

ORACLE®

PRIMAVERA

**Manually Upgrading the P6 Professional Database for Oracle
Release 15.1**

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Overview of Manually Upgrading a P6 Professional Database

To manually convert your P6 Professional 7.0, 8.1, 8.2, 8.3, or 8.4 database to P6 Professional 15.1, follow the procedures described in this document. These procedures should be performed by an experienced database administrator. You should complete these processes in the order specified:

- ▶ Back up the existing P6 Professional database (also known as PMDB).
- ▶ If you are upgrading from R7.0, migrate all your methodologies. Use Project Architect in the Project Management module (R7.0) to convert the data from a methodology to a project. See **Convert Methodologies to Projects** (on page 5).
- ▶ Run the appropriate scripts to upgrade the database structure to P6 Professional 15.1. Oracle recommends that you use SQL Plus to run scripts referenced in the following instructions.
- ▶ To configure the Oracle database server for SSL, see the *Advanced Security Administrator's Guide* included with the Oracle Database Server Documentation for configuring the Oracle Server and Oracle Client(s) for SSL.

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Manual Database Upgrade Process

You can upgrade your existing P6 Professional 7.0, 8.1, 8.2, 8.3, or 8.4 database to the current release. You must upgrade your P6 Professional database so it will work with the new version. Use the scripts provided to upgrade your database.

All risk data fields are migrated when upgrading from a version earlier than P6 Professional 8.1; existing fields are mapped to new fields. See **Risks Migration** (on page 6) for more information.

Convert Methodologies to Projects

To migrate Methodology Management version 7.0 data to P6 Professional 15.1 projects, use Project Architect in the Project Management module (version 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 version 7.0 of the *Oracle Primavera P6 Project Management Reference Manual*.
- 3) After you have converted all your Methodology Management data to projects, upgrade P6 Professional.

Risks Migration

This topic applies only if you are upgrading from a version earlier than P6 Professional 8.2. The following table illustrates the risks data field mapping when upgrading from P6 Professional database (7.0 SP3) to P6 Professional 15.1.

Note: Some fields will migrate to text fields instead new fields because certain fields no longer correspond. The new text fields are noted below.

Risks Fields Migration Table

Name	P6 Professional database (v7.0 SP3) Risks Fields	P6 Professional R15.1 Risks Field
Risk ID	risk_id	risk_id
	risk_id	risk_code (PROJRISK appended with risk_id)
Risk Name	risk_name	risk_name
Risk Description	risk_descr	risk_desc
Risk Status	status_code	status_code Open= Open; Closed=Managed (closed)
Risk Category ID	risk_type_id	risk_type_id
Risk Control	risk_control	cause (with 'Risk Control' heading)
Risk UDFs	table_name	table_name
Applies to WBS	wbs_id	cause (with 'Applies to WBS' <WBS name> heading)
Applies to Resource	rsrc_id	rsrc_id
Responsible Manager	obs_id	cause (with 'Responsible Manager' <OBS name> heading)

Name	P6 Professional database (v7.0 SP3) Risks Fields	P6 Professional R15.1 Risks Field
Priority	priority_type	cause (with 'Priority' <priority_type> heading)
Project ID	proj_id	proj_id
Date Identified	add_date	add_date
Impact Date	impact_date	cause (with 'Impact Date' <add_date in mmm-dd-yyyy format > heading)
Probability	prbly_pct	cause (with 'Probability' <prbly_pct> heading)
Impact - Labor Units	impact_work_qty	cause (with 'Impact - Labor Units' <impact_work_qty> - 2 decimals heading)
Impact - Nonlabor Units	impact_equip_qty	cause (with 'Impact - Nonlabor Units' <impact_equip_qty> - 2 decimals heading)
Impact - Material Units	impact_mat_qty	cause (with 'Impact - Material Units' <impact_mat_qty> - 2 decimals heading)
Impact - Expenses	Impact_expense_cost	cause (with 'Impact - Expenses' <impact_expense_cost> - 2 decimals heading)
Risk Control	risk_control	cause (with 'Risk Control'<risk_control> heading)
Risk Category	risk_type	risk_type
Risk Category Sequence ID	seq_num	seq_num

