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PRIMAVERA

**P6 Server Configuration Guide
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Contents

Configuring P6 and P6 Professional Cloud Connect	5
Creating the WebLogic Environment for P6	7
Prerequisites for P6 EPPM Configuration	8
Uninstalling Previous Versions of P6	8
Uninstalling P6 from Tomcat	9
Uninstalling P6 from Tomcat on Windows Platforms	9
Uninstalling P6 from Tomcat on UNIX Platforms	9
Uninstalling P6 from JBoss.....	9
Uninstalling P6 6.2.1 or Earlier from WebLogic	10
Uninstalling P6 7.0 or Later From WebLogic	10
Using Oracle Universal Installer to Uninstall P6	10
Deleting P6 from WebLogic.....	11
Uninstalling P6 Professional Cloud Connect from WebLogic.....	12
Using Oracle Universal Installer to Uninstall P6 Professional Cloud Connect.....	12
Deleting P6 Professional Cloud Connect from WebLogic	13
Installing Applications.....	14
JDK Installation	14
Installing WebLogic.....	14
P6 Installation	14
P6 Professional Cloud Connect Installation	14
P6 Help Directory Installation.....	15
User Productivity Kit (UPK).....	15
Configuring WebLogic for P6 EPPM.....	16
Creating a WebLogic Domain for P6.....	17
Starting and Stopping the Admin Server and Managed or Clustered Servers	20
Starting the WebLogic Admin Server for P6 EPPM.....	20
Starting WebLogic on Windows Platforms	20
Starting WebLogic	20
Stopping the WebLogic Admin Server for P6 EPPM.....	21
Stopping WebLogic on Windows Platforms	21
Stopping WebLogic for P6 EPPM Applications.....	21
Starting and Stopping Managed Servers	21
Starting a Managed or Clustered Server	22
Stopping a Managed or Clustered Server	23
Setting Arguments for P6	23
Setting Arguments in the WebLogic Administration Console	24
Starting WebLogic on Windows Platforms	24
Starting WebLogic	24

Starting a Managed or Clustered Server	25
Setting Arguments in the WebLogic Administration Console for P6	26
Editing the setDomainEnv File for P6	29
Deploying P6 in WebLogic	32
Adding P6 and P6 Professional Cloud Connect as WebLogic Applications	32
Starting the P6 Application in WebLogic	33
Where to Go From Here - Post Manual P6 and WebLogic Configuration	35
For More Information	36
Where to Get Documentation.....	36
Documentation Accessibility	36
Where to Get Training	36
Where to Get Support.....	37
Legal Notices	39

Configuring P6 and P6 Professional Cloud Connect

P6 is a web-based module you can use to view and update project, portfolio, and resource data across the enterprise. P6 connects to the P6 EPPM database via an application server.

This guide will tell you how to:

- ▶ Uninstall previous products and versions of P6 and P6 Professional Cloud Connect
- ▶ Configure the application server for P6
- ▶ Deploy P6 P6 Professional Cloud Connect

Before using this guide you will need to:

- ▶ Install the latest database. See the *P6 EPPM Manual Installation Guide* for your database.
- ▶ Install P6. See the *P6 EPPM Installation and Configuration Guide*.

After you have deployed P6, you can either use the *P6 EPPM System Administration Guide* for information on how to configure P6 or you can use the *P6 EPPM Application Administration Guide* to being using P6.

Tips

- ▶ If you have a high latency network, you may want to configure a front-end Web server for P6. On this Web server, set the Expires header (with the exception of .png files) to a larger value to improve performance.
- ▶ See information about client and server requirements in the *P6 EPPM Planning and Implementation Guide* for a list of supported application servers with version numbers. For a full list of tested configurations for the P6 server, see the *P6 EPPM Tested Configurations* document.

Creating the WebLogic Environment for P6

Oracle WebLogic is a supported application server for P6. Creating the WebLogic environment requires the following tasks:

- ▶ Installing the application server. See **Prerequisites for P6 EPPM Configuration** (on page 8).
- ▶ Installing the application. See the *P6 EPPM Installation and Configuration Guide*.
- ▶ Configuring the application server. See **Configuring WebLogic for P6 EPPM** (on page 16).
- ▶ Starting the application server. See **Starting the WebLogic Admin Server for P6 EPPM** (on page 20).
- ▶ Deploying the application in the WebLogic domain. See **Deploying P6 in WebLogic** (on page 32).

Tips

See the *P6 EPPM Planning and Implementation Guide* for a list of supported application servers with version numbers. For a full list of tested configurations for P6, see the *Tested Configurations* document.

In This Section

Prerequisites for P6 EPPM Configuration	8
Configuring WebLogic for P6 EPPM.....	16
Deploying P6 in WebLogic	32

Prerequisites for P6 EPPM Configuration

Review the prerequisites before configuring any P6 EPPM applications.

Uninstalling Previous Versions of P6

You must uninstall any previous versions of P6 before upgrading to the latest version of P6.

Cautions:

- Before upgrading P6, you should upgrade the P6 EPPM database to the current version. See *P6 EPPM Upgrade and Configuration Guide* or *P6 EPPM Manual Upgrade Guide* for your database for details on how to upgrade your database and for information on potential impact areas to your environment. For the full list of tested configurations for P6, go to the \Documentation\<language>\Tested_Configurations folder of the P6 EPPM physical media or download.
- ▶ If you are a current Apache JackRabbit user and want to upgrade to the latest version of P6 EPPM, JackRabbit documents data will not migrate automatically. Refer to My Oracle Support's Knowledge Articles for information on manually migrating JackRabbit documents to Oracle Universal Content Management. Oracle recommends that you migrate the data before upgrading.
- ▶ If you are a current jBPM user and want to upgrade P6 EPPM, workflows and reviews data will not be available. You should close all workflows and reviews that are in progress before upgrading. You cannot migrate any of this data to the latest version of P6 EPPM.
- ▶ Starting with P6 EPPM R8, all recurring job service functions are hosted by P6. Due to this change, after upgrading to P6 EPPM R8 or later, you must configure Scheduled Services settings in the Primavera P6 Administrator to use this functionality. Also, if you're upgrading from version 7.0 or earlier, you must RESUMMARIZE ALL PROJECTS to accurately reflect your summary data. See the *P6 EPPM System Administration Guide* for information on Scheduled Services and configuring separate servers for job services.

