

Oracle
Primavera
P6 Professional Installation and Configuration Guide (Standalone) for
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About This Guide

Scope

This guide describes how to install and configure P6 Professional while using SQLite Database as a storage solution.

Audience

Database administrators should use this guide.

Using This Guide

This guide assumes you can perform common database administration procedures and have experience using the command line.

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Required Downloads and Reference Documentation

Media Pack Downloads: Compressed archive files for software and documentation downloads.

From within the media pack, download the following:

- ▶ P6 Professional
- ▶ P6 Professional Documentation

Reference Documentation

- ▶ **Tested Configurations Document:** Contains tested environment configurations and version information for tested platforms, operating systems, and third-party software components for P6 Professional.

About P6 Professional Standalone

P6 Professional Standalone uses a *P6 Pro Standalone (SQLite)* database connection running on a SQLite database. A standalone implementation supports all of the Project Management functionality of P6 Professional except for the following:

- ▶ Update baseline
- ▶ Job Services – Jobs cannot be scheduled. However, the user can use the Windows scheduler to invoke the command-line interface to import, export, and run batch reports.
- ▶ Risk Analysis

- ▶ Any existing Java-based integration components developed by the customer using the P6 Remote Integration API (RMI) is not supported with a SQLite database.
- ▶ Advanced XML import options

Note: If you choose to continue to use Oracle XE database, the features listed above are retained.

Additionally, P6 Professional Standalone is single-user implementation. The only user in a P6 Professional Standalone implementation is an Admin Superuser. As a single-user implementation, any features intended for use in a multiple-user implementation are not available in P6 Professional Standalone, including:

- ▶ User administration
- ▶ Security profiles
- ▶ Email
- ▶ Project access (all projects are opened in shared mode)
- ▶ Checking out and checking in projects
- ▶ Saving or importing layouts for all users or other users

If you need a project management solution for multiple users, see the following documents to install an enterprise-wide solution:

- ▶ *P6 Professional Installation and Configuration Guide (Oracle Database)*
- ▶ *P6 Professional Installation and Configuration Guide (Microsoft SQL Server Database)*

Standalone Database FAQ

SQLite is the default database type for a P6 Professional standalone database.

Why SQLite?

- ▶ Prior to R8.4, P6 Professional standalone accessed a locally installed Oracle XE database. Due to the complexity of Oracle XE software and issues associated with it, an embedded SQLite database is available as an alternative data store for P6 Professional standalone version.

What are the advantages of SQLite?

- ▶ No separate install of Database Management Software (DBMS) is required. The SQLite DBMS is embedded in the P6 Professional application.
- ▶ With embedded SQLite database as the data store, a standalone install becomes a true single-user system.
- ▶ Data is stored in a single file on the client workstation's disk, so you can easily share the entire database with a colleague.
- ▶ The SQLite Database size can grow as needed. It is limited only by available disk space and the file size limitation of your filesystem. (See <https://www.sqlite.org/limits.html>.) Tests verify that SQLite behaves correctly when a database reaches the maximum file size of the underlying filesystem (which is usually much less than the maximum theoretical database size) and when a database is unable to grow due to disk space exhaustion.

What are the disadvantages of SQLite?

- ▶ P6 Professional (SQLite) databases cannot be used for a workgroup.
- ▶ Update Baseline and features on the advanced tab of XML Import are not currently available on SQLite. Additionally Primavera Risk Analysis integration or other integrations that use the P6 Professional API are not supported.

Should I continue using Oracle XE as my standalone database or use SQLite?

Use P6 Professional (SQLite) standalone DB if:

- ▶ You are looking for the simplest way to have a standalone Primavera P6 database.
- ▶ You are not allowed to install programs outside of the Windows Program Files folder.
- ▶ You want to be able to copy the entire database as a single file to share with colleagues.

Use Oracle XE standalone database if:

- ▶ You need to run Update Baseline and features on the advanced tab of XML Import.
- ▶ You need integration with Primavera Risk Analysis.
- ▶ You prefer to use Oracle XE.

How do I upgrade my existing standalone database to the current schema?

The Standalone Upgrade Utility upgrades the schema for an existing P6 Professional database with Oracle XE or Microsoft SQL Server 2005 Express Edition SP3. During installation, you can install the Standalone Upgrade Utility, which you can run at any time. See ***Running the Standalone Upgrade Utility*** (on page 20) for details.

How do I migrate my existing standalone database to SQLite?

After upgrading the schema, you can use the Standalone Database Migration Tool to migrate an existing P6 Professional database from Oracle XE or Microsoft SQL Server 2005 Express Edition SP3 to SQLite. The Standalone Database Migration Tool is installed along with P6 Professional and you can run it at any time. See ***Running the Standalone Database Migration Tool*** (on page 21) for details.

What happens when I migrate my Oracle XE database to SQLite?

- ▶ A new database is added as a single file on your hard disk.
- ▶ A connection is made to the new P6 Professional (SQLite) database.
- ▶ Your existing Oracle XE database remains available.

I did not upgrade my schema or migrate my database immediately after running the Installation Wizard. Can I still upgrade and migrate my existing standalone database?

