

ORACLE[®]

PRIMAVERA

**Gateway Upgrade Guide
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Overview

The *Primavera Gateway Upgrade Guide* describes how to:

- ▶ Download the Primavera Gateway application
- ▶ Perform an automated upgrade using the wizard
- ▶ Configure Primavera Gateway components

This guide is intended for IT professionals who are installing and configuring the server environment for Primavera Gateway and who are supporting Primavera Gateway users. For the full list of system requirements and versions, see the *Primavera Gateway Tested Configurations* document.

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Downloading Primavera Gateway



To download Primavera Gateway:

- 1) Go to the Oracle Software Delivery Cloud.
- 2) Download Primavera Gateway and extract the file content to the following folders:
 - ▶ Disk1
 - ▶ gatewayapiclient
 - ▶ GatewayUtility
 - ▶ script
- 3) Go to the location where you extracted the contents and run the following:
If you are installing on a Microsoft Windows system, double-click and run **setup.exe** from the following directory:
 - ▶ Windows 64-bit: Double-click **setup.exe** file from the **win64\Disk1\install** directoryIf you are installing on a Linux or Solaris system, execute **./runInstaller.sh** from the following directories:
Give execute permission to run the installer using the syntax: **chmod 755 <file name>**
 - ▶ Linux 64-bit: Execute **./runInstaller.sh** file from the **linux64/Disk1/install** directory
 - ▶ Solaris 64-bit: Execute **./runInstaller.sh** file from the **solaris64/Disk1/install** directory

Installation Prerequisites

Review the following prerequisites before installing and configuring Primavera Gateway.

Notes:

-  Oracle recommends using strong passwords. Strong passwords in Primavera Gateway are defined as passwords containing between 8 and 20 characters and at least one numeric and one alpha character. To further strengthen the password, use a mixture of upper and lower case letters.
 -  For security reasons, Oracle strongly recommends that you replace the default database users' passwords immediately after a manual database installation or an upgrade. Do not use special characters in the database name, for example: { } [] : ; < > , . ? ! @ # \$ % ^ & * () - _ | / \ ~ ` _
-

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Installing the Oracle Database

You must install the Oracle database server before you can install the Primavera Gateway database. Your Oracle account representative is always your best source for licensing details. For supported versions of the database, see the *Tested Configurations* document.

Notes:

- You must install Oracle Multimedia, along with these supporting components: Oracle JVM, Oracle XML DB (XDB), and XML Developer's Kit (XDK). Unless you specify otherwise, all these components automatically get installed with the latest versions of the supported Oracle database. If you chose not to install these components, you will need to install them before you install Primavera Gateway. See the *Oracle Multimedia's User's Guide* on the Oracle Technology Network (OTN) for information on how to install these components.
- Oracle Text is a required component of Oracle Database.
- You must use UTF8 encoding to support Primavera Gateway's localized user interface.

Installing Supported JDK

Install and configure Oracle JDK as follows:

- 1) Download the supported version of Oracle JDK from Oracle website. For supported versions of Java, see the *Tested Configurations* document.
- 2) Set the JAVA_HOME and Path environment variables as follows:
 - ▶ On Windows, set the **JAVA_HOME** and **Path** environment variables to the installed Java location.
 - ▶ On Linux and Solaris, export **JAVA_HOME** variable to installed java location, and update the **PATH** variable with the **Java_Home/bin** path.
- 3) Ensure java -version command shows the correct java version in the console.

Installing WebLogic

You will need to install WebLogic to deploy Primavera Gateway. For supported versions, see the *Tested Configurations* document. Also, consult WebLogic's documentation for installation instructions.

Note: On Windows, Oracle recommends you install the application server to a folder with a short name.

Installing Oracle Fusion Middleware Infrastructure (WebLogic 12c Only)

You must run Oracle Fusion Middleware's **fmw_infra_<version>.jar** executable only if you are installing Primavera Gateway on a Managed server.

