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**PRIMAVERA**

**P6 EPPM Manual Installation Guide (Oracle Database)  
16 R2**

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# Oracle Database Manual Configuration Overview

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The P6 EPPM database stores P6 EPPM data used by the P6 EPPM applications.

The database administrator (DBA) should perform the steps in this chapter. You must install the database server before you can create the database. See the *P6 EPPM Planning and Implementation Guide* for details on product versions P6 EPPM supports. See the *P6 EPPM Installation and Configuration* to use a wizard that automatically creates the database structures and loads the data.

P6 EPPM includes an encryption algorithm that provides enhanced security for private database logins; however, when you manually configure your database, the database does not automatically enforce the encryption algorithm. If you manually configure your database, Oracle recommends that you use this encryption algorithm. To do so, you must reset the private database login. See **Resetting Private Database Passwords** (on page 14) for instructions. If you automatically configure your database, you do not need to configure the encryption algorithm.

User logins and passwords are not affected.

## User Name and Password Tips

- ▶ P6 EPPM does not support passwords with multi-byte characters.
- ▶ For security reasons, Oracle strongly recommends that you replace the default database users' (admuser, privuser, pubuser, bgjobuser, and PxRptUser) passwords immediately after a manual database installation or an upgrade from P6 version 7.0 and earlier. Do not use special characters in the database name, privileged user, public user, or PX Reporting user name for example: { } [ ] : ; < > , . ? ! @ # \$ % ^ & \* ( ) - \_ | / \ ~ `
- ▶ Oracle recommends using strong passwords. Strong passwords in P6 EPPM contain between 8 and 20 characters and at least one numeric and one alpha character. To further strengthen the password, use a mixture of upper and lower case letters.
- ▶ See **Modifying Private Database Logins for P6 EPPM** (on page 15) for instructions on how to replace the private database login. For all other database user names and passwords, use the tools included with the database.
- ▶ 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 on the default Admin Superuser in the *P6 EPPM Application Administration Guide* for guidelines on this process.

## Security Tips

- ▶ To configure the Oracle database server for SSL, please see the *P6 EPPM Security Guide* included with the Oracle Database Server Documentation for configuring the Oracle Server and Oracle Client(s) for SSL.

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## Oracle Database Installation

You can use an Oracle database on your database server for P6 EPPM installations. You must install the database server before you can create the P6 EPPM database.

### Notes:

- When you attempt to create a database using Oracle Database 12c, the option to create a pluggable database will be enabled by default. If you do not want to create a container database, deselect the **Create As Container Database** check box during the database creation process. If you create a container database, you must also create a pluggable database on which to install your P6 EPPM instance.
- When using an Oracle database, you must install Oracle Multimedia, along with these supporting components: Oracle JVM, Oracle XML DB (XDB), and XML Developer's Kit (XDK). Unless you specify otherwise, all these components automatically get installed with the latest versions of an Oracle database (11g and later). If you chose not to install these components, you will need to install them before you install P6 EPPM. See the *Oracle Multimedia's User's Guide* on the Oracle Technology Network (OTN) for information on how to install these components.

## Creating the Database Structure for Oracle and Loading Application Data

The Oracle database administrator (DBA) creates the P6 EPPM database, then runs P6 EPPM SQL scripts, which create each database's structure (tables, indexes, relationships, etc.).

### Notes:

- Oracle must be run in Dedicated Mode (rather than MTS mode).
- If you need to use the Euro symbol in any Western European language, you must use codepage WE8MSWIN1252 or UTF8. Please note, if you change the NLS\_LENGTH\_SEMANTICS parameter from BYTE to CHAR, you will not affect the software. Oracle recommends using CHAR if using UTF8 because some characters are two or three bytes.

These instructions assume you are an Oracle DBA or are familiar with administering Oracle databases. They also assume you have set up an Oracle server instance and configured your network. You must complete the steps in the order specified. If you have any questions about the manual setup process, please contact Oracle Global Customer Support before proceeding.

You can also use a wizard that automatically creates the database structures and loads the data for you. For more information, see the *P6 EPPM Installation and Configuration Guide*.