Tips

- ▶ For security reasons, Oracle strongly recommends that you replace the default Admin Superuser (admin) immediately after a manual database installation or an upgrade from P6 version 7.0 and earlier. See information about the Admin Superuser in the *P6 EPPM Application Administration Guide*.
- ▶ P6 EPPM does not support Summary-Only projects. During the P6 EPPM database upgrade, existing Summary-Only projects convert to standard projects, but lose all summary data. You can import the summary project from Microsoft Project into the converted blank project, then summarize the data. See the *P6 Professional Help* or the *P6 Help*.
- ▶ During the upgrade to the latest version of P6 EPPM, some P6 Activity Views settings will reset. After the upgrade, use the Customize Detail Windows feature to modify the settings that should appear for each view. See the *P6 Help* for information on how to edit Activity Views.

- ▶ Starting with P6 EPPM R8, P6 saves filter definitions globally. Filters still work for Activity Views, but all standard filter assignments reset during the upgrade. Due to this change, views that had Standard Filters applied will show all activities after the upgrade. Reapply filters after the upgrade finishes. See the *P6 Help* for information on how to edit Activity Views.

Uninstalling P6 from Tomcat

Follow the instructions below to uninstall Primavera's Web Application version 6.0 from a **Tomcat 5.5 Server**.

Note: Tomcat is not a supported application server for P6 version 6.1 and later.

Uninstalling P6 from Tomcat on Windows Platforms

To uninstall P6 from Tomcat on Windows platforms:

- 1) Go to the Start menu.
- 2) Choose Programs, <app name>, Uninstall <app name>.

Uninstalling P6 from Tomcat on UNIX Platforms

To uninstall P6 from Tomcat on UNIX platforms:

- 1) Change to the webapps directory under the Tomcat install directory.
- 2) Run the **uninstalltc.sh** script.

Uninstalling P6 from JBoss

To uninstall Primavera's Web Application 6.0 or P6 Web Access version 6.1 and later from a JBoss Server:

- 1) Go to the JBoss install location (for example, c:\jboss-5.0.1.GA-jdk6\server).
- 2) Delete the deployment folder for Primavera Web.
For 6.1 and earlier installations, the suggested folder name was "myprimavera."
For 6.2 and later installations, the suggested folder name was "primaveraweb."

Note: Starting with P6 R8, P6 no longer supports the JBoss application server.

Uninstalling P6 6.2.1 or Earlier from WebLogic

To uninstall Primavera's Web Application 6.0, P6 Web Access version 6.1 and later from the WebLogic Server:

- 1) Do one of the following:
 - ▶ On Windows platforms, from the Start menu, choose Programs, *app name*, Uninstall *app name*.
 - ▶ On Unix platforms, run the `uninstall.sh` script in the `weblogic_home/user_projects/domain` directory.

Note: When you delete a `p6.ear`, `p6help.war`, or a `P6Tutorials.war` file from WebLogic and then redeploy any of those files, check `weblogic_home\user_projects\domains\your_domain\config\` for a folder called "fmwconfig." If the folder is there, delete it.

- 2) If you will use the same *p6home* directory for the new deployment, delete the existing WAR or EAR file from that directory to avoid conflict with the new files.

Uninstalling P6 7.0 or Later From WebLogic

To uninstall P6 7.0 or later, you must uninstall it with the Oracle Universal Installer, then remove it from the application server.

Using Oracle Universal Installer to Uninstall P6

- 1) From the P6 EPPM folder of the physical media or download location, run one of the following depending on your system type:
 - ▶ If you are installing on a Microsoft Windows system, navigate to the `winDisk1\install` directory, and then double-click on the `setup.exe` file.
 - ▶ If you are installing on a non-Microsoft Windows system, type the following command:

```
cd Operating System/Disk1/install
```

Depending on your operating system, replace *Operating System* in the command above with `aix_64-5L`, `hp_64`, `hpux_IA64`, `linux`, or `solaris_64`, then type the following commands:

```
chmod 755 runInstaller
chmod 755 unzip
./runInstaller
```
- 2) On the **Welcome** screen, click **Deinstall Products**.
- 3) On the **Inventory** dialog box, under the **Contents** tab, select the P6 version you want to uninstall.
- 4) Click **Remove**.
- 5) On the **Confirmation** dialog box, click **Yes**.
- 6) Click **Close** then **Cancel** to exit the dialog box and Oracle Universal Installer.

Deleting P6 from WebLogic

To delete P6 from WebLogic:

Notes:

- If you are deleting a 7.x release, your deployment will say **primaveraweb** instead of **p6**.
 - If you are deleting an 8.x release, your deployment will say **p6**.
-

1) Launch the WebLogic **Administration Console**.

Note: You can open the Administration Console via a web browser using this address: `http://serverIP:listenport/console`. The default *listenport* is 7001.

- 2) In the **Welcome** window, log in using the user name and password that you created when you created your WebLogic domain.
- 3) In the **Change Center** pane of the Administration Console, click **Lock & Edit**.
- 4) In the **Domain Structure** pane, click **Deployments**.
- 5) In the **Summary of Deployments** pane, in the **Control** tab:
 - a. Select the option next to your deployment (for example, **p6**).
 - b. Click **Stop, Force Stop Now**.
- 6) On the **Force Stop Application Assistant** pane, click **Yes**.
- 7) In the **Summary of Deployments** pane, in the **Control** tab:
 - a. Ensure the **State** column shows **Prepared**.
 - b. Select the option next to your deployment (for example, **p6**).
 - c. Click **Delete**.
 - d. On the **Delete Application Assistant** pane, click **Yes**.
- 8) In the **Change Center** pane, click **Activate Changes**.
- 9) Logout of the **Administration Console**.
- 10) If you will use the same home directory for the new deployment, delete the existing WAR or EAR file from that directory to avoid conflict with the new files.
- 11) If you installed the help and tutorials WAR files, repeat these steps.

Uninstalling P6 Professional Cloud Connect from WebLogic

To uninstall P6 Professional Cloud Connect, you must uninstall it with the Oracle Universal Installer, then remove it from the application server.

Using Oracle Universal Installer to Uninstall P6 Professional Cloud Connect

1) From the P6 EPPM folder of the physical media or download location, run one of the following depending on your system type:

- ▶ If you are installing on a Microsoft Windows system, navigate to the **winDisk1\install** directory, and then double-click on the **setup.exe** file.
- ▶ If you are installing on a non-Microsoft Windows system, type the following command:

```
cd Operating System/Disk1/install
```

Depending on your operating system, replace *Operating System* in the command above with *aix_64-5L*, *hp_64*, *hpux_IA64*, *linux*, or *solaris_64*, then type the following commands:

```
chmod 755 runInstaller  
chmod 755 unzip  
./runInstaller
```

- 2) On the **Welcome** screen, click **Deinstall Products**.
- 3) On the **Inventory** dialog box, under the **Contents** tab, select the P6 Professional Cloud Connect version you want to uninstall.
- 4) Click **Remove**.
- 5) On the **Confirmation** dialog box, click **Yes**.
- 6) Click **Close** then **Cancel** to exit the dialog box and Oracle Universal Installer.