Notes:

- Do **not** install Oracle Fusion Middleware if you are installing Primavera Gateway on an Admin server.
 - Rename the derby.jar file to prevent the derby server from startup when Primavera Gateway is restarted.
-

Oracle Fusion Middleware installs specific files that WebLogic 12c needs to work with Primavera Gateway. This file is part of Application Development Runtime. See the *Tested Configurations* document for supported versions.

These files ensure that the correct templates are used when creating or extending a WebLogic domain. It will also download the Repository Creation Utility (RCU), which you will run later.

Note: Specify the WebLogic home as the Oracle Home for this installation.

Now proceed to run the RCU.

Running the Repository Creation Utility (RCU)

Oracle Web Services Manager (OWSM) authentication is required to support external REST service authentication in Primavera Gateway. To install the schemas needed to support OWSM authentication, you will need to run the Repository Creation Utility (RCU).

To run the RCU:

- ▶ For Windows installations, run **rcu.bat**.
 - ▶ For Linux and Solaris installations, run **./rcu.sh**
- 1) Go to the location where RCU was installed after you ran the **fmw_infra_<version>.jar**. For example, C:\oracle\Middleware\Oracle_Home.

Note: Edit the **RCU.bat (.sh)** file located under <Weblogic-home>/oracle_common/bin folder to ensure that the ORACLE_HOME is set to the Middleware path (Not database). For example,

```
SET
ORACLE_HOME=ORACLE_HOME=C:\Oracle\Middleware\Oracle_Home
```

- 2) On the **Welcome** screen, select **Next**.

Note: Click **Next** on each screen to advance to the next step.

- 3) On the **Create Repository** screen, select **Create Repository** and **System Load and Product Load**.
- 4) On the **Database Connection Details** screen, enter the following details:
 - ▶ **Database Type:** Select Oracle Database.
 - ▶ **Host Name:** The host name or the server IP address for the Primavera Gateway database.
 - ▶ **Port:** A unique port number for the Gateway database schema. Port number **1521** displays by default.
 - ▶ **Service Name:** The global database name. For example, orcl.us.oracle.com.
 - ▶ **Username:** The user name with DBA privileges who can install a schema.
 - ▶ **Password:** The password for user name provided above.

- ▶ **Role:** Role of the user who will be creating the MDS schema. Select **SYSDBA**.
- 5) On the **Select Components** screen:
 - a. Choose a new prefix. Make a note of the prefix you choose. This information is required when you run the Gateway install wizard.
 - b. In the **Components** section, select the following:
 - **Metadata Services**
 - **Audit Services**
 - **Audit Services Append**
 - **Audit Services Viewer**
 - **Oracle Platform Security Services**
 - **Common Infrastructure Services**
 - 6) On the **Schema Passwords** screen, select, **One password for all components** method for handling your passwords. Make note of the password you use.
 - 7) On the **Map Tablespaces** screen, select the defaults. Make notes of your selections.
 - 8) On the **Summary** screen, review your selected installation options and select **Create**.
 - 9) When the wizard is finished, click **Close**.

Installing the Primavera Application Database

Gateway supports integration with the following Primavera applications:

- ▶ P6 Enterprise Project Portfolio Management (P6 EPPM)

Note: When you run Primavera Gateway, and connect to a P6 EPPM database, information about your P6 EPPM installation is needed when you install the P6 Adapter.

- ▶ Oracle Primavera Prime
- ▶ Primavera Unifier
- ▶ Oracle Instantis EnterpriseTrack

To connect with any of the above applications using Gateway, you will need to install the relevant product and database. For detailed installation instructions, go to <http://www.oracle.com/technetwork/apps-tech/primavera/documentation/index.html>.

Installing the P6 Adapter

If you want to integrate with P6 EPPM, Primavera Gateway requires you to install the P6 Adapter. See the *Installing and Configuring the P6 Adapter* document in the P6 EPPM documentation library for more information about deploying and configuring the P6 Adapter.

Downloading Third-Party Providers

If you want to integrate with any third party enterprise application, download the necessary third-party provider files that needs to be installed in Primavera Gateway to a separate folder location. You will need to specify this folder location in the **Select Third-Party Providers** screen when you install Primavera Gateway using the installation wizard.