Oracle recommends that you use SQL Plus to run scripts referenced in the following instructions.

## Creating the P6 EPPM Database Structure for Oracle

Complete the following steps to create the P6 EPPM Oracle database structure.

### Copying the Script Files to a Local Drive

To copy the script files:

- 1) Copy the `\database` folder to a local drive from the physical media or download.

### Grant Privileges to the SYSTEM User

Before installing P6 EPPM, execute the following steps:

- 1) Navigate to the following location, open the designated script in a text editor, and modify the schema user reference to match your actual schema user name:

```
\scripts\install\PM_<release_level>\manual_script_before_install.sql
```

You must apply grant options to the SYSTEM schema user or a custom user associated with the Oracle DBA role. If you plan to use a custom schema user (other than SYSTEM) to execute steps which require a DBA role, then you must update the references to SYSTEM in the script with the new custom schema user associated with the DBA role.

- 2) From the command line, execute: **sqlplus sys/password@<db\_tns\_names\_entry> as sysdba**
- 3) Go to `p6suite\database\scripts\install\PM_<release_level>`, and execute **manual\_script\_before\_install.sql**.

This script grants SELECT and EXECUTE privileges with grant option to SYSTEM, or a custom DBA username if you prefer to use one, for the following sys objects:

```
SELECT
```

- ▶ sys.DBA\_VIEWS
- ▶ sys.V\_\$TRANSACTION
- ▶ sys.GV\_\$TRANSACTION

```
EXECUTE
```

- ▶ sys.DBMS\_DBMS\_REPUTIL
- ▶ sys.DBMS\_DBMS\_LOB
- ▶ sys.DBMS\_SQL
- ▶ sys.DBMS\_JOB
- ▶ sys.DBMS\_RANDOM

---

**Note:** For more information about the listed sys objects, refer to the Oracle Database documentation.

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## Creating the Database Tablespaces for Oracle

To create database tablespaces:

- 1) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<system>/password@<db\_tns\_names\_entry>**:
  - b. Go to `\database\scripts\install\PM_<release_level>` and execute the **orpm\_init\_db.sql** script.

This script creates the following tablespaces:

- PMDB\_DAT1
- PMDB\_NDX1
- PMDB\_LOB1
- PMDB\_PX\_DAT1

If you want to change the names of the tablespaces that are listed above, you must modify the **orpm\_init\_db.sql** script before you execute it.

---

### Notes:

- Do not use special characters in the database name, privileged user, public user, or PX reporting user name, for example: { } [ ] : ; < > , . ? ! @ # \$ % ^ & \* ( ) - \_ | / \ ~ `
  - Instead of running the **orpm\_init\_db.sql** script, you can manually create a database with system, temporary, and undo tablespaces. Oracle recommends that you create a database with a 500 MB temporary tablespace and a 500 MB undo tablespace. Make sure that the Oracle client can connect to the database. Refer to your Oracle database documentation if you are unfamiliar with this process.
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## Creating Users and Tables for Oracle

The scripts in this task are located in:

`\database\scripts\install\PM_<release_level>`

To create users and tables:

- 1) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<system>/password@<db\_tns\_names\_entry>**
  - b. Execute the **orpm\_create\_users.sql** script.

Running the **orpm\_create\_users.sql** script automatically creates database user names: admuser, privuser, pubuser, pxrptuser, and bgjobuser. If you want to create non-default usernames, you must first open the script in a text editor and then replace the default references before you run the script.

Running the **orpm\_create\_users.sql** script references the following default tablespace names: PMDB\_DAT1, PMDB\_NDX1, PMDB\_LOB1, and PMDB\_PX\_DAT1. If you created the tablespaces using non-default names, you must first open the script in a text editor and replace the default references before you run the script.

---

**Note:** Do not use special characters in the database name, privileged user, public user, or PX reporting user name, for example: { } [ ] : ; < > , . ? ! @ # \$ % ^ & \* ( ) - \_ | / \ ~ `

---

- c. Execute the **orpm\_grant\_privileges.sql** script.