Deleting P6 Professional Cloud Connect from WebLogic

To delete P6 Professional Cloud Connect from WebLogic:

- 1) Launch the WebLogic **Administration Console**.

Note: You can open the Administration Console via a web browser using this address: `http://serverIP:listenport/console`. The default *listenport* is 7001.

- 2) In the **Welcome** window, log in using the user name and password that you created when you created your WebLogic domain.
- 3) In the **Change Center** pane of the Administration Console, click **Lock & Edit**.
- 4) In the **Domain Structure** pane, click **Deployments**.
- 5) In the **Summary of Deployments** pane, in the **Control** tab:
 - a. Select the option next to your deployment (for example, **p6procloudconnect**).
 - b. Click **Stop, Force Stop Now**.
- 6) On the **Force Stop Application Assistant** pane, click **Yes**.
- 7) In the **Summary of Deployments** pane, in the **Control** tab:
 - a. Ensure the **State** column shows **Prepared**.
 - b. Select the option next to your deployment (for example, **p6procloudconnect**).
 - c. Click **Delete**.
 - d. On the **Delete Application Assistant** pane, click **Yes**.
- 8) In the **Change Center** pane, click **Activate Changes**.
- 9) Logout of the **Administration Console**.
- 10) If you will use the same home directory for the new deployment, delete the existing WAR or EAR file from that directory to avoid conflict with the new files.
- 11) If you installed the help and tutorials WAR files, repeat these steps.

Installing Applications

Before you upgrade or install your application, install the products mentioned in the following sections.

JDK Installation

WebLogic Server requires that you have a Java Development Kit (JDK) installed on your machine. You must manually download and install the required JDK. For a list of supported JDK versions for P6 EPPM, see the *Tested Configurations* document. As new releases of the software become available, you can find them at <http://www.oracle.com/technetwork/java/archive-139210.html>.

Installing WebLogic

You will need to install WebLogic to deploy P6 EPPM. For supported versions, see the *Tested Configurations* document. For more information about how to install WebLogic, see the following URL: <http://www.oracle.com/technetwork/middleware/weblogic/documentation/index.html>

Note: Oracle recommends that you install Oracle Access Manager on a new WebLogic Middleware home.

If existing Middleware applications are installed into the Middleware home (for example, BI Publisher or Identity Management), Access Manager will fail to deploy.

Tips

After you finish installing WebLogic, ensure you can run the startNodeManager.cmd (with Windows) startNodeManager.sh (with UNIX or Linux) before installing P6 EPPM. If you cannot run this file, contact your WebLogic administrator for help.

P6 Installation

To install P6, run setup.exe (for Windows) runInstaller.sh (for Linux) from the **Primavera P6 Enterprise Project Portfolio Management <Release_Level> for <platform>\Disk1\Install** folder of the physical media or download. For more information on installing P6, see the *P6 EPPM Installation and Configuration Guide*.

P6 Professional Cloud Connect Installation

To install P6 Professional Cloud Connect, run the setup.exe file from the **Primavera P6 Enterprise Project Portfolio Management 16 R1 for <platform>\Disk1\Install** folder of the physical media or download. For more information on installing P6, see the *P6 EPPM Installation and Configuration Guide*.

P6 Help Directory Installation

You have two options for accessing P6 Help.

Use the Default P6 Help URL (Recommended)

The default URL will take you to the Oracle Technology Network (OTN) site. OTN houses Oracle's most up-to-date documentation. If there are any changes to P6 functionality, those changes will be in the help documentation on OTN.

The default P6 Help URL is in the Primavera P6 Administrator:

https://docs.oracle.com/cd/E68199_01/p6help/

Note: You can choose not to use the default help URL, but you will have to ensure you deploy it in your application server and enter the server URL into the Primavera P6 Administrator. If any updates are made to the help, these will not be visible if you are using the p6help.war file.

Use the P6 Help WAR File

You can download the online help WAR file from the following URL:

http://docs.oracle.com/cd/E68199_01/p6help/war/P6_Help.zip

Notes:

- For the P6 Help to launch, you must enter the server URL in the Primavera P6 Administrator. See the *P6 EPPM System Administration Guide* for more information.
 - Use the instructions for deploying P6 to deploy the help file.
-

Tips

If you receive a "server not found" or a similar error when accessing the P6 Help in P6, it means one of the following:

- ▶ The application server cannot access the Internet.
- ▶ The help site is not available.

If the application server cannot access the Internet, check your Primavera P6 Administrator settings and ensure they are configured to the correct URL.

If the URL is configured correctly, but you still can't access the P6 Help, you will need to use the local help (p6help.war). Use the instructions for deploying P6 to deploy the help file.

User Productivity Kit (UPK)

For UPK to launch, you must enter the server URL in the Primavera P6 Administrator. See *P6 EPPM System Administration Guide* for more information.

Configuring WebLogic for P6 EPPM

This section details the basic configuration steps for P6 EPPM applications in a WebLogic environment when opting for an Admin Server and Managed Server deployment.

Oracle recommends you create a Managed Server deployment. Each managed server requires exclusive access to their own rotating logfiles. If your managed and clustered servers are on the same machine, you must create a different P6 home folder for each managed server and then copy the `BREBootstrap` file into each folder. Each `BREBootstrap` file must then be edited to ensure the `logDir` setting is set to folder unique to each managed server. If your Admin, Managed, and clustered servers are all on the same machine, you will not need to copy the `BREBootstrap` file. This section assumes that you will be set up separate domains for your applications; however, you can create one domain and configure all P6 EPPM applications to run in this domain.

Although not required for the P6 EPPM server set up, WebLogic has additional settings that can be used to enhance the environment. For example, when using clustering, enabling the session replication setting will seamlessly transfer users to another server if a server shuts down unexpectedly.

If you want to set up the WebLogic Admin Server and Managed Servers to run as Windows Services, see WebLogic's documentation.

See WebLogic's documentation for details on all available configuration, deployment, and settings options.

Creating a WebLogic Domain for P6

To create a WebLogic Domain:

- 1) Run the WebLogic **Configuration Wizard**.
- 2) In the **Welcome** window:
 - a. Select **Create a new WebLogic domain**.
 - b. Click **Next**.
- 3) In the **Select Domain Source** window, click **Next** to accept the default selections.
- 4) In the **Specify Domain Name and Location**:
 - a. Enter the domain name.
 - b. Enter the domain location.
 - c. Click **Next**.
- 5) In the **Configure Administrator User Name and Password** window:
 - a. Enter the user name and password information.
 - b. Click **Next**.
- 6) In the **Configure Server Start Mode and JDK** window:
 - a. Select **Production Mode** in the left pane.
 - b. Select an appropriate JDK in the right pane.
 - c. Click **Next**.
- 7) In the **Select Optional Configuration** window:
 - a. Select the **Administration Server** and the **Managed Servers, Clusters and Machines** options.
 - b. Click **Next**.
- 8) (Optional) In the **Configure the Administration Server** window, select the SSL enabled option and set the SSL listen port if you are enabling Secure Sockets Layer communication. See http://download.oracle.com/docs/cd/E12840_01/wls/docs103/secmanage/ssl.html for more details on setting SSL for WebLogic.

