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PRIMAVERA

**P6 Integration API and WebLogic Configuration Guide
Release 8.3**

March 2013

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Oracle Primavera P6 Integration API and WebLogic Configuration Guide

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Where to Get Documentation

For the most up-to-date versions of all manuals and technical documents related to installing, administering, and using P6 EPPM, go to:

http://download.oracle.com/docs/cd/E29618_01/index.htm

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

You can also access the versions of the product manuals and technical documents that were available at the time of the release from the P6 EPPM Documentation Center, located in the \Documentation\Documentation_library\language folder of the P6 EPPM physical media or download.

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

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

Title	Description
<i>P6 EPPM Installation and Configuration Guide</i>	<p>This documentation set explains how to install and configure the P6 EPPM using the P6 EPPM Installation and Configuration wizards.</p> <p>The P6 EPPM network administrator/database administrator and P6 administrator should read this guide.</p>
<i>P6 EPPM Installation and Manual Configuration Guide</i>	<p>This documentation set explains how to install and configure the P6 EPPM using the P6 EPPM Installation wizards, and how to manually configure individual components.</p> <p>The P6 EPPM network administrator/database administrator and P6 administrator should read this guide.</p>
<i>P6 EPPM Post Installation Administrator's Guide</i>	<p>Once you have installed and configured your P6 EPPM applications, this guide will tell you how to get started using them. You will want to complete most of the tasks in this guide before you let your users work with these applications. These tasks include information about configuring your users and security settings and privileges, setting your P6 Administrator application and P6 Progress Reporter Administrator settings, and finalizing your P6 Integration API and P6 EPPM Web Services settings.</p> <p>The P6 EPPM network administrator/database administrator and P6 administrator should read this guide.</p>
<i>Tested Configurations</i>	<p>Lists the configurations that have been tested and verified to work with P6 EPPM.</p> <p>The network administrator/database administrator and P6 EPPM administrator should read this document.</p>
<i>P6 User's Guide</i>	<p>This guide explains how to plan, set up, and manage projects in a multiuser environment. If you are new to P6, start with this guide to learn how to use the software effectively to plan and manage projects. When you need more detail, refer to the P6 Help.</p> <p>The program manager, project manager, resource/cost manager, and team leader should read this guide.</p>
<i>P6 Data Dictionary</i>	<p>This data dictionary defines fields used in P6.</p> <p>All P6 users should refer to this guide if you need a field</p>

Title	Description
	definition.
<i>P6 Team Member User's Guide</i>	<p>This guide explains how to status activities using P6 Team Member interfaces, which are P6 Team Member Web, P6 Team Member for iPhone, and E-mail Statusing Service.</p> <p>All users of the P6 Team Member interfaces should read this guide.</p>
<i>P6 Team Member Web Help</i>	<p>Describes how to use P6 Team Member Web to provide status on activities.</p> <p>P6 Team Member Web users should read this Help.</p>
<i>P6 Team Member for iPhone Help</i>	<p>Describes how to use the P6 Team Member for iPhone app to provide status on activities.</p> <p>P6 Team Member for iPhone app users should read this Help.</p>
<i>P6 Professional Help</i>	<p>Explains how to use P6 Professional for EPPM to plan, set up, and manage projects in a multiuser environment. If you are new to P6 Professional, use this Help to learn how to use the software effectively to plan and manage projects.</p> <p>The P6 Professional administrator, program manager, project manager, resource/cost manager, and team leader should read this Help.</p>
<i>P6 Help</i>	<p>Describes how to create, manage, plan, and schedule projects, group projects into portfolios, administer all enterprise data, application settings, user accounts, and security profiles, maintain both the organizational breakdown structure (OBS) and enterprise project structure (EPS), manage resources and roles, track risks, issues, and notebooks, create and reuse templates, evaluate budgets, analyze performance and ROI for project portfolios, participate in workflows and document reviews, approve timesheets, and generate reports.</p> <p>The operations executive, P6 EPPM and P6 administrator, program manager, project manager, resource/cost manager, and team leader should read this Help.</p>