You can run the Standalone Upgrade Utility or the Standalone Database Migration Tool to upgrade or migrate your database at any time.

Note: The Standalone Upgrade Utility is not installed by default. If you did not install it, rerun the P6 Professional Installation Wizard. See ***Upgrading with an Oracle XE or Microsoft SQL Express Database*** (on page 19) for details.

What do I do if I need to run Update Baseline, advanced features of XML Import, or Primavera Risk Analysis on my standalone database?

These features are not supported by the P6 Professional (SQLite) database. They continue to be supported on Oracle XE and Microsoft SQL Server 2005 Express Edition SP3 databases.

I previously installed Oracle XE database management software. How do I install SQLite database management software?

SQLite is built into P6 Professional. By installing P6 Professional 8.4 or higher, you have the ability to create or attach to a P6 Professional (SQLite) database. A separate install of SQLite software is not needed.

I have migrated to SQLite and do not need my Oracle XE database. Do I need to uninstall Oracle XE?

Oracle XE software is not removed automatically. You can use Windows Programs and Features to uninstall Oracle XE software.

Can I share my new SQLite database with my workgroup?

P6 Professional (SQLite) databases are true single-user databases that cannot be used for a workgroup.

Can I create more than one SQLite database?

Yes, each SQLite database is fully independent and exists in a different file on your computer's disk drive.

I have a P6 Professional 7.x database. How do I migrate it to SQLite?

Upgrade your P6 Professional application and database from P6 Professional 7.0.3 to P6 Professional 8.4.0 with an existing Oracle XE database. Then run the P6 Professional Standalone Database Migration Tool to migrate data from your Oracle XE database to SQLite.

Resources Needed for Installation

Standalone installations require preparation and may take as little as an hour to complete but, depending on the organization and accessibility of the system administrator rights, it may take longer.

Your IT staff may be required to assist you with the installation and configuration of P6 Professional in your organization. An IT professional or an end user with a familiar degree of computer knowledge can complete a standalone installation without assistance when this documentation is used as part of the preparation.

Component Descriptions

Installing P6 Professional standalone means you are using your machine for both the client application software and the server and database functionality required for the software to operate in a standalone environment. The P6 Professional Standalone Installation option installs the following:

▶ **Database Server**

The standalone installation installs SQLite. This database server component of the standalone installation is required to store the project management databases on an individual computer.

Notes:

- SQLite components are always installed, regardless of which installation or migration scenario you choose.
- If Oracle Database Express Edition is already installed on the client computer, you can choose to leave it in place; the installer will still install SQLite.

▶ Database

The project management database stores the project management data used by P6 Professional. The database is installed during the standalone installation. The name of the default database alias shown on the login screen is PMDB.

▶ Desktop Client

P6 Professional enables users to access the project management database to plan and control a large number of projects.

Client Operating System Requirements

See the *Tested Configurations* document for the most recent information.

Installing P6 Professional Standalone

Use the P6 Professional Installation Wizard to install P6 Professional, P6 Visualizer, and Job Service.

Running the Installation Wizard

When you run the Installation Wizard, you are presented with the following installation options: **Typical** and **Advanced**.

Use the **Typical** installation option to install typical components.

Use the **Advanced** installation option when the Typical option does not apply. For example if you want to control the installation of specific P6 Professional components, such as Visualizer and the P6 Professional Database Tools.

Before You Begin

Before you run the Installation Wizard, review the following items that may impact a successful installation:

You must have full administrative rights to the computer on which you are installing P6 Professional.

- ▶ Download and extract (unzip) the software to a folder on the local hard drive, such as C:\Temp.
- ▶ Avoid downloading the software too deep within the Windows folder structure. It can limit the file name to 256 characters.

- ▶ Even though you are running P6 Professional as a standalone, a network interface card or modem must be installed and TCP/IP networking software must be running on the computer.
- ▶ Ensure the DEP (Data Execution Prevention) setting, Turn on DEP for all programs and services except those I select, is not enabled as it can block the creation of the database.
- ▶ Ensure anti-virus software, anti-spyware software, security software and/or any firewalls are not enabled as they may block programs, protocols, or ports necessary for database creation.
- ▶ Ensure the UAC (User Account Control) is not enabled as it may block the installation and creation of the database.

Typical Installation

To install P6 Professional with the **Typical** option:

- 1) Download and extract the media zip file locally to the client computer.
- 2) In the extracted media zip file, in the **Client_Applications** folder, double-click **P6ProfessionalSetup.exe** to launch the installation wizard.

Note: Microsoft .NET Framework and Windows Installer are required to run P6 Professional. If they are not installed, follow the prompts to install them and then restart your computer as needed. Allow **P6ProfessionalSetup.exe** to run when your computer restarts and follow the prompts to complete installation of the required components.

- 3) Select the **Typical** option.
- 4) Click **OK**.
- 5) Click **Install**.

When P6 Professional is installed, the **Next Steps** window appears.

- 6) Click **OK** to automatically run Database Configuration immediately after installation. See **Running Database Configuration After Installation** (on page 12) for details.