Notes:

- Oracle recommends you always use SSL in a production environment for secure communications.
- Starting with P6 EPPM R8, HTTPS settings are available in the Primavera P6 Administrator. If you have set the HTTPS/Enabled setting to true, ensure that your application server or front-end Web server is listening on the specified HTTPS port. See the *P6 EPPM System Administration Guide* for more information on the HTTPS settings.

-
- 9) In the **Configure Managed Servers** window:
 - a. Click **Add**.
 - b. Enter the **Name** and select the **Listen address** information.
 - c. (Optional) Select the **SSL enabled** option and set the SSL listen port.

Note: Oracle recommends you always use SSL in a production environment for secure communications.

- d. (Optional) Add or delete other managed servers.
 - e. Click **Next**.
- 10) (Optional) In the **Configure Clusters** window:

Note: Do not add clusters if you are not using multiple WebLogic server instances for scalability.

- a. Click **Add**.
- b. (Required) Enter the name of the cluster.
- c. (Optional) Enter the following information: **Cluster messaging mode, Multicast address, Multicast port, Cluster address**.
- d. (Optional) Add or delete other configured clusters.
- e. Click **Next**.

Note: For information on setting up clusters, use Oracle's WebLogic Server documentation:
http://download.oracle.com/docs/cd/E11035_01/wls100/cluster/setup.html.

- 11) (Optional) In the **Assign Servers to Clusters** window, assign a server to a cluster.
- 12) Click **Next**.

Note: Select the Cluster in the right pane, then select the Server in the left pane. Assign the server to the cluster by clicking the right arrow button.

- 13) In the **Configure Machines** window:

- a. Select the **Machine** or **Unix Machine** tab.
- b. If you select the **Machine** tab:
 - 1. Click **Add**.
 - 2. (Required) Enter a machine name.
 - 3. (Optional) Select the **Node manager listen address** from the list.

Note: If you specify an address for a machine that hosts the Administration Server and you need to access the WebLogic Server Node Manager, you must disable the host name verification.

- 4. (Optional) Enter the **Node manager listen port**.
- 5. (Optional) Add or delete configured machines.
- c. If you select the **Unix Machine** tab:
 - 1. (Required) Enter a valid machine name.
 - 2. (Optional) Select the **Post bind GID enabled** option to enable a server running on this machine to bind to a UNIX group ID (GID) after it finishes all privileged startup actions.

3. (Optional) Enter the **Post bind GID** where a server on this machine will run after it finishes all privileged startup actions. If you do not enter a GID, the server will continue to run under the group where it was started. For this setting to work, you must select the **Post bind GID enabled** option.
 4. (Optional) Select the **Post bind UID enabled** option to enable a server running on this machine to bind to a UNIX user ID (UID) after it finishes all privileged startup actions.
 5. (Optional) Enter **Post bind UID** where a server on this machine will run after it finishes all privileged startup actions. If you do not enter a UID, the server will continue to run under the account where it was started. For this setting to work, you must select the **Post bind UID enabled** option.
 6. (Optional) Add or delete configured machines.
- d. Click **Next**.

Notes:

- You might want to create machine definitions for the following situations: (1) The Administration Server uses the machine definition, with the Node Manager application, to start remote servers. (2) WebLogic Server uses configured machine names when determining the server in a cluster that can handle certain tasks, such as HTTP session replication. The WebLogic Server then delegates those tasks to the identified server.
- You must configure machines for each product installation that runs a Node Manager process. The machine configuration must include values for the listen address and port number parameters.

14) In the **Assign Servers to Machines** window:

Note: A machine is a physical server that will host a WebLogic managed server. Depending on your resource needs and data load, the machines may be in the same physical server where the WebLogic Admin Server is installed or in separate physical servers.

- a. In the **Machine** list, select the machine where you want to assign a WebLogic Server instance.
 - b. Assign WebLogic Server instances to the selected machine.
The name of the WebLogic Server instance is removed from the **Server** list and added below the name of the target machine in the **Machine** list.
 - c. Repeat steps a and b for each WebLogic Server instance you want to assign to a machine.
 - d. Review the machine assignments.
If necessary, you can remove a WebLogic Server instance from a machine, and the WebLogic Server instance will be removed from the **Machine** list and restored to the **Server** list.
 - e. Click **Next**.
- 15) In the **Configuration Summary** window, click **Create**.
If given the option, you can click **Done** now. Otherwise, continue to the next step.

16) If you are using Windows, in the **Creating Domain** window:

- a. Select **Start Admin Server**.
- b. Click **Done**.

17) When prompted, enter the administrator user name and password that you entered above.

Starting and Stopping the Admin Server and Managed or Clustered Servers

To set arguments in the WebLogic Administration Console and deploy P6 EPPM applications in WebLogic, you will need to start the Admin Server and your Managed or clustered servers. This section also includes information on stopping your Admin Server and your Managed and clustered servers.

Starting the WebLogic Admin Server for P6 EPPM

Follow the instructions below to start the WebLogic Admin Server for P6 EPPM. You must perform these procedures to launch the WebLogic Administration Console. Once you launch the WebLogic Administration Console, you can follow the steps to set arguments and deploy P6 EPPM applications in WebLogic.

Starting WebLogic on Windows Platforms

To start WebLogic on Windows:

- 1) From the Start menu, navigate to the Oracle WebLogic submenu.
- 2) Choose User Projects, *domain*, Start Server.
- 3) If prompted for a user name and password in the WebLogic console window, type in the administrative user name and password you specified when creating the domain.

Note: If you turned on the WebLogic precompile option, the WebLogic console displays "Server started in RUNNING mode" when precompiling finishes. For detailed information about turning on precompilation, see your WebLogic Server documentation.

Starting WebLogic

To start WebLogic:

- 1) Navigate to the *weblogic_home/user_projects/domains/your_domain* directory.
- 2) Run the startWebLogic script.
 - ▶ **startWeblogic.cmd** on Windows machine
 - ▶ **startWeblogic.sh** on Unix machine
- 3) If prompted for a user name and password in the WebLogic console window, type in the administrative user name and password you specified when creating the domain.

