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PRIMAVERA

**P6 Analytics Installation and Configuration Guide  
Release 2.0**

July 2012

# Copyright

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Oracle Primavera P6 Analytics Installation and Configuration Guide

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# Contents

---

Copyright.....	2
Preface.....	7
Where to Get Documentation.....	7
Where To Get Training .....	8
Contacting Customer Support .....	8
Before You Begin .....	11
About P6 Analytics.....	11
Prerequisites.....	12
Star Security Configuration.....	13
Adding a New Star User for P6 Analytics .....	13
Setting Up Star Security.....	14
Including Inactive Resources in the Star Tables .....	15
Installing and Configuring OBI .....	17
Overview of Installing and Configuring OBI.....	17
Installing OBI.....	18
Configuring OBI 11.1.1.5.0 to Connect to the Star Schema .....	18
Verifying a TNSNAMES File Exists .....	18
Verifying the StarDW Alias .....	19
Resolving Multiple Oracle Homes to Work with OBI .....	19
Copying the Primavera Analytics R2 Repository Definition File (.rpd) and Sample Catalog the OBI 11.1.1.5.0 Environment .....	20
Updating the OraclePrimaveraAnalytics.rpd with the Correct Staruser Name and Password ...	20
Updating the OraclePrimaveraAnalytics.rpd for P6.....	21
Configuring OBI 11.1.1.5.0 to Use the Primavera Analytics R2 Repository Definition (.rpd) and Catalog.....	22
Installing and Configuring Financial Periods .....	23
Installing Financial Periods.....	23
Configuring the OBI RPD File for Financial Periods.....	23
Integrating Primavera Analytics R2 Data with NAVTEQ Map Data to Create Spatial Dashboards .	25
Preparing P6 EPPM and the Star Database .....	25
OBIEE 11g Sample Spatial Data Setup Steps.....	25
Configure Background Maps .....	27
Adding Maps to Analysis .....	27



# Preface

---

## In This Section

---

Where to Get Documentation.....	7
Where To Get Training.....	8
Contacting Customer Support .....	8

## 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](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</i>	This document explains how to install and configure the

Title	Description
<i>Installation and Configuration Guide</i>	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.
P6 Reporting Database User's Guide	Provides information about using ODS and Star with the P6 EPPM database to extract data that you can use to create reports.
P6 Analytics User's Guide	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.



# Before You Begin

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This section provides an overview of P6 Reporting Database and P6 Analytics.

- ▶ P6 Analytics provides customers with an in-depth and comprehensive method for analyzing and evaluating their project performance, project history, and resource assignments and utilization.
- ▶ P6 Reporting Database works with the P6 EPPM database to provide a robust and powerful reporting solution.

## In This Section

---

About P6 Analytics.....	11
Prerequisites .....	12

**About P6 Analytics**

P6 Analytics provides an in-depth and comprehensive method for analyzing and evaluating project performance, project history, resource assignments and utilization.

Built upon the Oracle Business Intelligence suite, it delivers a catalog of requests that provide an interactive way of viewing, analyzing, and evaluating P6 EPPM data. In addition, it provides a Repository (RPD) file that contains the data mappings between the physical data and the presentation layer of OBI.

The dashboards provide detailed insight into your P6 EPPM data through the use of analytical charts, tables, and graphics. Dashboards have the ability to navigate to other requests to provide precise root cause analysis. In addition, you can configure individual requests with the P6 EPPM Action Link, enabling you to navigate directly to your P6 site for true "Insight to Action" capabilities ("Insight to Action" capabilities are only available when you purchase OBIEE). Reports created with Oracle BI Answers can be saved in the Oracle BI Presentation Catalog, and can be integrated into any Oracle BI home page or dashboard. Results can be enhanced through options such as charting, result layout, calculation, and drill-down features.

Use P6 Analytics to:

- ▶ Perform root-cause analysis and employ management-by-exception.
- ▶ Gather critical insights into current and historical performance of all projects, programs, and portfolios.
- ▶ Make better decisions to eliminate project failure.
- ▶ Quickly visualize critical project performance in early stages from dashboards.
- ▶ Predict and identify cost trends early in project lifecycle to rescue troubled projects.

- ▶ Gain visibility into resource performance through s-curves in dashboards with interactive dashboards you can drill down to examine the root-cause problem.
- ▶ Show staffing needs by portfolio with early warning indicators for upcoming under-staffed project work.

### Performance Data

P6 Analytics provides an RPD file to be used with the Oracle Business Intelligence suite. The RPD file contains:

- ▶ A physical representation of the Star schema.
- ▶ A business layer where customized calculations are performed.
- ▶ A presentation layer that groups all of the calculated business layer fields into logical subject areas.

