



PRIMAVERA

P6 Analytics Sample Data Guide

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Oracle Primavera P6 Analytics Sample Data Guide

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Preface

P6 Analytics is a separately packaged project portfolio analysis solution that enables businesses to gain visibility and deep insight into their project execution performance and enterprise resource allocation. By incorporating industry and business intelligence best practices, P6 Analytics fosters better decision making and control by turning insight into action. Use P6 Analytics to identify potential problems and course correct early in the lifecycle, analyze trends over time to respond faster to opportunities and threats, and uncover and replicate best practices. P6 Analytics includes a large catalog of prebuilt dashboards and key performance measures enabling customers to quickly gain strategic alignment over their projects, programs, portfolios and resources.

- ▶ Drill-down into multiple layers of data (ultimately into P6 EPPM) using interactive dashboards
- ▶ Use pivot table functionality to slice, dice and aggregate data in multiple ways
- ▶ Utilize Project, WBS, and Activity histories to identify trends over time
- ▶ Easily modify and create dashboards and reports using a visual UI
- ▶ Embed analytics in MS Office documents
- ▶ Combine analytics from other Oracle enterprise solutions
- ▶ Maintain same P6 EPPM security model

P6 Analytics is deployed as an Oracle Business Intelligence (OBI) application, installed separately, and utilizes the P6 Reporting Database as its data source. OBI (Standard Edition One or Enterprise Edition Plus) must be licensed separately; a restricted use license of P6 Reporting Database is included with P6 Analytics. As the P6 Reporting Database requires use of an Oracle back end database, P6 Analytics also requires an Oracle back-end database.

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Where to Get Documentation

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

http://download.oracle.com/docs/cd/E27225_01/index.htm

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

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

The following table describes the core documents available for Primavera Analytics and lists the recommended readers by role.

Title	Description
<i>What's New in Primavera Analytics</i>	Highlights the new and enhanced features included in this release. You can also use the <i>P6 EPPM Cumulative Feature Overview Tool</i> to identify the features that have been added since a specific release level. All users should read this guide.
<i>P6 Analytics Installation and Configuration Guide</i>	This guide is a step-by-step guide to installing and configuring P6 Analytics. This guide provides information about P6 Analytics administrative tasks. It also includes information for Star security configuration, OBI installation and configuration, Financial Periods installation and configuration, and for configuring the Secure Sockets layer.
<i>P6 Reporting Database Installation and Configuration Guide</i>	This document explains how to install and configure the P6 Reporting Database application, and generate the ODS and Star database. It describes how to install and configure the Oracle Gateway if the P6 Reporting Database is installed on a Microsoft SQL Server. It also provides information about how to run the Configuration Utility.
<i>P6 Reporting Database User's Guide</i>	Provides information about using ODS and Star with the P6 EPPM database to extract data that you can use to create reports.
<i>P6 Analytics User's Guide</i>	This guide explains how to use Star Schema Database (Star) to extract data for use in creating reports through the Oracle Business Intelligence Suite.

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>

Contacting Customer Support

If you have a question about using Oracle products that you or your network administrator cannot resolve with information in the documentation or help, click **<http://support.oracle.com/>**. This page provides the latest information on contacting Oracle Global Customer Support, knowledge articles, and the support renewals process.

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

- ▶ Use the **Primavera P6 Analytics** or **P6 Reporting Database** support line when you are having installation, configuration, connection, or application issues related to Primavera Analytics 2.0.

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.

Setting Up the Sample Database, Repository Definition (.rpd), and Dashboards

Included in the Primavera Analytics R2 package is a sample Star database, as well as sample OBI dashboards and analysis. These components must be setup and configured. This document explains the process for deploying Primavera Analytics R2 sample database, repository definition (.rpd) and dashboards.

Note: Oracle Business Intelligence 11.1.1.5.0 must be installed and configured prior to deploying the Primavera Analytics R2 repository definition file (.rpd) and Catalog. To install and configure Oracle Business Intelligence 11.1.1.5.0, please consult the following document:

http://docs.oracle.com/cd/E21764_01/bi.1111/e16452/toc.htm

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Restoring the Primavera Analytics Sample Database

To restore the Primavera Analytics sample database:

Note: Make sure that the PATH variable includes the path to your ORACLE_HOME/bin directory.