Note: If you turned on the WebLogic precompile option, the WebLogic console displays "Server started in RUNNING mode" when precompiling finishes. For detailed information about turning on precompilation, see your WebLogic Server documentation.

Stopping the WebLogic Admin Server for P6 EPPM

When you are finished working in the WebLogic Administration Console, use the instructions below to stop the WebLogic Admin Server for P6 EPPM.

Stopping WebLogic on Windows Platforms

To stop WebLogic on Windows:

- 1) From the Start menu, navigate to the Oracle WebLogic submenu.
- 2) Choose User Projects, *domain*, Stop Server.
- 3) If prompted for a user name and password in the WebLogic console window, type in the administrative user name and password you specified when creating the domain.

Note: The WebLogic console window that opened when you started WebLogic will close automatically when it has shutdown.

Stopping WebLogic for P6 EPPM Applications

To stop WebLogic:

- 1) Navigate to `<weblogic_home>/user_projects/domain/your_domain/bin`.
- 2) Run the stopWebLogic script.
 - ▶ `stopWeblogic.cmd` on Windows machine
 - ▶ `stopWeblogic.sh` on Unix machine
- 3) If prompted for a user name and password in the WebLogic console window, type in the administrative user name and password you specified when creating the domain.

Note: The WebLogic console window that opened when you started WebLogic will close automatically when it has shutdown.

Starting and Stopping Managed Servers

You have several options for starting and stopping managed servers. Oracle recommends that you use the `startNodeManager` file and start the server in the WebLogic Administration Console (see **Starting a Managed or Clustered Server** (on page 22)). However, you can view other ways to stop and start managed servers at "Managing Server Startup and Shutdown for Oracle WebLogic Server" at http://download.oracle.com/docs/cd/E14571_01/web.1111/e13708/overview.htm.

Note: You can use different ways to start the managed servers, but you must ensure that the managed servers recognize the arguments required for your application (for example, the argument for where the bootstrap is located) and how the application environment will start.

Starting a Managed or Clustered Server

To start a managed or clustered server in the WebLogic Administration Console:

Note: When starting/stopping an environment using the node manager, the **StartScriptEnabled** setting in the **nodemanager.properties** file must equal true. Example: StartScriptEnabled=true

- 1) Run the **startNodeManager** file.
 - ▶ In Windows, the file is named "startNodeManager.cmd" and is located in:
`weblogic_home\server\bin`
 - ▶ With Unix or Linux, the file is named "startNodeManager.sh" and is located in:
`weblogic_home\server\bin`
- 2) Launch the WebLogic **Administration Console**.

Note: You can open the Administration Console via a web browser using this address: `http://serverIP:listenport/console`. The default *listenport* is 7001.

- 3) In the **Welcome** window, log in using the user name and password that you created when you created your WebLogic domain.
- 4) In the **Change Center** pane of the Administration Console, click **Lock & Edit**.
- 5) In the **Domain Structure** pane:
 - a. Expand **Environment**.
 - b. Click **Servers**.
- 6) In the **Summary of Servers** pane:
 - a. Select the **Control** tab.
 - b. Select the option for your managed server.
 - c. Click **Start**.
- 7) In the **Server Life Cycle Assistant** pane, click **Yes**.
- 8) In the **Summary of Servers** pane, click the 'Start Refresh' icon in the middle of the pane to see when the **State** column says 'RUNNING.'

Stopping a Managed or Clustered Server

Your managed or clustered server will stop running when you close the startNodeManager file. You can also stop the managed or clustered server in the WebLogic Administration Console.

- 1) Launch the WebLogic **Administration Console**.

Note: You can open the Administration Console via a web browser using this address: `http://serverIP:listenport/console`. The default `listenport` is 7001.

- 2) In the **Welcome** window, log in using the user name and password that you created when you created your WebLogic domain.
- 3) In the **Change Center** pane of the Administration Console, click **Lock & Edit**.
- 4) In the **Domain Structure** pane:
 - a. Expand **Environment**.
 - b. Click **Servers**.
- 5) In the **Summary of Servers** pane:
 - a. Select the **Control** tab.
 - b. Select the option for your managed server.
 - c. Click the down arrow to the right of the **Shutdown** button.
 - d. Click **When work completes** or **Force Shutdown Now**.
- 6) In the **Server Life Cycle Assistant** pane, click **Yes**.
- 7) In the **Summary of Servers** pane, click the 'Start Refresh' icon in the middle of the pane to see when the **State** column says 'SHUTDOWN.'

Setting Arguments for P6

If you use a Managed Server or cluster to deploy P6, follow the instructions in **Setting Arguments in the WebLogic Administration Console** (on page 24).

If you are using the Admin Server as the only place where you deploy P6, follow the instructions in **Editing the setDomainEnv File for P6** (on page 29).

Note: Oracle recommends that you use a Managed Server or cluster to deploy P6 instead of deploying P6 in the Admin Server.

Setting Arguments in the WebLogic Administration Console

Follow these steps to set arguments in the WebLogic Administration Console:

- 1) Start WebLogic. (See **Starting WebLogic on Windows Platforms** (on page 20) or **Starting WebLogic** (on page 20).)
- 2) Start your Managed Server. (See **Starting a Managed or Clustered Server** (on page 22).)
- 3) Set the arguments. (See **Setting Arguments in the WebLogic Administration Console for P6** (on page 26).)

Starting WebLogic on Windows Platforms

To start WebLogic on Windows:

- 1) From the Start menu, navigate to the Oracle WebLogic submenu.
- 2) Choose User Projects, *domain*, Start Server.
- 3) If prompted for a user name and password in the WebLogic console window, type in the administrative user name and password you specified when creating the domain.

Note: If you turned on the WebLogic precompile option, the WebLogic console displays "Server started in RUNNING mode" when precompiling finishes. For detailed information about turning on precompilation, see your WebLogic Server documentation.

Starting WebLogic

To start WebLogic:

- 1) Navigate to the *weblogic_home/user_projects/domains/your_domain* directory.
- 2) Run the startWebLogic script.
 - ▶ **startWeblogic.cmd** on Windows machine
 - ▶ **startWeblogic.sh** on Unix machine
- 3) If prompted for a user name and password in the WebLogic console window, type in the administrative user name and password you specified when creating the domain.

Note: If you turned on the WebLogic precompile option, the WebLogic console displays "Server started in RUNNING mode" when precompiling finishes. For detailed information about turning on precompilation, see your WebLogic Server documentation.

Starting a Managed or Clustered Server

To start a managed or clustered server in the WebLogic Administration Console:

Note: When starting/stopping an environment using the node manager, the **StartScriptEnabled** setting in the **nodemanager.properties** file must equal true. Example: StartScriptEnabled=true

- 1) Run the **startNodeManager** file.
 - ▶ In Windows, the file is named "startNodeManager.cmd" and is located in:
`weblogic_home\server\bin`
 - ▶ With Unix or Linux, the file is named "startNodeManager.sh" and is located in:
`weblogic_home\server\bin`
- 2) Launch the WebLogic **Administration Console**.