Note: You do not need to run Database Configuration immediately after installation, however you do need to run it before you can use P6 Professional. You can run Database Configuration manually at any time. See **Running Database Configuration Manually** (on page 26) for details.

Advanced Installation

Use the **Advanced** installation option when the Typical option does not apply. For example if you want to control the installation of specific P6 Professional components, such as Visualizer and the P6 Professional Database Tools.

To install P6 Professional Standalone with the **Advanced** option:

- 1) Download and extract the media zip file locally to the client computer.
- 2) In the extracted media zip file, in the **Client_Applications** folder, double-click **P6ProfessionalSetup.exe** to launch the installation wizard.

Note: Microsoft .NET Framework and Windows Installer are required to run P6 Professional. If they are not installed, follow the prompts to install them and then restart your computer as needed. Allow **P6ProfessionalSetup.exe** to run when your computer restarts and follow the prompts to complete installation of the required components.

- 3) Select the **Advanced** option.
- 4) Click **OK**.
- 5) Select the options to be installed.
- 6) Click **Next**.
Click **Install**.
- 7) Click **OK** to automatically run Database Configuration immediately after installation. See ***Running Database Configuration After Installation*** (on page 12) for details.

Notes:

- You do not need to run Database Configuration immediately after installation, however you do need to run it before you can use P6 Professional. You can run Database Configuration manually at any time. See ***Running Database Configuration Manually*** (on page 26) for details.
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Removing Specific Drivers from Installation

Under certain circumstances, you might want to restrict the drivers available with a P6 EPPM installation. For example, if you want to prevent users from installing standalone instances of the application. It is possible to exclude unnecessary drivers from the installation whether you install from the installation wizard, deploy ClickOnce, or install from the command line, and for both JSON and XML requests.

Install Wizard: During the advanced installation process, in the Primavera Professional Common Components branch of the installer, you can expand the Drivers section and clear the options for any drivers you do not wish to install.

ClickOnce Deployments: In the P6 Pro Enterprise Deployment Utility, in the Supported Drivers section, clear the options for any drivers you do not wish to install.

Command Line Installations: Use the /action parameter with the value DeleteDriver and specify the driver type to delete using the /dbtype parameter to update the bootstrap file. For example:

```
Primavera.Launcher.DBConfig.exe /action=DeleteDriver /dbtype=SQLite
```

JSON and XML: Use UnsupprtedDrivers tags to enclose a list of string tags containing the names of the drivers to exclude. Valid driver names are Oracle, SQLServer, CloudServer, and SQLite. For example:

XML

```
<UnsupportedDrivers>  
<string>SQLite</string>  
</UnsupportedDrivers>
```

JSON:

```
"UnsupportedDrivers":["SQLite", "Oracle"]
```

Running Database Configuration After Installation

If you selected the Run Database Configuration option during installation, the Database Configuration wizard launches automatically after P6 Professional installation is complete. Use Database Configuration to create a database connection for P6 Professional and Job Services.

Note: You can also run Database Configuration manually at any time. See *Running Database Configuration Manually* (on page 26) for details.

To run Database Configuration after installation, complete the following steps:

- 1) If Database Configuration does not launch automatically, click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, Database Configuration**.
- 2) Click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, Database Configuration**.
- 3) On the Database Configuration dialog box, click **Add** to create a new alias.
- 4) On the Driver Type list, select **P6 Pro Standalone (SQLite)**.
- 5) In the **Database Alias** field, enter a name for the new alias.
- 6) Choose to **Add a new standalone database and connection**.
- 7) Click **Next**.
- 8) In the **Login Name** field, enter a login name for the user of the new standalone database.
- 9) In the **Personal Name** field, enter the name of the person who will use the new standalone database.
- 10) In the **Enter new password** field and the **Confirm new password** field, enter a password for the user.
- 11) In the **Base Currency** section, supply the **Abbreviation**, **Name**, and **Symbol** for the base currency to be used for the new standalone database.
- 12) Click **Next**.
- 13) In the **File Name** field, optionally specify a location and name for the new database file.
- 14) Select the **Load sample data** option if you want to install sample projects.
- 15) Click **Test** to test the database connection. If the connection is successful, click **Save**. If the connection is not successful, revise the database connection information you provided.

Note: If you installed Job Service, repeat these steps to set up a database connection for Job Service.

16) After the installation is complete, restart your computer.

Configuring a Microsoft SQLite Server Database Connection From the Command Line

Note: Configuring a database from the command line requires that you pass the password you intend to use in plain text on the command line. Oracle recommends that after configuring the database, you change the password for security. Alternatively, use the graphical user interface for configuring databases, which does not require passing the password in plain text.

You can configure the database connection by opening a command window as an Administrator and running **Primavera.Launcher.DBconfig.exe**. You can find Primavera.Launcher.DBconfig.exe in the install location of P6 Professional. The default location for Primavera.Launcher.DBconfig.exe is: <local drive>\Program Files\Oracle\Primavera P6\P6 Professional

When you run Primavera.Launcher.DBconfig.exe you must also pass certain parameters. You can pass the parameters in any order, however you must include a space between each parameter and there must be no space between a parameter and its value. All parameters are case-sensitive except the boolean values "yes" and "no".