Running the Oracle Database Upgrade Scripts for the P6 Professional Database

To update the database:

- 1) 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 or privuser, update the references with your actual admuser and privuser names.
 - ▶ **orppm_grant_privileges.sql**
If you are not using the schema names admuser, privuser, or bgjobuser, update the references with your actual admuser, privuser, and bgjobuser names.
 - ▶ **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.
- 2) If you are upgrading from R7.0, go to `\database\scripts\install\PPM_<release level>` and update the following scripts in a text editor:
 - ▶ **orppm_create_bguser_upgrade.sql**
If you changed the default tablespace name (PMDb_DAT1) or the default bgjobuser name, modify the tablespace or bgjobuser name in this script.
 - ▶ **orppm_grantpriv_bguser_upgrade.sql**
If you are not using the schema name bgjobuser, update the references with your actual bgjobuser name.
- 3) From the command line, execute `sqlplus sys/<password>@<DBNAME> as sysdba`.
where `<password>` is the password for your sysuser and `<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 the following scripts:
 - ▶ **manual_script_before_upgrade.sql**
 - ▶ **orppm_grant_privileges.sql**
 - ▶ **manual_script_before_install.sql**
- 5) If you are upgrading from R7.0, go to `\database\scripts\install\PPM_<release level>` and run the following scripts:
 - ▶ **orppm_create_bguser_upgrade.sql**
 - ▶ **orppm_grantpriv_bguser_upgrade.sql**

- 6) Log into the database as the admuser (or use your custom administrative user name if you created one).
- 7) Go to `\database\scripts\common` and run the `or_disable_triggers.sql` script.
- 8) Go to `\database\scripts\upgrade\PPM_<release_level>` and run one of the following scripts:
 - `ORPPM_p70sp1.sql`, if upgrading from P6 version 7.0 or 7.0 service pack 1
 - `ORPPM_p70sp3.sql`, if upgrading from P6 version 7.0 service pack 3
 - `ORPPM_p70sp5.sql`, if upgrading from P6 version 7.0 service pack 5
 - `ORPPM_p81.sql`, if upgrading from P6 version 8.1
 - `ORPPM_p81sp1.sql`, if upgrading from P6 version 8.1 service pack 1
 - `ORPPM_p82.sql`, if upgrading from P6 version 8.2
 - `ORPPM_p82sp1.sql`, if upgrading from P6 version 8.2 service pack 1
 - `ORPPM_p82sp3.sql`, if upgrading from P6 version 8.2 service pack 3
 - `ORPPM_p82sp5.sql`, if upgrading from P6 version 8.2 service pack 5
 - `ORPPM_p83.sql`, if upgrading from P6 version 8.3
 - `ORPPM_p83sp2.sql`, if upgrading from P6 version 8.3 service pack 2
 - `ORPPM_p83sp3.sql`, if upgrading from P6 version 8.3 service pack 3
 - `ORPPM_p83sp4.sql`, if upgrading from P6 version 8.3 service pack 4
 - `ORPPM_p84.sql`, if upgrading from P6 version 8.4
 - `ORPPM_p84sp1.sql`, if upgrading from P6 version 8.4 service pack 1
 - `ORPPM_p84sp3.sql`, if upgrading from P6 version 8.4 service pack 3
- 9) Go to `\database\scripts\source` and run the `orppm_admuser_upgrade.sql` script

Note: If you changed the default user names, you must update the privuser and pubuser names in this script with your custom user names.

- 10) Log into the database as a privuser.
- 11) Go to `\database\scripts\source\PPM_<release_level>` and run the `orppm_privuser.sql` script.

Caution: The `orppm_privuser.sql` script contains a table called PUBUSER, do not replace it if you have to change the pubuser user name.


Note: If you changed the default user names, you must update the admuser, privuser, and pubuser names in this script with your custom user names.