- 1) Open the Primavera Reporting Database media folder on your network and go to the sample\db folder and extract the **sample_expdp.zip** file to a local drive.
- 2) Create a new Oracle database instance for Primavera Analytics R2 Sample Data.
- 3) Log into the newly created sample data instance as a SYSTEM or other DBA privileged user.
- 4) Execute statements similar to the following, to create the necessary tablespaces:

```
create tablespace star_db
```

```
datafile 'path/star_dat1.dbf'
```

```
Size 32m
```

```
Autoextend on
```

```
Extent management local;
```

where *star_db* is the name you wish to use for the star database, and *path* is the path to the folder where you want the database to reside.

- 5) Execute statements similar to the following, to create the database users:

```
prompt Creating users username
```

```
--METADATA TYPE:USER CHANGE:CREATE NAME:username
```

```
create user username
```

```
identified by password
```

```
temporary tablespace temp_table
```

```
default tablespace star_db
```

```
;
```

```
--METADATA TYPE:GRANT CHANGE:CREATE PRIVILEGE:DBA GRANTEE:username
```

```
grant dba to username;
```

```
--METADATA TYPE:GRANT CHANGE:CREATE PRIVILEGE:JOB GRANTEE:username
```

```
grant create any job to username;
```

where *username* is the staruser or the name of the user you wish to create for the Star database, *password* is the password you wish to assign to that user, *temp_table* is the name of the tablespace for temporary data and *star_db* is the name of the database created in step 4.

Note: If you use a user name other than the staruser name, you need to map the user name you use to the Star database.

- 6) Execute the following SQL statement to create a directory object within the instance for the dump file:

```
create directory dmpdir as 'path_to_file';
```

where *path_to_file* is the path to the location of the data extracted from the **sample_expdp.zip** file.

- 7) Execute the following command to make sure case sensitivity for the Primavera Analytics sample database instance is set to false for database logons:

```
alter system set sec_case_sensitive_logon=false;
```

- 8) Log out of the database instance.

- 9) Import the sample.expdp file using oracle's datapump feature. To import, execute the following command in either a Windows command prompt or a Linux bash prompt:

```
impdp system/password@SAMPLE directory=dmpdir dumpfile=sample.expdp  
schemas=username logfile=sample.log
```

where *dmpdir* is the directory that you created in step 5 and *username* is the name of the user you created in step 5.

Copying the Primavera Analytics R2 Repository Definition File (.rpd) and Sample Catalog the OBI 11.1.1.5.0 Environment

To copy the Primavera Analytics R2 definition file:

- 1) Copy the **OraclePrimaveraAnalytics.rpd** file from *download\obi\rpd* folder to your repository folder on the server where OBIEE 11.1.1.5.0 is installed (*download* is the location where you downloaded the Primavera Analytics R2 install file).

Example:

```
$ORACLE_INSTANCE/instances/instance1/bifoundation/OracleBIServerComponent/coreapplication_obips1/repository
```

- 2) Copy the **PrimaveraAnalytics** folder from *download\obi\catalog* folder to your catalog folder on the server where OBIEE 11.1.1.5.0 is installed (*download* is the location where you downloaded the Primavera Analytics R2 install file).

Example:

```
$ORACLE_INSTANCE/instances/instance1/bifoundation/OracleBIPresentationServicesComponent/coreapplication_obips1/catalog
```

Configuring OBI 11.1.1.5.0 to Connect to the Star Schema

To configure OBI to connect to the Star Schema, you need to follow the steps in the following sections:

- 1) **Verifying a TNSNAMES File Exists** (on page 13)
- 2) **Verifying the StarDW Alias** (on page 14)
- 3) **Resolving Multiple Oracle Homes to Work with OBI** (on page 14)

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Verifying a TNSNAMES File Exists

You will need a TNSNAMES file for the Star Schema to function properly:

- 1) Browse to <OBIEE_Home>\network\admin (the default OBIEE_Home is \Oracle\Middleware\Oracle_BI1).
- 2) Locate the TNSNAMES.ora file.
If it exists, you can continue to the next section.
If it does not exist, you will need to create it.

- 3) To create a TNSNAMES file:
 - a. Copy it from any existing Oracle Home.
 - b. Place it in the <OBIEE_Home>\network\admin location mentioned above.
 - c. Edit the file you copied with a text editor.
 - d. Add the following reference to the TNSNAMES.ora file:

```
STARDW =
  (DESCRIPTION =
    (ADDRESS = (PROTOCOL = TCP) (HOST = <hostname>) (PORT =
<portnumber>))
    (CONNECT_DATA =
      (SERVER = DEDICATED)
      (SERVICE_NAME = <ServiceName>))
  )
```

where *hostname* is the IP address or name where the Star database is installed, *portnumber* is the port number where the Star database is installed, and *ServiceName* is the service name you used when you installed the Star database.