The following command line parameters are available:

Parameter	Description
/action=	Use this parameter to specify whether to Add a new database, or Edit or Delete an existing database. This parameter can also be used to AddorEdit a database alias, adding the alias if it does not exist, or editing it if it does. You can also use this parameter to DeleteDriver if you wish to exclude the specific driver types listed with the /dbtype parameter from the bootstrap file. This parameter is optional. If you do not pass this parameter, the default value will be used. The default value is Add.
/alias=	Use this parameter to set the name of the database alias. This parameter is mandatory.

/bcurrname=	<p>This parameter is only valid when creating a new standalone database.</p> <p>Use this parameter to set the name of the base currency for the database.</p> <p>This parameter is optional, but the value is mandatory. If you do not pass this parameter, the default value will be used. The default value is US Dollar.</p>
/bcurrshortname=	<p>This parameter is only valid when creating a new standalone database.</p> <p>Use this parameter to set the abbreviation of the base currency for the database.</p> <p>This parameter is optional, but the value is mandatory. If you do not pass this parameter, the default value will be used. The default value is USD.</p>
/bcurrsymbol=	<p>This parameter is only valid when creating a new standalone database.</p> <p>Use this parameter to set the symbol of the base currency for the database.</p> <p>This parameter is optional, but the value is mandatory. If you do not pass this parameter, the default value will be used. The default value is \$.</p>
/connectionString=	<p>Use this parameter to provide the connection string for a Cloud, Oracle or SQL Server database, or the location for an SQLite database.</p> <p>This parameter is mandatory.</p>
/dbtype=	<p>Use this parameter to specify the driver type to use for the database. Valid values are Oracle, SQLServer, and SQLite.</p> <p>This parameter is mandatory.</p>
/groupid=	<p>Use this parameter to provide the public group ID for the database. This ID must be an integer.</p> <p>This parameter is optional, but the value is mandatory. If you do not pass this parameter, the default value will be used. The default value is 1.</p>
/hidedbconfig=	<p>Use this parameter to hide access to the database configuration screens from the launcher dialog box. Valid values are Yes and No.</p> <p>This parameter is optional. The default value is no.</p>

<code>/keypath=</code>	<p>Use this parameter to provide the key name and the path your P6.key file. The value should be expressed as <Key Name>@<Key Store File Path>.</p> <p>Alternatively, use this parameter to switch on the option to use the default database keystore, by passing a null value, i.e. "".</p> <p>This parameter is optional if you choose to use the default database keystore.</p>
<code>/loadsampledataba=</code>	<p>This parameter is only valid when creating a new standalone database.</p> <p>Use this parameter to specify whether to load sample data into the new database. Valid values are Yes and No.</p> <p>This parameter is optional. The default value is yes.</p>
<code>/logfile=</code>	<p>Use this parameter provide the path and name for a log file.</p> <p>This parameter is optional. If you do not pass this parameter, the default log file will be created as Primavera.Launcher.DBConfig.log in the user's %TEMP% folder.</p>
<code>/password=</code>	<p>This parameter is only valid when creating a new standalone database.</p> <p>Use this parameter to provide the password for the user of the new standalone instance of P6 Professional.</p> <p>This parameter is mandatory when creating a new standalone database.</p>
<code>/pubername=</code>	<p>Use this parameter provide the pubuser name for the database.</p> <p>This parameter is mandatory, but applies only to Oracle and SQLServer databases.</p>
<code>/puberpwd=</code>	<p>Use this parameter provide the password for the pubuser in the database.</p> <p>This parameter is mandatory, but applies only to Oracle and SQLServer databases.</p>
<code>/readtimeout=</code>	<p>This parameter is only valid when connecting to a CloudServer database.</p> <p>Use this parameter to specify the number of seconds to wait for a response from the cloud database.</p> <p>This parameter is optional, but the value is mandatory. If you do not pass this parameter, the default value will be used. The default value is 900.</p>

/runtest=	Use this parameter to specify whether to test the database connection. Valid values are Yes and No . This parameter is optional. If you do not pass this parameter, the database will not be tested.
/uselocalrepository=	This parameter is only valid when connecting to a CloudServer database. Use this parameter to specify whether to enable the local cache database. Valid values are Yes and No . This parameter is optional. If you do not pass this parameter, the local cache database will be enabled.
/username=	This parameter is only valid when creating a new standalone database. Use this parameter to provide the username for the user of the new standalone instance of P6 Professional. This parameter is mandatory when creating a new standalone database.
/usesaml=	This parameter is only valid when connecting to a CloudServer database. Use this parameter to specify whether to use SAML authentication. Valid values are Yes and No . This parameter is optional. If you do not pass this parameter, SAML authentication will not be enabled.