Execute a Manual Script Before Installation

Before running the install wizard, execute a manual script:

- 1) From the command line, execute:

```
sqlplus <sysdba_username>/<sysdba_password>@<SID> as sysdba
```

Where:

<sysdba_username> is a sysdba user name (sys by default)

<sysdba_password> is a sysdba password

<SID> is a SID of the Oracle database instance

For example, sqlplus sys/myPassword@ORCL as sysdba

Note: The command will be different if you are connecting from the host other than the host where the database is installed, or connecting to the database using a service name.

- 2) At the SQL prompt, execute:

```
SQL>@<path>\manual_script_before_install.sql
```

Where, <path> is an absolute path to the directory where the script is located.

For example,

On Windows: If the installer is located in c:\installer\win64, the command to execute the script will be

```
@C:\install\win64\script\manual_script_before_install.sql
```

On Linux: If the installer is located in /home/user/installer/linux64, the command to execute the script will be

```
~/home/user/installer/linux64/script/manual_script_before_install.sql
```

On Solaris: If the installer is located in /home/user/installer/solaris64, the command to execute the script will be

```
~/home/user/installer/solaris64/script/manual_script_before_install.sql
```

This script grants sys.DBMS_REPUTIL privileges to the system user which will be validated during database installation.

Upgrading Primavera Gateway

Primavera Gateway upgrade will only upgrade the Gateway database not the existing installation or domain. You will need to install Primavera Gateway application in a new directory and deploy to a new domain (or manually update the deployment).

Note: When the new domain is created by the installer the memory setting, users and other settings must be manually reset after installation. For example, if Gateway 1.0 has 2GB of memory, the installer will set 1GB and it must be modified manually to 2GB after the installation. Similarly with Gateway users, LDAP settings, and HTTPS settings.

For Linux and Solaris Installations

- 1) Give execute permission to run the installer using the syntax: **chmod 755 <file name>**
- 2) Depending on the operating system, execute **./runInstaller.sh** or **setup.exe**:
 - ▶ **Linux 64-bit:** Execute **./runInstaller.sh** file from the **linux64/Disk1/install** directory
 - ▶ **Solaris 64-bit:** Execute **./runInstaller.sh** file from the **solaris64/Disk1/install** directory
 - ▶ **Windows 64-bit:** Double-click **setup.exe** file from the **win64\Disk1\install** directory

To upgrade Primavera Gateway database, run the Gateway installer selecting the following options in the installation sequence:

- 1) On the **Welcome** screen, select **Next**.
- 2) On the **Specify Installation Location** screen, enter the following information:
 - ▶ **Primavera Home:** Enter the path and directory or select **Browse** to select the directory and path for installing Primavera Gateway.
For Windows installations, the default Primavera home installation location is **C:\PrimaveraGateway**.
For Linux installations, the default Primavera home installation location is **/home/<User ID>/PrimaveraGateway**.
For Solaris installations, the default Primavera home installation location is **/home/<User ID>/PrimaveraGateway**.
- 3) On the **Specify Database Installation** screen, select **Use Existing Database**.
- 4) On the **Database Connection Details** screen, provide the following database connection details:
 - ▶ **Database Host Address:** Enter the host name or the server IP address for the Primavera Gateway database.
 - ▶ **Database Host Port:** Enter a unique port number for the Gateway database schema. Port number **1521** displays by default.
 - ▶ **Database Name:** Enter the database name to connect with the Gateway database. By default, **orcl**. Select **Service** to deploy Gateway in a Managed server.
 - **SID:** Select this option to connect to the database using the system identifier.