Note: You can open the Administration Console via a web browser using this address: `http://serverIP:listenport/console`. The default *listenport* is 7001.

- 3) In the **Welcome** window, log in using the user name and password that you created when you created your WebLogic domain.
- 4) In the **Change Center** pane of the Administration Console, click **Lock & Edit**.
- 5) In the **Domain Structure** pane:
 - a. Expand **Environment**.
 - b. Click **Servers**.
- 6) In the **Summary of Servers** pane:
 - a. Select the **Control** tab.
 - b. Select the option for your managed server.
 - c. Click **Start**.
- 7) In the **Server Life Cycle Assistant** pane, click **Yes**.
- 8) In the **Summary of Servers** pane, click the 'Start Refresh' icon in the middle of the pane to see when the **State** column says 'RUNNING.'

Setting Arguments in the WebLogic Administration Console for P6

Use these instructions if you will deploy P6 in a Managed or clustered server. To continue configuring WebLogic for P6, add the following arguments to your Managed or clustered server in the WebLogic Administration console:

- 1) Launch the WebLogic **Administration Console**.

Note: You can open the Administration Console via a web browser using this address: `http://serverIP:listenport/console`. The default *listenport* is 7001.

- 2) In the **Welcome** window, log in using the user name and password you created when you created your WebLogic domain.
- 3) In the **Change Center** pane of the Administration Console, click **Lock & Edit**.
- 4) In the **Domain Structure** pane:
 - a. Expand **Environment**.
 - b. Click **Servers**.
- 5) In the **Summary of Servers** pane, in the **Control** tab, click the link for your managed server name.
- 6) In the **Settings for <managed server name>** pane, select the **Server Start** tab.
- 7) Locate the **Arguments** field and set the following:
 - a. Set the Primavera bootstrap system property (it should be all one line with no space between "-" and "Dprimavera").
For example,

```
-Dprimavera.bootstrap.home=p6home
```

where *p6home* is the P6 home directory that was set during installation (for example, C:\P6EPPM_1\p6).
 - b. (Optional) If you need WebLogic to process UTF-8 characters, add the following argument (as all one line) after the bootstrap property with one space between them:

```
-Dweblogic.webservice.i18n.charset=utf-8
```

For example:

```
-Dprimavera.bootstrap.home=p6home  
-Dweblogic.webservice.i18n.charset=utf-8
```
 - c. For improved performance when starting the P6 domain in WebLogic, add the following JVM argument (as all one line) immediately after the previous argument with one space between them:
For example:

```
-Dprimavera.bootstrap.home=p6home  
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory
```

Note: Be sure to include a space before the -Djavax argument. Properties after the bootstrap can be in any order.

- d. (For Unix servers) If you don't have a graphical environment installed, you must set the server's JVM to bypass server-side rendering optimizations. If you don't add the argument, you may not be able to see graphics on pages, and the server logs will report **NoClassDefFoundError** errors.

Add this JVM argument:

```
-Djava.awt.headless=true
```

For example, in Unix:

```
-Dprimavera.bootstrap.home=p6home
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory
-Djava.awt.headless=true
```

- e. If using the JDK, set the Java Virtual Machine by entering the following flag at the beginning of the arguments you just added:

```
-server
```

For example:

```
-server -Dprimavera.bootstrap.home=p6home
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory
```

- f. If using the JDK, increase the JVM MaxPermSize setting to avoid Out-of-Memory errors. The MaxPermSize setting should be set to at least 256m. Also, modify memory settings to maximize performance. To do this, add the following lines after the -Dprimavera line to set the NewSize, MaxNewSize, and SurvivorRatio and the total Initial (-Xms) and Maximum heap size (-Xmx).

The complete line could look similar to the following if using the JDK (all one line):

- In Windows, the line should look similar to the following:

```
-server -Dprimavera.bootstrap.home=p6home
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory
-XX:MaxPermSize=256m -XX:NewSize=256m
-XX:MaxNewSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m
```

Note: Be sure to include a space before the -XX: specification. Properties after the bootstrap can be in any order.

- g. (Optional) If using the JDK and running Publication Services on a larger database, change the JVM parameters to increase the GC Time Ratio; add the following JVM setting (as all one line) immediately after the setting you just added:

```
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19
```

Notes:

- Be sure to include a space before the -XX:+ specification. Properties after the bootstrap can be in any order.
 - This release can run publication services through the P6 EPPM Extended Schema. See "Improved Reporting and Publication Services", or "Configuring P6 for Reporting" and "Working with Publication Services for Reporting" in the *P6 EPPM BI Publisher Configuration Guide* for more information on Publication Services.
-

- For Example:

```
-server -Dprimavera.bootstrap.home=p6home  
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory -XX:MaxPermSize=256m -XX:NewSize=256m  
-XX:MaxNewSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m  
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19
```

- h. (Optional) If you are having memory issues on the JVM, collect garbage logs by using the following parameter as all one line immediately after the previous line:

`-Xloggc : path to the log file`

- For example:

```
-server -Dprimavera.bootstrap.home=p6home  
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory -XX:MaxPermSize=256m -XX:NewSize=256m  
-XX:MaxNewSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m  
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19  
-Xloggc : path to the log file
```

8) Click **Save**.

9) In the **Change Center** pane, click **Activate Changes**.

10) Restart your managed server:

- a. In the **Domain Structure** pane:

1. Expand **Environment**.
2. Click **Servers**.

- b. In the **Summary of Servers** pane:

1. Select the **Control** tab.
2. Select the option for your managed server.

- c. Click **Shutdown**.

1. Click the down arrow to the right of the **Shutdown** button.
2. Click **When Work Completes** or **Force Shutdown Now**.
3. In the **Server Life Cycle Assistant** pane, click **Yes**.
4. Select the option for your managed server.
5. Click **Start**.

- d. In the **Server Life Cycle Assistant** pane, click **Yes**.

- e. In the **Summary of Servers** pane, click the Start Refresh icon in the middle of the pane to see when the **State** column says RUNNING.

11) Repeat these steps for each managed server.

Tips

Once you have finished setting the arguments, you will use the following sections to deploy P6 and to start your managed or clustered server: **Deploying P6 in WebLogic** (on page 32) and **Starting and Stopping Managed Servers** (on page 21).