Examples

Delete an alias:

- ▶ Primavera.Launcher.DBconfig.exe /dbtype="SQLite" /runsilent="Yes" /action="Delete" /alias="MyAlias"

Add an alias that does not use the default database key:

- ▶ Primavera.Launcher.DBconfig.exe /runsilent="Yes" /dbtype="SQLite" /alias="MySQLServerAlias" /connectionString="mysqlserver,4321/mysqldatabase" /pusername="sqlpubuser" /puserpwd="sqlpubuserpassword" /groupid=2 /keypath="mykey@C:\database key file\p6.key"

Create a new standalone database with the base currency as Euro:

- ▶ Primavera.Launcher.DBconfig.exe /runsilent="Yes" /dbtype="SQLite" /alias="MyStandaloneAlias" /connectionString="C:\My P6 Database\MyStandaloneDatabase.db" /username="myuser" /password="mypassword" /bcurrshortname="EUR" /bcurrname="Euro" /bcurrsymbol="€" /loadsampleddata="No"

Setting the Industry Type

After installing P6 Professional, you must set the industry type for the software. The industry type determines the terminology and default calculation settings that display in P6 Professional.

To set the industry type, complete the following steps:

- 1) Log in to P6 Professional.
- 2) Choose **Admin, Admin Preferences**.
- 3) Click the **Industry** tab.
- 4) Select the option that most closely aligns with your industry.

Note: If you set the industry type and later change it, the new industry setting is immediately effective for new users. However, the change will not take effect for users who have logged in since it was last set. For information on how to make it effective for existing users, refer to the article "How To Change The P6 Industry Type In P6 PPM (Professional), P6 EPPM R8.2 And Later Releases" (Doc ID 1386047.1) at <http://support.oracle.com>.

The following table lists each industry type and its corresponding terminology and default settings:

Industry Type	Industry Terminology Examples
Engineering and Construction	Budgeted Units Budgeted Cost Original Duration
Government, Aerospace, and Defense	Planned Units Planned Cost Planned Duration
High-Technology, Manufacturing, and Others	Planned Units Planned Cost Planned Duration
Utilities, Oil, and Gas	Budgeted Units Budgeted Cost Original Duration

Upgrading P6 Professional

Use the P6 Professional Installation Wizard to upgrade P6 Professional. For an upgrade, the P6 Professional Installation Wizard does the following:

- ▶ Replaces any previous versions of P6 Professional (release 15, 16, or version 7, 8.1, 8.2, 8.3, or 8.4) with P6 Professional Version 22.
- ▶ Upgrades the SQLite database, if needed.
- ▶ Upgrades the Oracle XE database or Microsoft SQL Server 2005 SP3 database to the current schema, if needed.
- ▶ Optionally migrates an Oracle XE database or Microsoft SQL Server 2005 SP3 database to a SQLite database. SQLite is the default database type for a P6 Professional standalone database.

Notes:

- If the currently installed version of P6 Professional is 32-bit, uninstall the existing version before upgrading to version 18.8 or later.
 - Versions earlier than P6 Professional 7.0 are no longer supported and cannot be upgraded.
 - P6 Professional and Job Services will be updated.
 - If you are migrating an Oracle XE database or a Microsoft SQL Server 2005 SP3 database to a SQLite database, you must first upgrade Oracle XE database or a Microsoft SQL Server 2005 SP3 database to the current schema.
 - The default location of the migrated database is the **Documents** folder; **P6Standalone.db** is the default filename.
 - Setup automatically configures the alias PMDB in the migrated SQLite database file.
 - Starting with version 8.1, Summary-Only projects are not supported in P6 Professional. During the P6 Professional database upgrade, existing Summary-Only projects are converted to standard projects, but will lose all summary data. You can import the summary project from Microsoft Project into the converted blank project, and then summarize the data. See the P6 Professional Help.
-

Running Upgrade Scripts with an Oracle XE Database

If you are upgrading from a previous version that uses an Oracle XE database, you must run scripts before upgrading:

- 1) Download and extract the media zip file locally to the client.
- 2) Go to `\database\scripts\install\PPM_<release level>` and update the following scripts in a text editor:
 - ▶ **manual_script_before_upgrade.sql**
If you are not using the schema names admuser, privuser, or pxrptuser, update the references with your actual admuser, privuser, and pxrptuser names. Default schema names are admprm\$pm and privprm\$pm.
 - ▶ **manual_script_before_install.sql**

By default, grant options are being made to the SYSTEM schema user. The upgrade requires entry of a DBA user account, so if you use SYSTEM, no update is needed. However, if you use another DBA account for the upgrade, update the references to SYSTEM with the actual DBA account.

- 3) From the command line, run `sqlplus sys/@<DBNAME> as sysdba` and enter the password when prompted.
where <DBNAME> is the Net Service Name for your database, which can be found in your **\$ORACLE_HOME\NETWORK\ADMIN\TNSNAMES.ORA** file.
- 4) Go to `\database\scripts\install\PPM_<release level>` and run **manual_script_before_upgrade.sql**.
For example, at the SQL prompt, enter
`@C:\P6_Professional_Database\database\scripts\install\PPM_15_01_00\manual_script_before_upgrade.sql.`
- 5) Go to `\database\scripts\install\PPM_<release level>` and run **manual_script_before_install.sql**.
For example, at the SQL prompt, enter
`@C:\P6_Professional_Database\database\scripts\install\PPM_15_01_00\manual_script_before_install.sql.`

Upgrading with an Oracle XE or Microsoft SQL Express Database

To upgrade P6 Professional with an Oracle XE or Microsoft SQL Server 2005 SP3 database, complete the following steps:

- 1) Download and extract the media zip file locally to the client computer.
- 2) In the extracted media zip file, in the **Client_Applications** folder, double-click **P6ProfessionalSetup.exe** to launch the installation wizard.