Verifying the StarDW Alias

If you are not using an alias of STARDW, you can update the alias that exists for the Star database:

- 1) Open the **OraclePrimaveraP6Analytics.rpd** file in the BI Administration Tool.

Note: The default password for the Oracle Primavera repository is **Admin123**.

- 2) Select **Manage, Variables**.
- 3) Double-click the **DW_DSN** variable.
- 4) In the **Default Initializer** field, modify the 'STARDW' value with the correct alias for the Star instance.
- 5) Select **OK** and close the **Variable Manager**.
- 6) Select **File, Save** to save the changes.
- 7) Select **File, Exit** to close out of the BI Administrator.

Resolving Multiple Oracle Homes to Work with OBI

If you have multiple Oracle homes on the OBI server:

- 1) Browse to:
%ORACLE_INSTANCE%\bifoundation\OracleBIApplication\%ORACLE_BI_APPLICATION%\setup\

- 2) Open the **bi-init.cmd** file.
- 3) Check for the following reference:

```
call
%ORACLE_INSTANCE%\bifoundation\OracleBIApplication\%ORACLE_BI_APPLICATION%\setup\user.cmd
```

 - ▶ If the reference exists:
 - a. Close the **bi-init.cmd** file
 - b. Open the **user.cmd** file referenced under the path above.
 - c. In the **user.cmd** file, add the following reference:

```
set TNS_ADMIN=<OBIEE_Home>\network\admin
```

where <OBIEE_Home> is the location of OBIEE Home (the default is **\Oracle\Middleware\Oracle_BI1**)
 - ▶ If the reference does not exist, add the following reference in the **bi-init.cmd** file:

```
set TNS_ADMIN=<OBIEE_Home>\network\admin
```

where <OBIEE_Home> is the location of OBIEE Home (the default is **\Oracle\Middleware\Oracle_BI1**)
- 4) Restart the OBIEE processes for the changes to take effect.

Configuring OBI 11.1.1.5.0 to Use the Primavera Analytics R2 Repository Definition (.rpd) and Catalog

To configure OBI 11.1.1.5.0 to use the Primavera Analytics R2 repository definition and catalog:

- 1) Open a web browser, and launch Oracle Enterprise Manager for your installation of OBI 11.1.1.5.0.
- 2) Open the following URL:

```
http://ipaddress:port/em
```

where *ipaddress* is the IP address of your installation and *port* is the port number of your installation of OBI 11.1.1.5.0.
- 3) Log into Oracle Enterprise Manager.
- 4) Expand the **Business Intelligence** folder by clicking **+**.
- 5) Double click on the name for your deployment.
- 6) Click **Lock and Edit Configuration**.
- 7) In the **Deployments** tab, select the **Repository** sub tab.
- 8) In the **Upload BI Server Repository** section, click **Browse** next to your repository in the list.
- 9) In the **Select File** box, navigate to the location of the .rpd file.
- 10) Enter the password into the **Repository password** and **Confirm password** fields.

Note: The default password for the Oracle Primavera repository is **Admin123**.

- 11) In the **BI Presentation Catalog** section, enter the Catalog Location for the Primavera Analytics catalog.
- 12) Click **Apply**.
- 13) Click **Activate Changes**.
- 14) Click **Restart** to apply the changes.
- 15) In the **Overview** page, under the **Manage System** section, click **Restart**.
- 16) Log out of Oracle Enterprise Manager.

Adding OBI 11.1.1.5.0 Users for Primavera Analytics R2 Sample Data

To add OBI 11.1.1.5.0 users for Primavera Analytics R2 sample data:

- 1) Open a web browser, and launch Oracle Enterprise Manager for your installation of OBI 11.1.1.5.0.
- 2) Open the following URL: `http://ipaddress:port/console` where *ipaddress* is the IP address of your installation and *port* is the port number of your installation of OBI 11.1.1.5.0
- 3) Log into Oracle Enterprise Administration Console.
- 4) In the **Domain Structure** section, click **Security Realm**.
- 5) Click on the realm name in the table.
- 6) Click the **Users and Groups** tab, and select the **Users** sub tab.
- 7) Click **New**.
- 8) In the **Create a New User** form, fill in the required fields for Name, Password, and Confirm Password. Click **OK**.

Note: Oracle recommends creating a user called admin for the Primavera Analytics sample data.

- 9) Click on the user.
- 10) In the **Group** tab move the **BIAdministrators**, **BIAuthors**, and **BIConsumers** groups from the Available side to the Chosen side. Click **Save**.
- 11) Log out of the Oracle Weblogic Administration Console.