Running the **orpm\_grant\_privileges.sql** script references the following database user names: admuser, privuser, pubuser, pxrptuser, and bgjobuser. If you want to create non-default usernames, you must first open the script in a text editor and then replace the default references prior to running the script.

- 2) Execute the following steps:

- a. From the command line, execute: **sqlplus**  
**<admuser>/password@<db\_tns\_names\_entry>**

- b. Execute the **orpm\_tables.sql** script.

Running the **orpm\_tables.sql** script references the following default user names: privuser, pubuser, and pxrptuser. If you created non-default user names, you must first open the script in a text editor and replace the default references before you run the script.

Running the **orpm\_tables.sql** script references the following default tablespace names: PMDB\_DAT1, PMDB\_LOB1, and PMDB\_PX\_DAT1. If you created the tablespaces using non-default names, you must first open the script in a text editor and replace the default references before you run the script.

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## Installing Sample Data and Creating Your P6 EPPM Admin Superuser Password for Oracle

To install sample data:

- 1) Open command prompt (if Windows) or terminal (if UNIX) and connect to your database using the following command:

```
sqlplus sys/password@dbservicename as sysdba
```

- 2) Execute the following commands in the same window:

```
noaudit policy ORA_SECURECONFIG
noaudit policy ORA_LOGON FAILURES
```

- 3) Close the window.

- 4) Open a fresh command prompt (if windows) or terminal (if UNIX) and then change your directory to the location of the rundataloader.bat (.sh) file, which is on the root of the database folder by default.

- 5) Execute a statement similar to one of the following:

- ▶ Use this command if you want to load sample data into a non-production environment.

**If you are using Windows**

```
rundataloader.bat sample:pmdb_mk.zip  
<admuser>@oracle:<host>:<port>:<SID_name>  
rundataloader.bat sample:pmdb_mk.zip  
<admuser>/ <admuser_password>@oracle:<host>:<port>/ <service_name>
```

**If you are using Unix**

```
./rundataloader.sh sample:pmdb_mk.zip  
admuser@oracle: host: port: <SID_name>  
./rundataloader.sh sample:pmdb_mk.zip  
<admuser>/ <admuser_password>@oracle:<host>:<port>/ <service_name>
```

- ▶ Use this command if you do not want to load sample data. Empty data is loaded in a secure state and includes only the basic information needed to run the P6 EPPM database.

**If you are using Windows**

```
rundataloader.bat sample:pmdb_mk_empty.zip  
admuser@oracle: host: port: <SID_name>  
rundataloader.bat sample:pmdb_mk_empty.zip  
<admuser>/ <admuser_password>@oracle:<host>:<port>/ <service_name>
```

**If you are using Unix**

```
./rundataloader.sh sample:pmdb_mk_empty.zip  
<admuser>@oracle: host: port: <SID_name>  
./rundataloader.sh sample:pmdb_mk_empty.zip  
<admuser>/ <admuser_password>@oracle:<host>:<port>/ <service_name>
```

---

**Note:**

- For the connection strings above: <admuser> is the database admin user that you created, <admuser\_password> is the password for the database admin user, <host> is the server machine name or IP address where Oracle is installed, <port> is the port number that Oracle is using (the default is 1521), <SID\_name> is the database SID (for example, PMDB), and <service\_name> is the database service name (for example, orcl.us.oracle.com)
- If you use the connection string that is associated with a service name and do not include <admuser\_password> in your connection string, you will experience a Java error and no data will be loaded into your environment.

- 
- 6) Do the following:
    - a. In the "WARNING:This operation will destroy existing data in the database: Do you wish to continue? (Y or N)" prompt, enter: **Y**.
    - b. In the "Password for admuser:" prompt, enter the the password of your admuser or custom administrative user that you created.
    - c. In the "Please select a password for the P6 'admin' SuperUser account" prompt, enter or verify your superuser password.

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## Creating Remaining Database Objects for Oracle

To create the remaining database objects:

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**Note:** After each step, log out of the database.

---

- 1) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<admuser>/password@<db\_tns\_names\_entry>**
  - b. Go to `\scripts\install\PM_<release_level>` and execute the **orpm\_admuser.sql** script.