Note: Microsoft .NET Framework and Windows Installer are required to run P6 Professional. If they are not installed, follow the prompts to install them and then restart your computer as needed. Allow **P6ProfessionalSetup.exe** to run when your computer restarts and follow the prompts to complete installation of the required components.

- 3) Select the **Advanced** option.
- 4) Click **OK**.
- 5) Select the options to be installed.

Note: If you plan to upgrade an Oracle XE database or Microsoft SQL Server 2005 SP3 database, you must install the P6 Professional Standalone Upgrade Utility. To do this, expand **Primavera P6 Professional, P6 Professional Common Components, Tools for P6 Professional Database (Only)** and select **P6 Professional Standalone Upgrade Utility**.

6) Click **Next**.

7) Click **Install**.

When P6 Professional Standalone is installed, the **Next Steps** window appears.

8) As needed, select the following options:

- ▶ **Run Standalone Upgrade Utility:** Select this option to run the Standalone Upgrade Utility to upgrade the schema for an existing P6 Professional database with Oracle XE or Microsoft SQL Express 2005.
- ▶ **Run Standalone Database Migration Tool:** Select this option to run the Standalone Database Migration Tool to migrate an existing P6 Professional database from Oracle XE or Microsoft SQL Express 2005 to SQLite.
- ▶ **Run Database Configuration:** Select this option to run Database Configuration to set up a database connection for P6 Professional and Job Services.

Note: None of these options is required when you upgrade P6 Professional. You can run these utilities manually at any time.

9) Click **OK**.

The utilities for the selected options run. See *Running the Standalone Upgrade Utility* (on page 20), *Running the Standalone Database Migration Tool* (on page 21), and *Running Database Configuration After Upgrading* (on page 24) for details.

Running the Standalone Upgrade Utility

Use the Standalone Upgrade Utility to upgrade the schema for an existing P6 Professional database with Oracle XE or Microsoft SQL Server 2005 Express Edition SP3.

If you selected the **Run Standalone Upgrade Utility** option during installation, the Standalone Upgrade Utility launches automatically after P6 Professional installation is complete. You can also run it manually at any time.

To run the Standalone Upgrade Utility, complete the following steps:

- 1) If Standalone Upgrade Utility does not launch automatically, click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, P6 Professional Standalone Upgrade Utility**.
- 2) Click **Next**.
- 3) With Microsoft SQL Server 2005 Express Edition SP3 only, in the **User** field, enter the user name for the database. Otherwise, skip this step.
- 4) In the **Password** field, enter the password for the database.
- 5) Click **Next**.

- 6) After your credentials are verified, click **Next**.
- 7) Click **Finish**.

After running the Standalone Upgrade Utility, you can optionally migrate your existing P6 Professional database to SQLite. See *Running the Standalone Database Migration Tool* (on page 21) for details.

Running the Standalone Database Migration Tool

After upgrading the schema of your existing P6 Professional database with the Standalone Upgrade Utility, you can use the Standalone Database Migration Tool to migrate the database from Oracle XE or Microsoft SQL Server 2005 Express Edition SP3 to SQLite.

Note: The P6 Professional Standalone Database Migration Tool migrates a P6 Professional Standalone Database to SQLite from the following database platforms and schema only:

- OracleXE
- Microsoft SQL Server 2005 Express Edition SP3

It will not migrate a P6 Professional Standalone Database from any of the following:

- Full Oracle database platform
- Full SQL Server database platform

If you selected the **Run Standalone Database Migration Tool** option during installation, the Standalone Database Migration Tool launches automatically after P6 Professional installation is complete. You can also run it manually at any time.

To run the Standalone Database Migration Tool, complete the following steps:

- 1) If Database Configuration does not launch automatically, click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, P6 Professional Standalone Database Migration Tool**.
- 2) In the **Database** field, select the database alias for your existing standalone database.
- 3) In the **Password** field, enter the sa password for the existing standalone database.
- 4) In the **Administrative user name** field, enter the administrative user name for the existing standalone database.
- 5) In the **File name** field, click the **Browse** button and go to the location for the new SQLite database.
- 6) Click **Migrate**.

After migrating a standalone database, you must run Database Configuration to create a database connection for the new SQLite database. See *Running Database Configuration After Installation* (on page 12) for details.

Upgrading with a SQLite Database

To upgrade P6 Professional with a SQLite database, complete the following steps:

- 1) Back up the SQLite database by making a copy of the SQLite database file.

Caution: The installation wizard does not create a backup copy of the SQLite database file before upgrading.