Title	Description
<i>P6 Progress Reporter Administrator Help</i>	<p>Describes how to enter database connection information for the P6 Progress Reporter server and modify P6 Progress Reporter server and application settings.</p> <p>The P6 EPPM network administrator/database administrator should read this Help.</p>
<i>P6 Progress Reporter Help</i>	<p>Describes how to use P6 Progress Reporter to enter and update time spent on assignments.</p> <p>Team members using P6 Progress Reporter should read this Help.</p>
<i>P6 Progress Reporter User's Guide</i>	<p>This guide explains how to report work time and provide status on assigned activities using P6 Progress Reporter.</p> <p>Team members using P6 Progress Reporter should read this guide.</p>
<i>Primavera P6 Visualizer Help</i>	<p>Describes how to create, modify, and manage Timescaled Logic Diagrams and Gantt charts. The Visualizer application can connect to a P6 Professional or EPPM database. Visualizer can only be installed via the P6 Professional setup. However, you can run Visualizer without P6 Professional installed.</p> <p>All users should read this Help.</p>
<i>P6 EPPM Web Services Programmer's Guide, and P6 EPPM Web Services Reference Manual</i>	<p>The <i>P6 EPPM Web Services Programmer's Guide</i>, available as an HTML help system, describes how to invoke, use, and troubleshoot the available services/operations within supported environments. The <i>P6 EPPM Web Services Reference Manual</i>, also available as an HTML help system, describes all services and operations available in P6 EPPM Web Services in a comprehensive manner.</p> <p>Anyone who wants to develop applications which interact with P6 should read this guide.</p>
<i>P3 to P6 EPPM Migration Guide</i>	<p>This guide provides best practices for migrating your P3 data to P6 EPPM, and details how P3 functionality maps to P6 EPPM functionality.</p> <p>All administrators should read this guide.</p>

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>

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.

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

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

Access to Oracle Support

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

Using Primavera's Support Resource Centers

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

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

PICs also provide access to:

- ▶ **Communities** 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>.

Configuring P6 Integration API

The P6 Integration API is a Java-based API and server that enables developers to create client code that can seamlessly access P6 EPPM functionality.

This guide will tell you how to:

- ▶ Uninstall previous products and versions of P6 Integration API
- ▶ Configure the application server for P6 Integration API
- ▶ Deploy P6 Integration API

Before using this guide you will need to:

- ▶ Install the R8.3 database. See the *Installing and Configuring P6 EPPM* guide or *Manually Installing the P6 EPPM Database* guide.
- ▶ Install P6 and P6 Integration API. See the *Installing and Configuring P6 EPPM* guide.

Note: The *Installing and Configuring P6 EPPM* guide, will tell you how to install the remote-mode P6 Integration API. If you want to install local-mode P6 Integration API, see **Local-mode P6 Integration API Installation Process** (on page 32).

Creating the WebLogic Environment for P6 Integration API

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

- ▶ Installing the application server. See **Prerequisites for P6 EPPM Configuration** (on page 13).
- ▶ Installing the application. See the *Installing and Configuring P6 EPPM* guide.
- ▶ Configuring the application server. See **Configuring WebLogic for P6 EPPM** (on page 20).
- ▶ Starting the application server. See **Starting the WebLogic Admin Server for P6 EPPM** (on page 24).
- ▶ Deploying the application in the WebLogic domain. See **Deploying P6 Integration API in WebLogic** (on page 27).

Prerequisites for P6 EPPM Configuration

Review the prerequisites before configuring any P6 EPPM applications.

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Uninstalling Previous Versions of P6

You must uninstall any previous versions of P6 before upgrading to 8.3.