- **Service:** Select this option to connect to the database using a service name.
 - ▶ **Schema Owner:** Enter the name of the Primavera Gateway database schema owner.
 - ▶ **Schema Password:** Enter a case-sensitive password for the schema owner.
 - ▶ **DBA User Name:** Enter the user name of the Oracle database administrator.
 - ▶ **DBA Password:** Enter the password of the Oracle database administrator.
 - ▶ Select the **Test Connection** button to check for database connectivity. If the test is successful, the following message displays: *Connection is successful*. If the test is not successful, check the port number specified, schema user ID and case-sensitive password combination, SID or Service value, and the database host address.
- 5) On the **Select Installation Type** screen, select the **Install and Configure Primavera Gateway** option.
- 6) Select **Yes** to the **Database Version Warning** message: *The existing database schema uses an old Gateway database version. If you continue, the database will be upgraded to the latest version. Do you want to continue?*
- 7) On the **Specify Middleware Location** screen, enter the following information regarding the WebLogic installation:
- ▶ **Oracle Middleware Home:** Enter or select **Browse** to navigate the path and locate the Middleware folder.
 - ▶ **WebLogic Server Directory:** Enter or select **Browse** to navigate the path and locate the WebLogic server directory. For example, C:\<WebLogic_Home>\wserver.
 - ▶ **Domain Location:** Enter or select **Browse** to navigate and locate the WebLogic domain folder. For example, C:\<WL_Server_Home>\wl1213\user_projects\domains.
- 8) On the **New Domain Details** screen, enter the following information to create the WebLogic domain for Primavera Gateway:
- ▶ **Administrator User Name:** Enter a name for the WebLogic domain administrator.
 - ▶ **Administrator User Password:** Enter an alphanumeric password of at least 8 characters for the WebLogic domain administrator. Passwords may contain the following special characters: underscore (_), dollar (\$), or pound (#).

Note: Make a note of the domain administrator's user name and password.

- ▶ **Confirm Password:** Re-enter the case-sensitive password.
- ▶ **Domain Name:** Enter a new WebLogic domain name for Primavera Gateway. For example, PrimaveraGateway. The installer will create a sub-folder with this domain name under the domain location folder provided on the previous screen.
- ▶ **Administrator Server Port:** Enter a unique port number for the new domain.
- ▶ **Managed Server Deployment:** Select this option to deploy Primavera Gateway in a Managed server. Also specify a database service name in the **Database Connection Details** screen.
 - **Managed Server Port:** Enter a unique port number for the Managed server.
 - **Node Manager Port:** The port number **5556** displays by default. For more details see the topic, *(Optional) Changing the Default Node Manager Port Number* (on page 21).

- 9) On the **Gateway Administrator Details** screen, create a user profile for a Primavera Gateway administrator as follows:
- ▶ **Gateway Administrator User Name:** Enter a name for the Primavera Gateway administrator. The admin user, **GatewayAdmin**, displays by default.
 - ▶ **Gateway Administrator Password:** Enter an alphanumeric password of at least 8 characters for the Primavera Gateway administrator.
 - ▶ **Confirm Password:** Re-enter the case-sensitive password.
- 10) On the **Specify Java Development Kit Location** screen, enter the following information:
- ▶ **Java Home Directory:** Enter or select **Browse** to locate the JAVA_HOME location that will be used by the WebLogic domain. The JAVA_HOME location displays by default. Java 1.7.0_75 or later is required.

Note: Refer to the *Tested Configurations* document for supported versions of JDK.

- 11) On the **Install Primavera Providers** screen, the following Primavera providers will be installed by default:
- ▶ EnterpriseTrack
 - ▶ P6
 - ▶ Prime
 - ▶ Unifier

Select the **Restore Providers** button to restore all primavera providers in the displayed list.

Select the **Remove Provider** button to remove a selected provider from the displayed list.

- 12) On the **Select Third Party Providers** screen, select the providers you wish to install.
- ▶ **Primavera's Sample Provider:** Select this option to install the Primavera sample provider packaged with Gateway. This option is selected by default.
 - ▶ **Third-Party Providers:** Select this option to add or delete alternative third-party providers.
 - Select the **Add Provider** button to navigate and locate the home directory for each third-party provider. Ensure that the **lib** sub-folder includes the provider's jar file, the **data** sub-folder includes the metadata xml files. The optional **supplement** sub-folder can contain any additional files. Folder names are case-sensitive.
 - Select the **Delete Provider** button to delete a selected third-party provider from the displayed list.