- 2) Download and extract the media zip file locally to the client computer.
- 3) In the extracted media zip file, in the **Client_Applications** folder, double-click **P6ProfessionalSetup.exe** to launch the installation wizard.
- 4) Select the **Typical** option.
- 5) Click **OK**.
- 6) Click **Install**.
When P6 Professional is installed, the **Next Steps** window appears.
- 7) Click **OK** to automatically run Database Configuration immediately after upgrading.

Note: You do not need to run Database Configuration immediately after installation, however you do need to run it before you can use P6 Professional. You can run Database Configuration manually at any time. See *Running Database Configuration Manually* (on page 26) for details.

- 8) Select the **P6 Pro Standalone (SQLite)** driver type.
- 9) Select **Add a Connection to an Existing Standalone Database**.
- 10) Click **Browse**, and navigate to select the SQLite database file.
- 11) Click **Finish**.
- 12) Start P6 Professional.
The following message displays: "The application and database versions do not match. Click Exit to close the application."
- 13) Click **Exit**.
The following message displays: "Do you want to upgrade the SQLite database to latest schema?".
- 14) Click **Yes**.
- 15) Once the upgrade completes, click **OK**.

Unattended Database Migration Using the Standalone Database Migration Tool

After upgrading the schema of your existing P6 Professional database with the Standalone Upgrade Utility, you can use the Standalone Database Migration Tool to migrate the database from Oracle XE or Microsoft SQL Server 2005 Express Edition SP3 to SQLite.

You can run the Standalone Database Migration Tool in silent mode to perform an unattended migration. Unattended migrations do not require user interaction and are useful when migrating the databases on multiple systems.

Note: You cannot migrate from SQLite to another database, such as Oracle XE or Microsoft SQL Server Express Edition.

Running Unattended Database Migration from Oracle XE

To perform an unattended migration from **Oracle XE** to **SQLite**, complete the following steps:

- 1) Navigate to the folder in which P6 Professional is installed. For example **C:\Program Files\Oracle\Primavera P6\P6 Professional**.
- 2) From the command line, run **Primavera.SQLite.MigrateUI.exe** with the following flags set:
 - ▶ -s oraclexe
 - ▶ -dbname <//server:port/service name>
 - ▶ -adminuser <database admin user name>
 - ▶ -password <database admin user password>
 - ▶ -filename "<sqlite db file name>"

For example, to perform an unattended migration from Oracle XE to SQLite:

```
Primavera.SQLite.MigrateUi.exe -s oraclexe -dbname //localhost:1521/xe
-adminuser admin -password admin123 -filename "C:\data\pmdb_sqlite.db"
```

Note: If the specified SQLite database file does not exist, the Standalone Database Migration Tool automatically creates the file.

After migrating a standalone database, you must run **Database Configuration** to create a database connection for the new SQLite database. See **Running Database Configuration After Upgrading** (on page 24) for details.

Running Unattended Database Migration from Microsoft SQL Server Express Edition

To perform an unattended migration from **Microsoft SQL Server Express Edition** to **SQLite**, complete the following steps:

- 1) Navigate to the folder in which P6 Professional is installed.
For example: C:\Program Files\Oracle\Primavera P6\P6 Professional\
- 2) From the command line, run **Primavera.SQLite.MigrateUI.exe** with the following flags set:
 - ▶ -s sqlexpr
 - ▶ -dbname <sql server instance name>
 - ▶ -host <sql server host,port>
 - ▶ -adminuser sa
 - ▶ -password <sa user password>
 - ▶ -filename "<sqlite db file name>"

For example, to perform an unattended migration from Microsoft SQL Server Express Edition to SQLite:

```
Primavera.SQLite.MigrateUi.exe -s sqlexpr -dbname PMDB -host localhost,1433
-adminuser sa -password admin123 -filename "C:\data\pmdb_sqlite.db"
```

Note: If the specified SQLite database file does not exist, the Standalone Database Migration Tool automatically creates the file.

After migrating a standalone database, run **Database Configuration** to create a database connection for the new SQLite database. See *Running Database Configuration After Upgrading* (on page 24) for details.

Running Database Configuration After Upgrading

If you selected the Run Database Configuration option during installation, the Database Configuration wizard launches automatically after P6 Professional installation is complete. Use Database Configuration to create a database connection for P6 Professional and Job Services.

Note: You can also run Database Configuration manually at any time. See *Running Database Configuration Manually* (on page 26) for details.

To run Database Configuration after installation, complete the following steps:

- 1) If Database Configuration does not launch automatically, click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, Database Configuration**.
- 2) Click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, Database Configuration**.
- 3) On the Database Configuration dialog box, click **Add** to create a new alias.
- 4) On the Driver Type list, select **P6 Pro Standalone (SQLite)**.
- 5) In the **Database Alias** field, enter a name for the new alias.
- 6) Choose to **Add a new standalone database and connection**.
- 7) Click **Next**.
- 8) In the **Login Name** field, enter a login name for the user of the new standalone database.
- 9) In the **Personal Name** field, enter the name of the person who will use the new standalone database.
- 10) In the **Enter new password** field and the **Confirm new password** field, enter a password for the user.
- 11) In the **Base Currency** section, supply the **Abbreviation**, **Name**, and **Symbol** for the base currency to be used for the new standalone database.
- 12) Click **Next**.
- 13) In the **File Name** field, optionally specify a location and name for the new database file.
- 14) Select the **Load sample data** option if you want to install sample projects.
- 15) Click **Test** to test the database connection. If the connection is successful, click **Save**. If the connection is not successful, revise the database connection information you provided.