Editing the setDomainEnv File for P6

Use these instructions if you will deploy P6 in the Admin Server instead of a managed server. To continue configuring WebLogic for P6, edit the setDomainEnv file:

- 1) Make a backup copy of the **setDomainEnv** file in case you need to undo any changes.
 - ▶ In Windows, the file is named "setDomainEnv.cmd" and is located in:
`weblogic_home\user_projects\domains\your_domain\bin\`
 - ▶ In Unix, the file is named "setDomainEnv.sh" and is located in:
`weblogic_home/user_projects/domains/your_domain/bin/`
- 2) Right-click the **setDomainEnv** file and select **Edit**.
- 3) Locate the line that begins with one of the following:
 - ▶ In Windows:
`call "%WL_HOME%/common/bin/commEnv.cmd"`
 - ▶ In Unix:
`${WL_HOME}/common/bin/commEnv.sh`
- 4) Add a new **JAVA_OPTIONS=** line below the line you located to set the Primavera bootstrap variable (it should be all one line with no space between "-" and "Dprimavera").
 - ▶ In Windows, the line should look similar to the following (all one line):
`set JAVA_OPTIONS=%JAVA_OPTIONS% -Dprimavera.bootstrap.home=p6home`
where *p6home* is the P6 home directory that was set during installation (for example, `c:\p6home`).
 - ▶ In UNIX, the line should look similar to the following (all one line):
`JAVA_OPTIONS=" ${JAVA_OPTIONS} -Dprimavera.bootstrap.home=p6home"`
where *p6home* is the P6 home directory that was set during installation (for example, `/usr/p6home`).
- 5) For improved performance when starting the P6 domain in WebLogic, add the following JVM argument (as all one line) immediately after the Primavera bootstrap variable with one space between them:
`-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory`
 - ▶ For example, in Windows:
`set JAVA_OPTIONS=%JAVA_OPTIONS% -Dprimavera.bootstrap.home=p6home
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory`
 - ▶ For example, in Unix:
`JAVA_OPTIONS=" ${JAVA_OPTIONS} -Dprimavera.bootstrap.home=p6home
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory`

Note: Be sure to include a space before the -Djavax specification. Properties after the bootstrap can be in any order.

- 6) (For Unix servers) If you don't have a graphical environment installed, you must set the server's JVM to bypass server-side rendering optimizations. If you don't add the argument, you may not be able to see graphics on pages, and the server logs will report **NoClassDefFoundError** errors.

Add this JVM argument (as all one line) immediately after the previous variable with one space between them:

```
-Djava.awt.headless=true
```

For example, in Unix:

```
JAVA_OPTIONS="{JAVA_OPTIONS} -Dprimavera.bootstrap.home=p6home  
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactor  
y -Djava.awt.headless=true
```

- 7) If using the JDK:

- a. Add new memory settings to maximize performance and increase the JVM MaxPermSize setting to avoid Out-of-Memory errors. (The MaxPermSize setting should be set to at least 256m.) To do this, add a USER_MEM_ARGS line so you can set the following values for NewSize, MaxNewSize, MaxPermSize, SurvivorRatio, total Initial size (-Xms), and Maximum heap size (-Xmx):

```
-XX:NewSize=256m -XX:MaxNewSize=256m -XX:MaxPermSize=256m  
-XX:SurvivorRatio=8 -Xms2048m -Xmx2048m
```

Add the line immediately below the JAVA_OPTIONS line you created (all one line):

- In Windows, the line should look similar to the following:

```
set USER_MEM_ARGS=-XX:NewSize=256m -XX:MaxNewSize=256m  
-XX:MaxPermSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m
```

- In Unix, the line should look similar to the following:

```
USER_MEM_ARGS="-XX:NewSize=256m -XX:MaxNewSize=256m  
-XX:MaxPermSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m"
```

- b. (Optional) If using the JDK and running PX services on a larger database, change the JVM parameters to increase the GC Time Ratio; add the following JVM setting to the USER_MEM_ARGS line (as all one line):

```
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19
```

Notes:

- Be sure to include a space before the -XX:+ specification. Properties after the bootstrap can be in any order.
 - P6 can run publication services through the P6 EPPM Extended Schema. See "Configuring P6 for Reporting" and "Working with Publication Services for Reporting" in the *P6 EPPM BI Publisher Configuration Guide* for more information on Publication Services.
-
- In Windows, the line should look similar to the following:

```
set USER_MEM_ARGS=-XX:NewSize=256m -XX:MaxNewSize=256m  
-XX:MaxPermSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m  
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19
```
 - In Unix, the line should look similar to the following:

```
USER_MEM_ARGS="-XX:NewSize=256m -XX:MaxNewSize=256m  
-XX:MaxPermSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m  
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19"
```

- c. (Optional) If you are having memory issues on the JVM, collect garbage logs by using the following parameter as all one line immediately after the previous line:

`-Xloggc: path to the log file`

- In Windows, the line should look similar to the following:

```
-server -Dprimavera.bootstrap.home=p6home  
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory -XX:MaxPermSize=256m -XX:NewSize=256m  
-XX:MaxNewSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m  
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19  
-Xloggc: path to the log file
```

- In Unix, the line should look similar to the following:

```
-server -Dprimavera.bootstrap.home=p6home  
-Djavax.xml.stream.XMLInputFactory=com.ctc.wstx.stax.WstxInputFactory -XX:MaxPermSize=256m -XX:NewSize=256m  
-XX:MaxNewSize=256m -XX:SurvivorRatio=8 -Xms2048m -Xmx2048m  
-XX:+UseParallelGC -XX:+UseParallelOldGC -XX:GCTimeRatio=19  
-Xloggc: path to the log file
```

- d. Set the Java Virtual Machine by entering a variable for JAVA_VM. Add the line immediately below the USER_MEM_ARGS line you created.

- In Windows, the line should look similar to the following:

```
set JAVA_VM=-server
```

- In Unix, the line should look similar to the following:

```
JAVA_VM="-server"
```

8) Save the changes to the setDomainEnv file and close it.

9) Stop and restart the Admin Server.

Deploying P6 in WebLogic

Follow the instructions below to deploy P6 into the WebLogic domain.

Note: Consult WebLogic's documentation for additional methods of deploying a Web application, such as using a Managed Server or Clustering.

Adding P6 and P6 Professional Cloud Connect as WebLogic Applications

To add P6 and P6 Professional Cloud Connect as WebLogic applications:

Note: These steps assume that you have set the arguments in the WebLogic Administration Console (see **Setting Arguments for P6** (on page 23)) and that the Admin Server and Managed Servers are running (see **Starting and Stopping the Admin Server and Managed or Clustered Servers** (on page 20)).

1) Launch the WebLogic **Administration Console**.

Note: You can open the Administration Console via a web browser using this address: `http://serverIP:listenport/console`. The default *listenport* is 7001.