- 13) Select all other installation options as needed and click **Finish**.

- 14) Manually configure and restore the domain for the following if the settings were changed from the defaults in the previous domain:

- ▶ Recreate Gateway users in the three user role groups: **PrimaveraGatewayAdmin**, **PrimaveraGatewayDeveloper**, **PrimaveraGatewayUser**
- ▶ Restore JVM memory setting by editing
`<Primavera_Gateway_Home>\wlst\setGatewayMemory.cmd (.sh)`
- ▶ HTTPS Settings
- ▶ LDAP Configurations in the Weblogic administrative console of the Gateway domain

- ▶ Reinstall customizations using the Gateway configuration utilities in the `<Primavera_Gateway_Home>\snapshots\dbsetup-dist` folder

Using the Gateway Configuration Utilities

The following configuration utilities are provided in Primavera Gateway. Run each utility for the purpose described below:

- ▶ **Gateway-P6Setup:** Run this utility to add User Defined Fields (UDFs) and codes to P6 EPPM.

Access the Gateway-P6Setup utility from the `<Primavera_Gateway_Home>\pd\snapshots\dbsetup-dist` folder or the `<INSTALLER_FOLDER>\GatewayUtility` folder.

- ▶ **Gateway-Configuration:** Run this utility to manage metadata, and add or remove providers and customizations.

The following configuration options are available:

- ▶ Manage Gateway metadata
- ▶ Manage providers
- ▶ Manage customizations

Access the Gateway-Configuration utility from the `<Primavera_Gateway_Home>\pd\snapshots\dbsetup-dist` folder or the `<INSTALLER_FOLDER>\GatewayUtility` folder.

Note: Before executing the utilities on Windows, Linux, or Solaris, ensure the following:

- The **bin** folder of the supported Java JDK is included in the PATH.
 - If there are other JDK bin folders in the PATH, then the supported Java JDK should be listed first.
-

Adding User-Defined Fields (UDFs) and Codes to P6 EPPM

You have the option to add User-Defined Fields (UDFs) and codes to P6 EPPM and to prepare the P6 EPPM database for synchronizing the data. Use this procedure to also add UDFs and codes from Oracle Primavera Prime, Primavera Unifier, to P6 EPPM.

For example, if your application has UDFs or codes that P6 EPPM does not have, you can add these UDFs or codes using an XML file that you edit and then point to it in the Gateway Configuration utility. The XML file needs to conform to the DataConfiguration.xsd schema. For more information on the DataConfiguration.xsd schema, see the *Primavera Gateway Developer's Guide*.

To add your application UDFs or codes to P6 EPPM:

- 1) Ensure that your **JAVA_HOME** variable is pointing to a supported JDK folder.

Note: Ensure the following:

- The **bin** folder of the supported Java JDK is included in the PATH.
- If there are other JDK bin folders in the PATH, it should be listed first.