Note: If you installed Job Service, repeat these steps to set up a database connection for Job Service.

16) After the installation is complete, restart your computer.

Convert Methodologies to Projects

If you are upgrading from P6 Professional 7.0, you must migrate Methodology Management 7.0 data to P6 Professional Version 22 projects. Use Project Architect in the Project Management module (in P6 Professional 7.0) to convert the data from a methodology to a project.

Note: You can create only one project at a time. If you want all of your Methodology Management data moved to projects, contact Oracle Consulting to automate the process.

To convert Methodology Management data to a project:

- 1) Create a new EPS node in Project Management where you can store all your Methodology Management projects.
- 2) Use Project Architect in Project Management to create projects from Methodology Management data. For more information on using Project Architect, see the *Oracle Primavera P6 Project Management Reference Manual* for release 7.0

After you have converted all your Methodology Management data to projects, you can upgrade P6 Professional.

Installing Local Copies of P6 Professional and Visualizer Help

By default, online help for P6 Professional and Visualizer is hosted by Oracle. If you prefer to access Help locally, you can install a local copy of the Help.

Note: The hosted versions always contain the most current version of P6 Professional and Visualizer help.

To install a local of the P6 Professional and Visualizer help, complete the following steps:

- 1) Download the **Downloadable P6 Professional Help (client_help/zip/P6_Pro_Help.zip)** and extract it locally.
- 2) In the extracted zip file, double-click **P6ProHelpInstaller.msi** to launch the installation wizard.
- 3) Click **Next**.
- 4) Expand **Local Help Files**.
- 5) Do the following to install a local copy of P6 Professional help.

- a. Expand **PM Help**.
- b. Click the drop-down for the language you use in the P6 Professional user interface and select **Will be installed on local hard drive**.

Note: P6 Professional Help is available in English, French, German, Japanese, and simplified Chinese. Selecting any other language installs Help in English.

- 6) Do the following to install a local copy of Visualizer Help.
 - a. Expand **Visualizer Help**.
 - b. Click the drop-down for the language you use in the Visualizer user interface and select **Will be installed on local hard drive**.

Note: Visualizer Help is available in English only. Selecting any other language installs Help in English.

- 7) Click **Next**.
- 8) Click **Install**.
- 9) Click **Finish**.

Running Database Configuration Manually

Use Database Configuration to create or modify a database connection for P6 Professional and Job Services.

Creating a New Standalone Database

To create a new standalone database, complete the following steps:

- 1) Click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, Database Configuration**.
- 2) On the Database Configuration dialog box, click **Add** to create a new alias.
- 3) On the Driver Type list, select **P6 Pro Standalone (SQLite)**.
- 4) In the **Database Alias** field, enter a name for the new alias.
- 5) Choose to **Add a new standalone database and connection**.
- 6) Click **Next**.
- 7) In the **Login Name** field, enter a login name for the user of the new standalone database.
- 8) In the **Personal Name** field, enter the name of the person who will use the new standalone database.
- 9) In the **Enter new password** field and the **Confirm new password** field, enter a password for the user.
- 10) In the **Base Currency** section, supply the **Abbreviation**, **Name**, and **Symbol** for the base currency to be used for the new standalone database.
- 11) Click **Next**.

- 12) In the **File Name** field, optionally specify a location and name for the new database file.
- 13) Select the **Load sample data** option if you want to install sample projects.
- 14) Click **Test** to test the database connection. If the connection is successful, click **Save**. If the connection is not successful, revise the database connection information you provided.

Creating a New Connection to an Existing Standalone Database

To set up a new connection to an existing standalone database, complete the following steps:

- 1) Click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, Database Configuration**.
- 2) On the Database Configuration dialog box, click **Add** to create a new alias.
- 3) On the Driver Type list, select **P6 Pro Standalone (SQLite)**.
- 4) In the **Database Alias** field, enter a name for the new alias.
- 5) Choose to **Add a connection to an existing standalone database**.
- 6) Click **Next**.
- 7) In the **File Name** field, browse to the location of the existing standalone database.
- 8) Click **Test** to test the database connection. If the connection is successful, click **Save**. If the connection is not successful, revise the database connection information you provided.

Modifying a Connection to an Existing Standalone Database

To modify a connection to an existing database, complete the following steps:

- 1) Click **Start, All Programs, Oracle - Primavera P6, P6 Professional <release level>, P6 Professional <release level> Help and Tools, Database Configuration**.
- 2) On the Database Configuration dialog box, select the alias to modify from the alias list.
- 3) Modify the connection as needed.
- 4) Click **Test** to test the database connection. If the connection is successful, click **Save**. If the connection is not successful, revise the database connection information you provided.

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Oracle Primavera P6 Professional Installation and Configuration Guide (Standalone) for On-Premises

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