The RPD delivers an extensive amount of Earned Value, Costs, Units, Percent Completes, and other key performance indicators. It enables data to be sliced by items such as time, project, eps, portfolios, activities, and resources.

P6 Analytics delivers a sample dataset, consisting of Star data, from which the Dashboards and Analyses requests in the catalog were built. This sample data can be used to view the power of Dashboard and Answers requests delivered in the catalog, which will give the user an idea of how the catalog can be integrated with their data. For information on configuring the sample dataset, see the P6 Analytics Sample Data Guide document that is included in the P6Analytics\Sample folder on your release media or download.

### The Star Database

The STAR schema allows organizations to store data for History Levels (Project, WBS, or Activity) for a specific History Interval (Year, Quarter, Financial Period, Month, or Week). This data allows for tracking trends and for advanced business intelligence.

## Prerequisites

P6 EPPM must already be installed, and a P6 EPPM database already created. The P6 EPPM Extended Schema Publication Services must be run to populate the P6 EPPM Extended Schema data before setting up P6 Reporting Database.

The Star database portion of P6 Reporting Database must already be installed and configured. For detailed installation and configuration information, see the *P6 Reporting Database Installation and Configuration Guide*.

# Star Security Configuration

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This section describes the Star security configuration. These include adding a new Star user, setting up security, and filtering out inactive resources.

## In This Section

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Adding a New Star User for P6 Analytics ..... 13

Setting Up Star Security ..... 14

Including Inactive Resources in the Star Tables..... 15

Adding a New Star User for P6 Analytics

To add a new Star user:

- 1) In P6, do the following:
  - a. Add a new user and give the user access to the **P6 Analytics** module. Be sure to grant the user the necessary Operational Breakdown Structure (OBS), cost, module, and resource access.
  - b. Click the **Administer** ▾ menu and select **Global Scheduled Services**.
  - c. Run the **Publish Security** service.

**Note:** You can schedule this service to run immediately or later, but it must finish running before you run the staretl file.

- d. Run staretl.bat (or staretl.sh on a non-Windows system).
- 2) If you are going to use LDAP, skip this step.

**Note:** If OBI and P6 EPPM are both configured to use LDAP authentication, users do not need to be created manually. Only the LDAP server needs to be added to OraclePrimaveraAnalytics.rpd by accessing Manage, Security. See the OBI documentation information about configuring LDAP for OBI.

If you are not going to use LDAP, do the following in Oracle Business Intelligence (OBI):

- a. Log into the WebLogic console on the OBIEE domain with your WebLogic username and password.
- b. Under **Domain Structure** pane, click **Security Realms**.
- c. In the **Summary of Security Realms** page, click **myrealm**.

- d. In the **Settings for myrealm** page, click the **Users and Groups** tab.
- e. In the **Users** tab, click **New** to add the new user.
- f. In the **Create a New User** page:
  1. Enter the **Name** and **Password** for the new user.

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**Note:** The user needs to match the user in P6. You can verify the case from P6 by running this query: `select user_name from USERS;`

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2. Click **OK**.
- g. In the **Setting for myrealm** page, click the user's name.
- h. In the **Settings for <user name>** page:
  1. Click the **Groups** tab.
  2. In the **Parent Groups Available** column, select group(s) and move them to the **Chosen** column.

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**Note:** You can find the default Oracle Business Intelligence Application Roles here:  
[http://docs.oracle.com/cd/E14571\\_01/bi.1111/e10543/install.htm#CIHJBBGH](http://docs.oracle.com/cd/E14571_01/bi.1111/e10543/install.htm#CIHJBBGH)

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3. Click **Save**.
- i. Repeat these steps if you need more users.

## Setting Up Star Security

For users to have access to the Star database, they must have module access rights configured in the P6 EPPM database. OBI Users must already be configured in OBI.

The following table describes the Star security:

Type	Description
OBS Access	Users who have OBS access in the P6 EPPM module will have OBS access in OBI.
Edit EPS Costs/Financials	Users who have access to projects in the P6 EPPM database, and who have this privilege set, will have the same privilege in the Star database.

## Resource Access

Resource access can be set to one of the following:

- ▶ **All resource access** - The user will have unrestricted access to resources.
  - ▶ **None** - The user cannot access any resources.
  - ▶ **Specific resource access** - The user can only access a specific resource.
- 

## Including Inactive Resources in the Star Tables

By default, inactive resources are filtered out of the Star tables. If inactive resources were included, they would also be included in the spread data and in other dimension tables. It might not be necessary to process this extra resource assignment information.