Cautions:

- Before upgrading P6, you should upgrade the P6 EPPM database to 8.3. See the *Upgrading and Configuring P6 EPPM* or *Manually Upgrading the P6 EPPM Database* guide 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\\Tested_Configurations folder of the P6 EPPM physical media or download.
- ▶ If you are a current Apache JackRabbit user and upgrade to P6 EPPM 8.3, 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 to 8.3.
- ▶ If you are a current jBPM user and upgrade to P6 EPPM R8.3, workflows and reviews data will not be available. You should close all workflows and reviews that are in progress before upgrading to P6 EPPM 8.3. You cannot migrate any of this data to 8.3.
- ▶ 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 P6 Administrator application 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 Post Installation Administrator's 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 Post Installation Administrator's Guide*.
- ▶ Starting with R8, 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 P6 EPPM 8.3, 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 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 `win\Disk1\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 Integration API 6.2.1 or Earlier from WebLogic

To uninstall P6 Integration API from a 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.
- 2) If you will use the same *apihome* directory for the new deployment, delete the existing WAR file from that directory to avoid conflict with the new PrimaveraAPI.war file.

Uninstalling P6 Integration API 7.0 or Later from WebLogic

To uninstall P6 Integration API 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 Integration API

- 1) From the P6 Integration API 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 `win\Disk1\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 Integration API 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 Integration API from WebLogic

To delete P6 Integration API 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 **PrimaveraApi**.
 - 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 **PrimaveraApi**.
 - 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 `apihome` directory for the new deployment, delete the existing WAR file from that directory to avoid conflict with the new PrimaveraAPI.war file.

Installing Applications

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

Installing WebLogic

You will need to install WebLogic 11g or 12C to deploy P6 EPPM. For supported version levels, see the *Tested Configurations* document. Also, consult WebLogic's documentation for installation instructions. Visit <http://oracle.com/technology/documentation/bea.html>.

WebLogic JDK

WebLogic 11g automatically installs Oracle JRockit and Sun Java 2 JDK version 6.0 for Windows; however, specific versions are supported based on your configuration. For a list of tested configurations for P6 EPPM, see the *Tested Configurations* document.

These guidelines were current at the time of publication:

- ▶ You must use a supported version of a JDK.

- ▶ To use JRockit, you must have JRockit for Java SE 6. The Microsoft Windows and Linux platform versions of the P6 EPPM media pack includes JRockit R28 for Java SE 6. For more information, see the *Primavera P6 EPPM Media Pack Readme* and <http://oracle.com/technology/documentation/bea.html>.

Installing Weblogic

- 1) If you are using, WebLogic 11gR1 (10.3.6), install patch #16176831 for OWL 10.3.6 by following instructions provided in the patch readme file.
If you are using WebLogic 12c (12.1.1), install patch #16176831 for OWL 12.1.1 by following instructions provided in the patch readme file.
- 2) If not already available, create a folder called **Endorsed** in the `JAVA_Home\jre\lib\` folder.
- 3) Copy the following files from the `WebLogic_Home/modules/` folder to the `JAVA_Home\jre\lib\endorsed` folder:
 - ▶ `javax.annotation_1.0.0.0_1-*.jar`
 - ▶ `javax.xml.bind_2.*.*.jar`
 - ▶ `javax.xml.ws_2.*.*.jar`

Tips

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

After you finish installing WebLogic, ensure you can run the `startNodeManager.cmd/sh` (depending on your environment) before installing P6 EPPM. If you cannot run these files, contact your WebLogic representative for help.

JDK Installation on WebLogic

WebLogic 11g R1 (10.3.6) automatically installs Oracle JRockit 1.6.0_29 and Sun Java 2 JDK version 6.0 update 29 (1.6.0_29) for Windows; WebLogic 12c (12.1.1) automatically installs Oracle JRockit 1.6.0_29 and Sun Java 2 JDK version 6.0 update 29 (1.6.0_29) for Windows; however, specific versions are supported based on your configuration. For a list of tested configurations for P6 EPPM, see the *Tested Configurations* document.

These guidelines were current at the time of publication:

- ▶ To use the Sun JDK, you must have version 6.0 update 41 (1.6.0_41) or JDK 7 update 15. As of now, these are the most recent versions. As new releases of the software become available, you can find these at <http://www.oracle.com/technetwork/java/archive-139210.html>.
- ▶ To use JRockit, you must have JRockit R41 for Java SE 6 (1.6.0_41). The Microsoft Windows and Linux platform versions of the P6 EPPM media pack include JRockit R41 for Java SE 6. For more information, see the *Primavera P6 EPPM Media Pack Readme* and <http://oracle.com/technology/documentation/bea.html>.