- 2) Navigate to the **<Primavera_Gateway_Home>/pdi/snapshots/dbsetup-dist** folder.
- 3) If you are installing on a non-Microsoft Windows system, type the following command to give execute permission for the utility:
chmod 755 Gateway-P6Setup.sh
- 4) Run the following command:
 - ▶ For Windows installation, run **Gateway-P6Setup.bat**
 - ▶ For Linux and Solaris installations, run **./Gateway-P6Setup.sh**
- 5) Enter the following information in the **Primavera P6 Data Setup Utility** dialog box:
 - a. In the **P6 Admin User Name** field, enter the user name of a user who has admin privileges on the P6 deployment.
 - b. In the **P6 Admin Password** field, enter the password of the admin user.
 - c. In the **P6 Adapter Endpoint URL** field, enter the address of the **SyncServiceV1 wsdl** file that is served by the P6 adapter you deployed as a prerequisite. This address would follow the format:
<protocol>://<hostname>:<port number>/p6adapter/services/SyncServiceV1?wsdl
 - d. In the **P6 database instance ID**, enter the system ID (SID) for the P6 database instance.
 - e. In the **P6 Data XML File Path**, enter or select **Browse** to specify the path to the XML file that you modified with the UDFs or codes which you want to add to P6 EPPM.
For a P6 EPPM with Sample provider integration, ensure you have installed the Sample provider, and now select the **SampleP6DataSetup.xml** in the **<Primavera_Gateway_Home>\sample\sampleprovider\data\p6data** folder. The path you enter must be the absolute path to the file.
For a P6 EPPM with Oracle Primavera Prime integration, select the **PrimeP6DataSetup.xml** file in the **<Primavera_Gateway_Home>\primeprovider\data\p6data** folder. The path you enter must be the absolute path to the file.
For a P6 EPPM with Primavera Unifier integration, locate the **UnifierP6DataSetup.xml** file for the Unifier provider. The path you enter must be the absolute path to the file.
For a P6 EPPM with any third-party enterprise application integration, select the relevant **<third-party provider P6datasetup>XML** file from the **data** folder. The path you enter must be the absolute path to the file.
 - f. Select **Run**. The UDFs or codes will be imported into the P6 EPPM deployment you selected.
 - g. Select **Finish** to close the utility.

Adding P6 User-Defined Fields and Codes to Providers

To have additional P6 UDFs and codes available for synchronization and field mapping templates for a selected provider, the UDFs and codes must be included in the:

- ▶ metadata.xml
- ▶ P6ExtraMetaData.xml
- ▶ PDIExtraMetaData.xml

Adding P6 UDFs and Codes to the Sample Provider

Add UDFs or codes in the P6ExtraMetaData and PDIExtraMetaData files in the **<Primavera_Gateway_Home>\sample\sampleprovider\data\p6** folder.

Adding P6 UDFs and Codes to the Prime Provider

Add UDFs or codes in the P6ExtraMetaData and PDIExtraMetaData file in the **<Primavera_Gateway_Home>\primeprovider\data** folder.

Adding P6 UDFs and Codes to the Unifier Provider

Add UDFs or codes in the PDIExtraMetaData.xml file in the **<Primavera_Gateway_Home>\unifierprovider\data** folder.

Adding P6 UDFs and Codes for Third-party Providers

For all third-party providers, add UDFs or codes in the P6ExtraMetaData.xml and PDIExtraMetaData.xml files located under the **data** folder of the third-party provider.

Note: Ensure that **P6data** folder is listed before the third-party provider folders. Otherwise the third-party provider fails to load.

Adding or Removing Providers

To add or remove providers, including Primavera providers, to Primavera Gateway:

- 1) Stop the Gateway domain before adding or removing providers or customizations.
- 2) Ensure the following:
 - ▶ The **bin** folder of the supported Java JDK is included in the PATH.
 - ▶ If there are other JDK bin folders in the PATH, they should be listed first.
- 3) Navigate to the **<Primavera_Gateway_Home>/pdi/snapshots/dbsetup-dist** folder.
- 4) If you are installing on a non-Microsoft Windows system, type the following command:
chmod 755 Gateway-Configuration.sh
- 5) Run the following command:
 - ▶ For Windows installations, run **Gateway-Configuration.bat**
 - ▶ For Linux and Solaris installations, run **./Gateway-Configuration.sh**.
- 6) In the **Primavera Gateway Configuration Utility** dialog box, enter the following information:
 - a. Select **Manage Providers**, and click **Next**.
Selecting this option updates the pdi.ear file and the Gateway database with custom metadata from the XML files.
 - b. In the **Select Gateway ear file (pdi.ear) location**, enter or click **Browse** to locate the .ear file.
 - c. In the **Gateway domain location** field, enter or click **Browse** to specify the Gateway domain.