Running the **orpm\_admuser.sql** script references the following default user names: admuser, privuser, and pxrptuser. If you created non-default user names, you must open the script in a text editor and then replace the default references before you run the script.

Running the **orpm\_admuser.sql** script references the following default tablespace names: PMDB\_NDX1 and PMDB\_PX\_DAT1. If you created the tablespaces using non-default names, you must open the script in a text editor and then replace the default references before you run the script
- 2) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<privuser>/password@<db\_tns\_names\_entry>**
  - b. Go to `\scripts\source\PM_<release_level>` and execute the **orpm\_privuser.sql** script.

Running the **orpm\_privuser.sql** script references the admuser name. If you created non-default user names, you must open the script in a text editor and then replace the default references before you run the script.
- 3) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<pubuser>/password@<db\_tns\_names\_entry>**
  - b. Go to `\scripts\source\PM_<release_level>` and execute the **orpm\_pubuser.sql** script.

Running the **orpm\_pubuser.sql** script references the admuser name. If you created non-default user names, you must open the script in a text editor and then replace the default references before you run the script.
- 4) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<pxrptuser>/password@<db\_tns\_names\_entry>**
  - b. Go to `\scripts\source\PM_<release_level>` and execute the **orpm\_pxrptuser.sql** script.

Running the **orpm\_pxrptuser.sql** script references the admuser name. If you created non-default user names, you must open the script in a text editor and then replace the default references before you run the script.

- 5) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<bgjobuser>/password@<db\_tns\_names\_entry>**
  - b. Go to `\scripts\source\PM_<release_level>` and execute the **orpm\_bguser.sql** script  
Running the **orpm\_bguser.sql** script references the admuser name. If you created non-default user names, you must open the script in a text editor and then replace the default references before you run the script.
- 6) Execute the following steps:
  - a. From the command line, execute: **sqlplus**  
**<system>/password@<db\_tns\_names\_entry>**
  - b. Go to `\scripts\install\PM_<release_level>` and execute the **orpm\_reset\_priv.sql** script.  
Running the **orpm\_reset\_priv.sql** script references the following default user names: admuser, pxrptuser, and bgjobuser. If you created non-default user names, you must open the script in a text editor and then replace the default references before you run the script.  
Running the **orpm\_reset\_priv.sql** script references the following default tablespace names: PMDB\_DAT1, PMDB\_NDX1, PMDB\_LOB1, and PMDB\_PX\_DAT1. If you created the tablespaces using non-default names, you must open the script in a text editor and then replace the default references prior to running the script.
- 7) Do the following:
  - a. Log into the **databaselogins.bat** (on Windows) or **databaselogins.sh** (on Unix) database as admuser, or use your custom administrative user name if you created one.
  - b. Update the privuser name and password to match what you used when you created your user names and passwords.

### Dropping P6 EPPM Database Objects for Oracle

If you make a mistake or want to recreate the database objects for the P6 EPPM database:

- 1) Go to `\database\scripts\install\PM_<release_level>` and execute the **orpm\_drop\_users.sql** script. This will drop admuser, privuser, pubuser, bgjobuser, and PxRptUser and their objects.
- 2) Start over at **Creating Users and Tables for Oracle** (on page 8).

### Changing the Database Base Currency

**Caution:** You cannot change the base currency once projects begin.

After manually creating and configuring the P6 EPPM database, you must change the base currency if you do not want the databases to use US dollars (\$) as the base currency.

## The Base Currency

The base currency is the monetary unit used to store cost data for all projects in the database and is controlled by a global administrative setting. The default base currency for P6 EPPM is US dollars (\$). The view currency is the monetary unit used to display cost data in P6 EPPM and is controlled by a user preference.

The exchange rate for the base currency is always 1.0. When a user selects a different currency than the base currency to view cost data, the base currency value is multiplied times the current exchange rate for the view currency to calculate the values displayed in cost and price fields.