P6 and P6 Integration API Installation

To deploy P6 Integration API, you must install P6 and P6 Integration API. To install these applications, run the setup.exe file from the **Primavera P6 Enterprise Project Portfolio Management R8.3 for <platform>\Disk1\Install** folder of the physical media or download. For more information on installing P6 and P6 Integration API, see the *Installing and Configuring P6 EPPM* guide.

Note: You can deploy P6 Integration API on a separate machine from P6.

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. When creating a Managed or clustered environment, you will need to copy the BREBootstrap.xml file from the home directory on the Admin Server machine to the new location on each Managed Server or clustered machine to connect to the same P6 EPPM database. If your Admin, Managed, and clustered servers are all on the same machine, you will not need to copy the BREBootstrap.xml 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 Integration API

Oracle recommends you deploy P6 Integration API and P6 in separate domains. If you want P6 Integration API and P6 deployed in the same domain, you may have completed these steps when you deployed P6 and can skip to **Deploying P6 Integration API in WebLogic** (on page 27).

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.
- 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 on UNIX Platforms

To start WebLogic on UNIX platforms:

- 1) Change to the `weblogic_home/user_projects/domains/your_domain` directory.
- 2) Run the `startWebLogic.sh` script.
- 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 on UNIX Platforms

To stop WebLogic on UNIX platforms:

- 1) Change to the *weblogic_home/user_projects/domain* directory.
- 2) Run the stopWebLogic.sh script.
- 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 26)). 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:

- 1) Run the **startNodeManager** file.
 - ▶ In Windows, the file is named "startNodeManager.cmd" and is located in:
`weblogic_home\wlserver_x.x\server\bin\`
 - ▶ In Unix, the file is named "startNodeManager.sh" and is located in:
`weblogic_home/wlserver_x.x/server/bin/`where x.x is there version for your WebLogic server.

- 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.'

Deploying P6 Integration API in WebLogic

Follow the instructions to deploy P6 Integration API 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.

Setting the Bootstrap Location if P6 Integration API is in a Different WebLogic Server from P6

If you will run the `PrimaveraAPI.war` file in the same domain as P6, skip this section and continue to **Adding P6 Integration API to WebLogic** (on page 29).

If you will run the `PrimaveraAPI.war` file in a different domain from P6, set the location of your P6 bootstrap file. When you set the bootstrap argument, you will set it for the home directory where you want P6 Integration API to connect.

- 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").
 - In Windows, the line should look similar to the following (all one line):

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

where *p6home* is the P6 home directory that was set during installation (for example, C:\P6EPPM_1\p6).
 - In UNIX, the line should look similar to the following (all one line):

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

where *p6home* is the P6 home directory that was set during installation (for example, /usr/P6EPPM_1/p6).
 - b. If your bootstrap file has only one database, skip this step.

If your bootstrap file contains more than one database, you need to add an argument clarifying which database you want to use. The line will look similar to the following:

```
-Ddatabase.instance=db_id
```

where *db_id* is the database instance you want to use (for example, -Ddatabase.instance=2).The whole line should look similar to the following (all one line):

```
-Dprimavera.bootstrap.home=p6home -Ddatabase.instance=db_id
```
 - c. Set the memory settings to maximize performance.
 - In Windows, the line should look similar to the following (all one line):

```
-Dprimavera.bootstrap.home=p6home -Xms256m -Xmx512m
```

where *p6home* is the P6 home directory that was set during installation (for example, c:\p6home).
 - In UNIX, the line will look similar to the following (all one line):

```
-Dprimavera.bootstrap.home=p6home -Xms256m -Xmx512m
```

where *p6home* is the P6 home directory that was set during installation (for example, /usr/p6home).
- 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.

