



PRIMAVERA

**P6 Integration API and WebLogic Configuration Guide
Release 8.4**

September 2014

Contents

Configuring P6 Integration API	5
Creating the WebLogic Environment for P6 Integration API.....	7
Prerequisites for P6 EPPM Configuration.....	7
Uninstalling Previous Versions of P6	7
Installing Applications.....	8
Installing WebLogic	8
JDK and JRockit Installations	9
P6 and P6 Integration API Installation.....	9
Configuring WebLogic for P6 EPPM	9
Creating a WebLogic Domain for P6 Integration API.....	9
Starting and Stopping the Admin Server and Managed or Clustered Servers.....	13
Starting the WebLogic Admin Server for P6 EPPM.....	13
Starting WebLogic on Windows Platforms	13
Starting WebLogic.....	13
Stopping the WebLogic Admin Server for P6 EPPM.....	13
Stopping WebLogic on Windows Platforms	14
Stopping WebLogic.....	14
Starting and Stopping Managed Servers	14
Starting a Managed or Clustered Server.....	15
Stopping a Managed or Clustered Server.....	15
Deploying P6 Integration API in WebLogic	16
Setting the Bootstrap Location if P6 Integration API is in a Different WebLogic Server from P6	16
Adding P6 Integration API to WebLogic	18
Starting the P6 Integration API Application in WebLogic	18
Install P6 Integration API	21
System Requirements.....	21
JDK and JRockit Installations.....	21
Local-mode P6 Integration API Installation Process	22
Installing Local-mode P6 Integration API.....	22
Where to Go From Here - Post Manual P6 Integration API Configuration	27
For More Information	27
Where to Get Documentation	27
Where to Get Training.....	29
Where to Get Support	30
Legal Notices	32

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 R8.4 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 22).

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 7).
- ▶ Installing the application. See the *Installing and Configuring P6 EPPM* guide.
- ▶ Configuring the application server. See **Configuring WebLogic for P6 EPPM** (on page 9).
- ▶ Starting the application server. See **Starting the WebLogic Admin Server for P6 EPPM** (on page 13).
- ▶ Deploying the application in the WebLogic domain. See **Deploying P6 Integration API in WebLogic** (on page 16).

In This Section

Prerequisites for P6 EPPM Configuration	7
Configuring WebLogic for P6 EPPM	9

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 8.4.

Cautions:

- Before upgrading P6, you should upgrade the P6 EPPM database to 8.4. 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\<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 P6 EPPM 8.4, 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 8.4.

- ▶ If you are a current jBPM user and want to upgrade to P6 EPPM R8.4, workflows and reviews data will not be available. You should close all workflows and reviews that are in progress before upgrading to P6 EPPM 8.4. You cannot migrate any of this data to 8.4.
- ▶ 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*.
- ▶ 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 8.4, 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.

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 R1 (10.3.6) or 12c (12.1.2) to deploy P6 EPPM. For supported versions, see the *Tested Configurations* document. Also, consult WebLogic's documentation for installation instructions. Visit <http://www.oracle.com/technetwork/middleware/weblogic/documentation/index.html>.

Note: WebLogic 12.1.2 is supported with JDK 1.7 Update 67 only.

Tips

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 and JRockit Installations

WebLogic 11g R1 (10.3.6) and 12c (12.1.2) automatically installs Oracle JRockit and Sun Java 2 JDK versions. For a list of supported JDK and JRockit versions for P6 EPPM, see the *Tested Configurations* document. As new releases of the software become available, you can find these at <http://www.oracle.com/technetwork/java/archive-139210.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 R8.4 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 16).

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

To start WebLogic:

- 1) Change 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

To stop WebLogic:

- 1) Change to the *weblogic_home/user_projects/domain* directory.
- 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 14)). 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\user_projects\domains\domainname\bin
- ▶ In Unix, the file is named "startNodeManager.sh" and is located in:
weblogic_home\user_projects\domains\domainname\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.'

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 18).

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 P6 Integration API

This chapter describes how to install the P6 Integration API.

In This Section

System Requirements	21
JDK and JRockit Installations	21
Local-mode P6 Integration API Installation Process	22

System Requirements

The P6 Integration API has the following system requirements for installation:

Java Runtime Environment

Before installing P6 Integration API, you need to install the Java Development Kit (JDK), version 1.7.x. While P6 Integration API is compatible with any 1.7 version, Oracle recommends that you use Update 67. 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 Professional database (supported databases are Oracle and Microsoft SQL Server).

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

JDK and JRockit Installations

WebLogic 11g R1 (10.3.6) and 12c (12.1.2) automatically installs Oracle JRockit and Sun Java 2 JDK versions. For a list of supported JDK and JRockit versions for P6 EPPM, see the *Tested Configurations* document. As new releases of the software become available, you can find these at <http://www.oracle.com/technetwork/java/archive-139210.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.

Notes:

- 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.)
 - When using the P6 Integration API in Remote Mode and the client and server are in different time zones, the time of date fields in the client will be based on the local time, not the server time, by default. If you want the times to match, you can first set the time zone in your client code to be the same as the server time zone for each thread that calls P6 Integration API code.
-

- 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.

For More Information

Where to Get Documentation

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

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

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

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

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

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


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

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

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

Distributing Information to the Team

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

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

Where to Get Training

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

<http://education.oracle.com>

Oracle Learning Library

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

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

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

Where to Get Support

If you have a question about using Oracle products that you or your network administrator cannot resolve with information in the documentation or help, 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**.

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

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

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

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

Access to Oracle Support

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

Using Primavera's Support Resource Centers

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

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

PICs also provide access to:

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

Legal Notices

Oracle Primavera P6 Integration API and WebLogic Configuration Guide

Copyright © 2003, 2014, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software or hardware and documentation may provide access to or information on content, products and services from third-parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.