For example, if the base currency is US Dollars, the view currency is Euros, and the exchange rate for Euros is \$1 = €0.75, a value of \$10 stored in the database is displayed as €7.5 in cost and price fields. Similarly, if you enter €7.5 in a cost or price field, it is stored in the database as \$10.

When data is displayed in a view currency that is different than the base currency, some cost and price values can vary slightly (e.g., due to rounding). As long as the correct base currency is selected during database installation, a user can view completely accurate cost and price data by changing the view currency to match the base currency.

## Reviewing Currency Choices

To change the base currency you need to edit and run the P6 EPPM script provided. By default, US dollars is the base currency, and USD is the short name used in the script. To know which short name to use, review the list of available short names for P6 EPPM by running the following query on the P6 EPPM database:

```
select curr_type, curr_short_name from currtype;
```

## Changing the Base Currency

To change the base currency:

- 1) On the P6 EPPM physical media or download:
  - a. Browse to \Database\scripts\common.
  - b. Copy this script to a local drive:  
For Oracle: **or\_set\_currency.sql**
- 2) If you copied the script from the physical media, turn off the script's read-only attribute. Since files on physical media are read-only, this attribute turns on when you copy a file from a CD or DVD.
  - a. In Windows Explorer, right-click the file.
  - b. Choose **Properties**.
  - c. Clear the **Read-Only** option.
- 3) Open the script for editing and locate the line containing **v\_new\_base\_currency: = 'USD'**
- 4) Replace USD with the currency short name of your choice.
- 5) Save your changes and run the modified script.

## Private Database Credentials for P6 EPPM

The P6 server and P6 Professional components obtain their run-time database connection credentials from a credential configuration table in the P6 EPPM database. The P6 run-time database credentials (known as privuser or P6 private database login) are stored in an encrypted format in this special P6 configuration table. Any time that you change or rotate the privuser password credentials in your Oracle or MS SQL Server database, you must re-synchronize the stored credentials in the P6 credential table by using the Database Login tool.

Because encryption algorithms are often enhanced in newer releases, Oracle highly recommends that you reset these stored privuser credentials when you perform a major version upgrade of P6 EPPM. By resetting the stored credentials, the new encryption algorithm can be applied to other stored credentials (for example, pubuser) in the P6 EPPM credential table. For information about resetting private database passwords, see **Resetting Private Database Passwords** (on page 14).

---

**Note:** This tool does not reset database user logins or passwords. Administrators should use SQL Developer or other DBA consoles to set or reset database user passwords.

---

## Resetting Private Database Passwords

Complete the following steps to reset private database passwords to use the new encryption algorithm:

- 1) Go to **P6 EPPM <release\_level>\database** and run **databaselogins.bat** (with Windows) **databaselogins.sh** (with UNIX or Linux).
- 2) On the **Database Connection** dialog box:
  - a. Select the database.
  - b. Type the user name and password of a privileged database user (for example, privuser). This login should have administrative rights on the database.
  - c. Enter the host address, host port, and database/instance name specific to your installation. The Port field displays the default port for the database type you selected.
  - d. Click **Next**.
- 3) On the **Private Database Logins** dialog box:
  - a. Select the private database user name that you wish to reset.
  - b. Highlight the password and change it (or simply re-enter the existing password).
  - c. Click the **Update Password** button.

---

**Note:** To reverse a change, click **Undo**.

---

- d. Click **Save**.
- e. Click **OK** to exit the Database Logins tool.

## Adding Private Database Logins for P6 EPPM

Complete the following steps to add private database logins for P6 EPPM:

- 1) Go to **P6 EPPM <release\_level>\database** and run **databaselogins.bat** (with Windows) **databaselogins.sh** (with UNIX or Linux).
- 2) On the **Database Connection** dialog box:
  - a. Select the database.
  - b. Type the user name and password of a privileged database user (for example, privuser). This login should have administrative rights on the database.
  - c. Enter the host address, host port, and database/instance name specific to your installation. The Port field displays the default port for the database type you selected.
  - d. Click **Next**.
- 3) On the **Private Database Logins** dialog box:
  - a. Click **Add**.
  - b. Enter a user name.
  - c. Enter a password.