- d. In the **Installed Gateway Providers** field, review the list of providers displayed and perform any of the following actions:
 - To add a provider, click **Add Provider Location**, and navigate to the location of the provider.
 - To remove a provider listed in the Gateway user interface, select the provider and click **Remove**.
 - To delete a provider from the database and the pdi.ear file, select the **Delete** option and click **Remove**.
- 7) Enter the following database connection details:
 - a. In the **DBA User Name** field, enter the name of the database administrator.
 - b. In the **DBA Password** field, enter the password for the database administrator.
 - c. In the **Database Host** field, enter the host name of the Oracle database on which you will be updating the Primavera Gateway database.
 - d. In the **Database Host Port** field, enter or verify the port number of the Oracle database.
 - e. In the **Database Name** field, enter the Gateway database name and select any of the following methods to connect to the database.
 - In the **SID** field, enter the SID of the Oracle database.
 - In the **Service** field, enter the service name of the Oracle database.
 - f. In the **Schema Owner** field, enter the database user name to be used for the Primavera Gateway database. (This name should match the **Schema Owner** name when you installed Primavera Gateway.)
 - g. In the **Schema Password** field, enter the database password to be used for the Primavera Gateway database.
 - h. Select **Test Connection**. Modify the applicable fields if the connection fails and repeat as necessary.
 - i. Click **Update**. The status field displays a success message.
 - j. Click **Finish** to exit the configuration utility.

Note: Redeploy pdi.ear to ensure the changes are reflected in Primavera Gateway.

Adding or Removing Customizations

Use this procedure if a customization includes include XML files, jar files, and other files such as Java customization. If you have installed Gateway on a managed server, see **Supporting Java Customization on a Managed Server** (on page 21) for more details.

Note: If a customization does not include any jar files, and uses Groovy customization, then upload the XML file from the Gateway user interface.

To add or remove customization files in Gateway:

- 1) Stop the Gateway domain before adding or removing providers or customizations.
- 2) Ensure the following:

- ▶ The **bin** folder of the supported Java JDK is included in the PATH.
 - ▶ If there are other JDK bin folders in the PATH, it should be listed first.
- 3) Navigate to the **<Primavera_Gateway_Home>/pdi/snapshots/dbsetup-dist** folder.
 - 4) If you are installing on a non-Microsoft Windows system, type the following command for execute privileges:
chmod 755 Gateway-Configuration.sh
 - 5) Run the following command:
 - ▶ For Windows installations, run **Gateway-Configuration.bat**
 - ▶ For Linux and Solaris installations, run **./Gateway-Configuration.sh**
 - 6) In the **Primavera Gateway Configuration Utility** dialog box, enter the following information:
 - a. Select **Manage Customizations**, and select **Next**.
Selecting this option updates the pdi.ear file and the Gateway database with custom metadata from the customization XML files.
 - b. In the **Select Gateway ear file (pdi.ear) location**, enter or select **Browse** to locate the .ear file.
 - c. In the **Installed Gateway Customizations** field, review the list of customization files displayed in the dialog box, and perform any of the following actions:
 - To add a customization, select **Add Customization**, and navigate to the folder location of the customization file.
 - To remove a customization from the list, select a specific customization, and select **Remove**.
 - To delete a customization from the database and the pdi.ear file, select the **Delete** option and select **Remove**.
 - 7) Enter the following database connection details:
 - ▶ **DBA User Name:** Enter the name of the database administrator.
 - ▶ **DBA Password:** Enter the password for the database administrator.
 - ▶ **Database Host:** Enter the host name of the Oracle database on which you will be updating the Primavera Gateway database.
 - ▶ **Database Host Port:** Enter the port number of the Oracle database.
 - ▶ **Database Name:** Enter the Gateway database name and select any of the following methods to connect to the database.
 - **SID:** Enter the SID of the Oracle database.
 - **Service:** Enter the service name of the Oracle database.
 - ▶ **Schema Owner:** Enter the name of Gateway schema owner. (This name should match the name that was entered when you installed Primavera Gateway.)
 - ▶ **Schema Password:** Enter the password for the schema owner.
 - ▶ Select **Test Connection**. Modify the applicable fields if the connection fails and repeat as necessary.
 - ▶ Select **Update**. The status field displays a success message.
 - ▶ Select **Finish** to exit the configuration utility.