Adding P6 Integration API to WebLogic

To add P6 Integration API as a WebLogic application:

Note: These steps assume that you have set the bootstrap 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, click **Deployments**.
- 5) In the **Summary of Deployments** pane, in the **Control** tab, click **Install**.
- 6) In the **Install Application Assistant** pane:
 - a. Navigate to the P6 Integration API home directory.
 - b. Select the **PrimaveraAPI.war** 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.

Starting the P6 Integration API Application in WebLogic

To start the P6 Integration API 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, in the **Control** tab, select **PrimaveraApi**.
- 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 'PrimaveraApi.' Wait a few minutes, then click **Refresh**.
The PrimaveraApi State column should show **Active**.
- 7) Logout of the **Administration Console**.

Install Local-mode P6 Integration API

This chapter describes how to install the local-mode P6 Integration API.

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System Requirements

The P6 Integration API has the following system requirements for local mode installations:

Java Runtime Environment

Before installing P6 Integration API, you need to install the Java Development Kit (JDK), version 1.6.x, also known as J2SE 6.0. While P6 Integration API is compatible with any 1.6 version, Oracle recommends that you use Update 27. The Integrated Development Environment (IDE) you use to create code must work with this version.

Supported Operating Systems

P6 Integration API works on Windows, Linux, and the following Unix operating systems: Solaris, HP, AIX.

Database

Use a supported P6 EPPM database (supported databases are Oracle and Microsoft SQL Server).

Note: For other requirements, see the *P6 EPPM Tested Configurations* document.

JDK Installation on WebLogic

WebLogic 11g R1 (10.3.6) automatically installs Oracle JRockit 1.6.0_29 and Sun Java 2 JDK version 6.0 update 29 (1.6.0_29) for Windows; WebLogic 12c (12.1.1) automatically installs Oracle JRockit 1.6.0_29 and Sun Java 2 JDK version 6.0 update 29 (1.6.0_29) for Windows; however, specific versions are supported based on your configuration. For a list of tested configurations for P6 EPPM, see the *Tested Configurations* document.

These guidelines were current at the time of publication:

- ▶ To use the Sun JDK, you must have version 6.0 update 41 (1.6.0_41) or JDK 7 update 15. As of now, these are the most recent versions. As new releases of the software become available, you can find these at <http://www.oracle.com/technetwork/java/archive-139210.html>.
- ▶ To use JRockit, you must have JRockit R41 for Java SE 6 (1.6.0_41). The Microsoft Windows and Linux platform versions of the P6 EPPM media pack include JRockit R41 for Java SE 6. For more information, see the *Primavera P6 EPPM Media Pack Readme* and <http://oracle.com/technology/documentation/bea.html>.

Local-mode P6 Integration API Installation Process

Before installing the local-mode P6 Integration API, you need to install P6 EPPM. Additionally, you must uninstall any earlier versions of the local P6 Integration API before installing the current version.

Note: For information on installing P6 EPPM, see the *Installing and Configuring P6 EPPM* guide.

The local-mode P6 Integration API Installer provides a wizard to guide you through the installation process, which includes:

- ▶ Choosing the installation mode
- ▶ Installing the P6 Integration API libraries
- ▶ Setting up and configuring the P6 Integration API database

Notes:

- Before you start the installation, make sure you set the JAVA_HOME environment variable.
 - Due to the global nature of the OUI (Oracle Universal Installer), the OUI online help is not applicable for installing or uninstalling the P6 Integration API or for references to P6 EPPM documentation. Instead, see the installation instructions in this section.
-

Installing Local-mode P6 Integration API

To install the P6 Integration API:

- 1) Set the JAVA_HOME location:
In your Windows system environment:
 - a. Right-click on **My Computer** and select **Properties**.

- b. In the **System Properties** dialog box, on the **Advanced** tab, click **Environment Variables**.
- c. In the **Environment Variables** dialog box, under **System variables**, click **New**.
- d. In the **New System Variable** dialog box:
 1. In the **Variable name:** field, enter **JAVA_HOME**.
 2. In the **Variable value:** field, enter the location where Java is located (for example, C:\Program Files\Java\jre7).
- e. Click **OK** to exit out of the open dialog boxes.