---

**Note:** To reverse a change, click **Undo**. Undo will reverse any changes made during the current session.

---

- d. Click **Save**.
- e. Click **OK** to exit.

## Modifying Private Database Logins for P6 EPPM

Complete the following steps to modify private database logins:

- 1) Go to **P6 EPPM <release\_level>\database** and run **databaselogins.bat** (with Windows) **databaselogins.sh** (with UNIX or Linux).
- 2) On the **Database Connection** dialog box:
  - a. Select the database.
  - b. Type the user name and password of a privileged database user (for example, privuser). This login should have administrative rights on the database.
  - c. Enter the host address, host port, and database/instance name specific to your installation. The Port field displays the default port for the database type you selected.
  - d. Click **Next**.
- 3) On the **Private Database Logins** dialog box:
  - a. Select the private database user name that you wish to modify.
  - b. Enter a new user name.
  - c. Highlight the password, and change it.
  - d. Click the **Update Password** button.

---

**Note:** To reverse a change, click **Undo**. Undo will reverse any changes made during the current session.

---

- e. Click **Save**.
- f. Click **OK** to exit the Database Logins tool.

### Deleting Private Database Logins for P6 EPPM

Complete the following steps to delete private database logins for P6 EPPM:

- 1) Go to **P6 EPPM <release\_level>\database** and run **databaselogins.bat** (with Windows) **databaselogins.sh** (with UNIX or Linux).
- 2) On the **Database Connection** dialog box:
  - a. Select the database.
  - b. Type the user name and password of a privileged database user (for example, privuser). This login should have administrative rights on the database.
  - c. Enter the host address, host port, and database/instance name specific to your installation. The Port field displays the default port for the database type you selected.
  - d. Click **Next**.
- 3) On the **Private Database Logins** dialog box:
  - a. Select the private database user name that you wish to remove.

---

**Note:** You must have at least one private user name for the P6 EPPM database at all times.

---

- b. Click **Delete**.

---

**Note:** To reverse a change, click **Undo**. Undo will reverse any changes made during the current session.

---

- c. Click **Save**.
- d. Click **OK** to exit the Database Logins tool.

## Installing P6 EPPM Applications

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Run **setup.exe** in the Primavera P6 Enterprise Project Portfolio Management physical media or download to install the following P6 EPPM applications:

---

**Note:** You do not have to install all applications; you can pick and choose what you install. However, you must install P6 to run the other P6 EPPM applications.

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- ▶ P6 Team Member (includes P6 Team Member Web and E-mail Statusing Service)

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**Notes:**

- You will need to configure E-mail Statusing Service separately. The installation wizard will provide the E-mail Statusing Service files and you will use the config.properties file to set up this service. See the *P6 EPPM System Administration Guide*.
  - P6 mobile supports SSL (https) only when it has a certificate signed by a valid authority.
- 

- ▶ P6 EPPM Web Services
- ▶ P6 Professional Cloud Connect

Select the P6 Professional Cloud Connect install option if you plan to use P6 Professional with an P6 EPPM Oracle database on the cloud by connecting to a remote service. The wizard sets up a remote method of access to connect to the EPPM database and the P6 APIs. For more details on establishing the P6 Professional Cloud Connect database connection in P6 Professional, see the *P6 Professional Installation and Configuration Guide (P6 EPPM)*.

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**Note:** The wizard will also install P6 Integration API (in remote mode) by default.

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- ▶ P6 Integration API (remote mode only)
- 

**Note:** Oracle provides a separate installer for P6 Integration API local mode. See the *P6 Integration API Configuration Guide*.

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- ▶ P6 mobile
- 

**Notes:**

- P6 mobile apps are downloaded through the Apple App Store or the Google Play Store. See the *P6 Team Member User's Guide*.
  - P6 mobile supports SSL (https) only when it has a certificate signed by a valid authority.
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Based on whether you are installing or upgrading, see one of the following books:

- ▶ *P6 EPPM Installation and Configuration Guide*
- ▶ *P6 EPPM Upgrade and Configuration Guide*

# Legal Notices

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