- 2) In the **Welcome** window, log in using the user name and password that you created when you created your WebLogic domain.
- 3) In the **Change Center** pane of the Administration Console, click **Lock & Edit**.
- 4) In the **Domain Structure** pane, click **Deployments**.
- 5) In the **Summary of Deployments** pane, in the **Control** tab, click **Install**.
- 6) In the **Install Application Assistant** pane, complete one of the following:
 - a. Navigate to the P6 EPPM home directory at `<P6 EPPM_Home_Directory>\p6`.
 - b. Select the **p6.ear** file.
 - c. Click **Next**.
- 7) In the **Install Application Assistant** pane:
 - a. Select **Install this deployment as an application**.
 - b. Click **Next**.
- 8) In the **Install Application Assistant** pane:
 - a. Click the server or cluster where you want to deploy the application.
 - b. Click **Next**.
- 9) In the **Install Application Assistant** pane, click **Next** to accept the default options.
- 10) Review the configuration settings you have chosen, then click **Finish** to complete the installation.
- 11) In the **Settings for P6** window, click **Save**.

- 12) (Optional) Repeat the previous steps for P6 Professional Cloud Connect, using `p6procloudconnect.war`, and P6 Help.
- ▶ For P6 Professional Cloud Connect, use `p6procloudconnect.war` at `<P6 EPPM_Home_Directory>\p6suite\p6procloudconnect`.
 - ▶ For P6 Help, use **p6help.war** at `<P6 EPPM_Home_Directory>\p6suite\p6help`.

Note: If you want to deploy the application online help locally, you must download the online help WAR file from the Oracle Technology Network (OTN) website and deploy it in your environment.

You can download the online help WAR file from the following URL:

http://docs.oracle.com/cd/E68199_01/p6help/war/P6_Help.zip

After you download and deploy the Online Help, you must specify the URL to access the online help in the Online Help location setting in Primavera P6 Administrator. For information about configuring the Online Help location setting in Primavera P6 Administrator, refer to the *P6 EPPM System Administration Guide*.

- 13) Proceed to **Starting the P6 Application in WebLogic** (on page 33).

Starting the P6 Application in WebLogic

To start the P6 application in WebLogic:

- 1) In the **Change Center** pane, click **Activate Changes**.
- 2) In the **Domain Structure** pane, click **Deployments**.
- 3) In the **Summary of Deployments** pane, select **p6** or **p6procloudconnect**, and or **p6help**.
- 4) In the **Summary of Deployments** pane, in the **Control** tab:
 - a. Click the down arrow to the right of the **Start** button.
 - b. Click **Servicing all requests**.
- 5) In the **Start Application Assistant** pane, click **Yes**.
- 6) In the **Summary of Deployments** pane, view the link in the **State** column of the row that contains an application that you attempt to deploy. Wait a few minutes, and then click **Refresh**. The application State column should show **Active**.

Notes:

- If you want to use OTN for your help, do not deploy `p6help.war`. The OTN link is the default link in the Primavera P6 Administrator. OTN will have the most up-to-date documentation for the P6 Help.
 - When repeating the process for the P6 Help and Tutorials file in **Adding P6 and P6 Professional Cloud Connect as WebLogic Applications** (on page 32), navigate to the location of the help and tutorials files as determined when you installed your P6 EPPM applications.
-

- 7) Verify that the **State** column for both files shows **Active**.

- 8) Logout of the **Administration Console**.
- 9) Navigate to your P6 and verify the P6 login page displays in your browser.

Example URL:

`http://localhost:7001/p6`

where localhost is your server's host name and 7001 is the default listen port.

Note: The default context root is /p6, which is also the cookie path. If you change the context root or use a fronting web server with a different context root, you need to modify the cookie path used by P6 to match.

- For more information about changing the cookie path, see the WebLogic documentation.
 - For more information about changing the context root, see *How To Change The Context Root Of P6 EPPM Web Based Applications* (Doc ID 1928112.1) on My Oracle Support.
-

Tips

After you deploy P6, use the *P6 EPPM System Administration Guide* to do the following:

- ▶ Make sure to review additional configuration steps using the Primavera P6 Administrator in "Configuring a Setting for WebLogic on Microsoft SQL Server 2005 Database" chapter.
- ▶ If you did not deploy the p6help.war and are using OTN instead, you do not need to configure anything in the Primavera P6 Administrator.

If you deploy the p6help.war file, a Primavera P6 Administrator setting must be populated to complete the P6 Help configuration. See information about the Help Server URL setting in the Primavera P6 Administrator.

- ▶ If you delete a p6.ear, p6help.war, or a P6Tutorials.war file from WebLogic and then redeploy any of those files, check `weblogic_home\user_projects\domains\your_domain\config\` for a folder called "fmwconfig." If the folder is there, delete it.
- ▶ If you do not use anything other than P6, see "Precompiling P6" chapter.

Where to Go From Here - Post Manual P6 and WebLogic Configuration

Now that you have deployed P6 in WebLogic, you can begin using P6. You may find the following guides useful for help getting started:

- ▶ *P6 EPPM System Administration Guide*
- ▶ *P6 EPPM Application Administration Guide*
- ▶ *P6 Help*

Depending on what other applications you are using, you may also need the following guides:

P6 Professional

- ▶ *P6 Professional Installation and Configuration Guide*

P6 Team Member

- ▶ *P6 EPPM Team Member Configuration Guide*

P6 EPPM Web Services

- ▶ *P6 EPPM Web Services Configuration Guide*

P6 Integration API

- ▶ *P6 EPPM Integration API Configuration Guide*

Primavera Data Warehouse

- ▶ *Primavera Data Warehouse Installation and Configuration Guide*

Analytics

- ▶ *Analytics Installation and Configuration Guide*

Additional Applications

- ▶ *P6 EPPM BI Publisher Configuration Guide*
- ▶ *P6 EPPMBPM Configuration Guide*
- ▶ *P6 EPPM Content Repository Configuration Guide*
- ▶ *P6 EPPM Oracle Identity Manager Configuration Guide*
- ▶ *Primavera Oracle Access Manager Configuration Guide*
- ▶ *Primavera Oracle Enterprise Manager Configuration Guide*

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.

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

Help System Access

P6 EPPM is configured to access its help systems on OTN. However, downloadable versions of the help systems are also available on OTN if you need to download, deploy, and access a local copy.

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>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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, 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**.

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.

Creating a Service Request

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

Keeping Your Software Up to Date

To ensure you have the latest versions of your products, be sure to download and install all available patch sets from <http://support.oracle.com>.

Finding Security-related Patches

To get the latest information about Critical Patch Updates, visit <http://www.oracle.com/technetwork/topics/security/alerts-086861.html>.

Legal Notices

Oracle Primavera P6 Server Configuration Guide

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