Supporting Java Customization on a Managed Server

If you have installed Gateway on a **managed server**, complete the following steps to ensure Java customization is supported:

- 1) Log in to the WebLogic Administration console for Gateway.
- 2) Select **pdi.ear** in **Deployments** tab and stop the deployment.
- 3) Select **Lock & Edit** in the left pane and select **pdi.ear** in **Deployments** tab.
- 4) Select **Update** to update pdi.ear for the managed server.
- 5) Save the changes from the left pane (Activate Changes)
- 6) Restart **pdi.ear** deployment.

(Optional) Changing the Default Node Manager Port Number

To specify an alternative Node Manager port number from the default, 5556:

- 1) Stop Gateway and the Node Manager.
- 2) Modify ListenPort in <Gateway_Domain>\config\config.xml.
- 3) Modify ListenPort in <Gateway_Domain>\nodemanager\nodemanager.properties.
- 4) Modify nodeManagerPort in <Gateway_Home>\wlst\primavera.properties.
- 5) Start Gateway.

Updating the Existing Domain with Server Group Information (WebLogic 12c)

If you have installed Primavera Gateway on a Managed server with OWSM, you will need to update the existing Gateway domain with server group information as follows:

- 1) Go to <WebLogic_Server_Path>/common/bin directory
- 2) Depending on the operating system, run the following script:
On Windows: Run config.cmd
On Linux or Solaris: Run config.sh

- 3) On the **Update Domain** screen:
 - ▶ Select **Update an existing domain**.
 - ▶ In the **Domain Location** field, enter or select Browse... and locate the Gateway domain to be updated.

Note: Select **Next** to advance to the next step.

- 4) On the **Advanced Configuration** screen, select **Managed Servers, Clusters and Coherence**.
- 5) On the **Managed Servers** screen, select **Managed Server** from the list and expand the drop-down list in the **Server Groups** column. Select the following options:
 - ▶ **JRF-MAN-SVR**
 - ▶ **WSM-CACHE-SVR**
 - ▶ **WSMPM-MAN-SVR**
- 6) On the **Configuration Summary** screen, select **Update**.

Uninstalling Primavera Gateway

Uninstall Primavera Gateway as follows:

- 1) Invoke the Uninstall wizard as follows:
 - ▶ For Windows, from the **Start** menu, select **Programs, Oracle-Primavera Gateway, Uninstall Primavera Gateway**.
 - ▶ For Linux and Solaris, execute the following commands:
cd <GatewayHome>/oui/bin
./runInstaller -deinstall
- 2) On the **Welcome** screen, click **Next**.
- 3) On the **Deinstall Oracle Home** screen, click **Deinstall**.
- 4) On the **Deinstallation Progress** screen select any of the following buttons to confirm the uninstall:
 - ▶ Click **Yes** to uninstall Primavera Gateway.
 - ▶ Click **No** to uninstall Primavera Gateway without deleting the Oracle Home directory.
- 5) On the **Deinstallation Complete** screen, click **Finish** to exit the wizard.
- 6) For Windows, from the **Start** menu, select **Programs, Oracle WebLogic**, and then **User Projects** and delete the Gateway domain that was created at installation.
- 7) Delete the Gateway domain folder from the **<WebLogic_HOME>/user_projects/domains** directory.
- 8) (For Managed server only) Run the RCU utility to drop the repository.
- 9) Log in to the Oracle database and drop the Gateway schema user that was created at installation.
- 10) Delete the Primavera Gateway home folder that was created at installation.

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.

Title	Description
<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.


Title	Description
<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>

Title	Description
<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 EPPM</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 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</i>	Provides instructions on how to setup the integration environments for Oracle E-Business Suite with P6 Enterprise Project Portfolio Management and Instantis EnterpriseTrack 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>.

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Oracle Primavera Prime Gateway Upgrade Guide

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