For Linux, add the JAVA_HOME Environment variable to the dbsetup.sh (in the Database folder of the physical media or download) file before running it. For example: `export JAVA_HOME=/usr/java/jre1.7.0_15/`

- 2) From the Web_Services\Integration API folder of the physical media or download location, run one of the following:

If you are installing on a Microsoft Windows system, navigate to the **win\Disk1\install** directory and double-click on the **setup.exe** file.

If you are installing on a non-Microsoft Windows system:

- a. Type this command: **cd<OperatingSystem>\Disk1\install**

Depending on your operating system, replace **<Operating System>** in the command above with **solaris_64**, **linux**, **linux64**, **hpux_IA64**, **hp_64**, or **aix_64-5L**.

- b. Type these commands:

```
chmod 755 runInstaller
```

```
chmod 755 unzip
```

```
./runInstaller
```

- c. Click **Next**.

- 3) On the **Welcome** screen, click **Next**.

- 4) On the **Select the Installation Type** screen, specify the installation mode.

- ▶ **Local Mode Packages Only** - Choose this option to use the P6 Integration API in local mode, without Java RMI. This option installs database configuration tools and javadoc.
- ▶ **Client Side Packages Only**- Choose this option to install client side libraries and documentation. If you are using the remote API, you will need this option.

Note: The maximum number of clients that can access a remote server at one time is approximately 50. This number might be less, depending on multiple factors (e.g., system hardware, network configuration, etc.)

- 5) In the **Specify Home Details** screen:

- a. In the **Name** field, enter a name for the P6 Integration API.
- b. In the **Path** field, specify the installation location for the P6 Integration API files .
- c. Click **Next**.

- 6) In the **Available Product Components** screen, select the components to install and click **Next**.
- 7) In the **JDK Home Directory** screen, type or browse to the location where JDK is installed.
- 8) In the **Summary** screen, click **Install**.

Notes:

- If you installed the local mode package, the **Configuration Assistants** screen appears after the installation finishes. Do not close this screen. After a short time, the **Database Configuration** dialog box opens.
- If you installed the client side package, your installation is complete. You can exit the wizard now and skip the remaining steps in this section.

-
- 9) In the **Database Configuration** dialog box:

Note: You can later change the database type through the P6 Integration API Database Configuration Setup wizard.

- a. Choose the database type: Oracle or Microsoft SQL Server.
- b. Click **Next**.
- c. Specify the database connection parameters.
- d. Click **Next**.

Note: The P6 Integration API requires pubuser access (in the User Name field) to the database. The database name, host address, and host port are specific to your Oracle or Microsoft SQL Server installation. Database Host Port displays the default port for the database type you selected. You can edit this port.

- e. If the installer detects an existing configuration screen, choose the appropriate action.

Notes:

- If your site includes P6, you can share a new P6 Integration API configuration with P6. However, P6 cannot share an existing configuration with P6 Integration API because it will not support the new P6 Integration API configuration settings.
 - If a configuration does not exist, the **The installer has detected an existing. . .** screen does not appear and the installation process automatically creates a default configuration named Primavera Configuration. You can edit the settings for this configuration through the P6 Administrator application.
-

- After installation, you can use the Database Configuration Setup wizard to choose or create a different configuration.
- See the *P6 EPPM Post Installation Administrator's Guide* for more information about configurations.

10) When the message displays to confirm the database configuration has completed successfully:

- a. Click **OK**.
- b. Click **Exit** to close the Setup wizard.

You will now have the following shortcuts added to the P6 Integration API entry in your Start menu:

- ▶ Demo applications
- ▶ Database Configuration
- ▶ P6 Administrator application

Where to Go From Here - Post Manual P6 Integration API Configuration

Now that you have deployed P6 Integration API, you can begin using P6 Integration API. Use the *P6 EPPM Post Installation Administrator's Guide* to get started.