- 12) Go to `\database` and run `databaselogins.bat` (on Windows) or `databaselogins.sh` (on Unix) to upgrade the encryption of privilege user passwords. See *Private Database Logins for P6 Professional* (on page 11) for more information.
- 13) Log into the database as background job user.
- 14) Go to `\database\source\install\PPM_<release_level>` and run the `orppm_bguser.sql` script.

- 15) Log into the database as a system user.
- 16) Go to `\database\scripts\install\PPM_<release_level>` and run the `orppm_reset_priv.sql` script.

Private Database Logins for P6 Professional

Private database logins are used primarily by administrators to gain direct access to a database. For example, the privileged user login that you use to access the P6 Professional database is a private database login. You can add, modify, or delete existing logins using the Database Logins tool. This can also be accomplished using the Administration Configuration tool.

P6 Professional 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 to Use the New Encryption Algorithm*** (on page 11) for instructions. If you automatically configure your database, you do not need to configure the encryption algorithm.

User logins and passwords are not affected.

Resetting Private Database Passwords to Use the New Encryption Algorithm

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

- 1) Go to **P6 Professional R<release_level>\database** and run **databaselogins.bat** (databaselogins.sh for 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**. Undo will reverse any changes made during the current session.

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

For More Information

Where to Get Documentation

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


<http://www.oracle.com/technetwork/documentation/primaverappm-098696.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 Professional 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 lists the core documents available for the release, and identifies recommended readers by role. P6 Professional roles are described in the *P6 Professional Administrator's Guide*. Other, more technical documents are available on the media pack and OTN site, but are not listed below.

Title	Description
<i>What's New in P6 Professional</i>	Highlights the new and enhanced features included in this release. You can also use the <i>P6 Professional 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>P6 Professional Administrator's Guide</i>	 Explains how to set up the P6 Professional database, servers, and components; it also provides an overview of all the components in the P6 Professional solution. The guide describes the procedures required to administer P6 Professional, including setting up security and configuring global preferences. The P6 Professional network administrator/database administrator should read this guide.
<i>Tested Configurations</i>	Lists the configurations that have been tested and verified to

	work with P6 Professional. The network administrator/database administrator and P6 Professional administrator should read this document.
<i>P6 Professional Standalone Installation and Configuration Guide</i>	Explains how to install and configure P6 Professional as a standalone application. All administrators should read this guide.
<i>P6 Professional Help</i>	Explains how to use P6 Professional to plan, set up, and manage projects in a multiuser environment. If you are new to P6 Professional, use this Help to learn how to use the software effectively to plan and manage projects. The P6 Professional administrator, program manager, project manager, resource/cost manager, and team leader should read this Help.
<i>P6 Professional User's Guide</i>	Explains how to plan, set up, and manage projects in a multiuser environment. If you are new to P6 Professional, 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 Professional Help. The program manager, project manager, resource/cost manager, and team leader should read this guide.
<i>P6 Visualizer Help</i>	Describes how to create, modify, and manage Timescaled Logic Diagrams and Gantt charts. All users should read this Help.
<i>P6 Professional SDK Help</i>	Explains how to use the P6 Professional SDK to connect to the P6 Professional database. Describes the tables, fields, and stored procedures that you can access through the P6 Professional SDK. Provides examples that show how you can use the P6 Professional SDK to perform several basic tasks, such as creating a new project or assigning a resource to a project activity. To open the help file, double-click the p6_pro_sdk.chm file, which is available in <i>local drive</i> \Program Files\Oracle\Primavera P6 Professional\PM SDK\Doc\ by default. The P6 Professional network administrator/database administrator should read this documentation.
<i>P3 to P6 Professional Migration Guide</i>	This guide provides best practices for migrating your P3 data to P6 Professional, and details how P3 functionality maps to P6 Professional 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. Each team member can then view or print those portions that specifically relate to his or her role in the organization.

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

Where to Get Training

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

<http://education.oracle.com>

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, visit <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**.

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.

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