If you do want to include inactive resources in the Star tables, update the following setting in the **staretl.properties** file, and set the **=false** parameter to **=true** in the following statement:

- ▶ `star.utilization.include.inactive.rsrc=false`





# Installing and Configuring OBI

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This section describes how to install and configure Oracle Business Intelligence (OBI). It also describes where to put the P6 Analytics files to use with OBI.

## In This Section

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Overview of Installing and Configuring OBI .....	17
Installing OBI.....	18
Configuring OBI 11.1.1.5.0 to Connect to the Star Schema .....	18
Copying the Primavera Analytics R2 Repository Definition File (.rpd) and Sample Catalog the OBI 11.1.1.5.0 Environment.....	20
Updating the OraclePrimaveraAnalytics.rpd with the Correct Staruser Name and Password .....	20
Updating the OraclePrimaveraAnalytics.rpd for P6 .....	21
Configuring OBI 11.1.1.5.0 to Use the Primavera Analytics R2 Repository Definition (.rpd) and Catalog .....	22

## Overview of Installing and Configuring OBI

Oracle Business Intelligence (OBI) is a comprehensive suite of Business Intelligence foundation and applications designed to enable the insight-driven enterprise. It integrates data from multiple enterprise sources, and transforms it into key insights that enable strategic decision-making, drive continual business process improvements, and promote alignment across the enterprise.

The Oracle Business Intelligence infrastructure consists of servers, programs, and tools used to build Oracle Business Intelligence applications. The Oracle Business Intelligence product includes an installer program that can install the complete OBI suite, or one or more OBI product components.

Once OBI is installed, apply and configure P6 Analytics to your OBI deployment. P6 Analytics provides the following default dashboards:

- ▶ Main
- ▶ Mobile
- ▶ Portfolio Analysis
- ▶ Project Earned Value
- ▶ Project Health
- ▶ Resource

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**Note:** Any customization done to the existing RPD or Catalog must be reapplied after the installation. It may be necessary to merge the RPD and Catalog with the new RPD and Catalog delivered with this version of P6 Analytics.

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For information about the Business Intelligence & Data Warehousing Technology Center, go to the following web site:

**<http://www.oracle.com/technology/tech/bi/index.html>**

For information about the Business Intelligence & Data Warehousing documentation, go to the following web site:

**[http://www.oracle.com/technology/documentation/bi\\_ee.html](http://www.oracle.com/technology/documentation/bi_ee.html)**

For information about configuring an Impersonator User to be used with Single Sign-On for OBI, go to the following web site:

**[http://download.oracle.com/docs/cd/E12096\\_01/books/AnyDeploy/AnyDeploySSO5.html](http://download.oracle.com/docs/cd/E12096_01/books/AnyDeploy/AnyDeploySSO5.html)**

## Installing OBI

For information on installing the Oracle Business Intelligence, go to the following web site:

**<http://www.oracle.com/technology/products/xml-publisher/index.html>**

## 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 18)
- 2) **Verifying the StarDW Alias** (on page 19)
- 3) **Resolving Multiple Oracle Homes to Work with OBI** (on page 19)

### Related Topics

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Verifying a TNSNAMES File Exists .....	18
Verifying the StarDW Alias.....	19
Resolving Multiple Oracle Homes to Work with OBI .....	19

## 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.

### 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
```

### Updating the OraclePrimaveraAnalytics.rpd with the Correct Staruser Name and Password

If you are not using the default staruser name and password, you must change them in the **OraclePrimaveraP6Analytics.rpd** file:

- 1) Change the username:
  - a. Open the **OraclePrimaveraP6Analytics.rpd** file in the BI Administration Tool.
 

**Note:** The default password for the Oracle Primavera repository is **Admin123**.
  - b. Select **Manage, Variables**.
  - c. Double-click the **DW\_USERNAME** variable.
  - d. In the **Default Initializer** field, modify the value 'STARUSER' with the correct staruser name in your environment.
  - e. Select **OK** and close the **Variable Manager**.
- 2) Change the password:
  - a. Right-click the Physical connection source (the default is **Oracle Primavera P6 Data Warehouse**) and select **Properties**.
  - b. Select the **Connection Pools** tab.
  - c. Double-click the **Oracle Primavera P6 Data Warehouse Connection Pool**.
  - d. On the **General** tab, change the password to the staruser password in your environment.
  - e. Click **OK** and re-enter the password to confirm the change.
  - f. Select **OK** to close the properties screen.
  - g. Select **File, Save** to save the changes.
- 3) Select **File, Exit** to close out of the BI Administrator.

### Updating the OraclePrimaveraAnalytics.rpd for P6

If you are using P6 and want to launch it from P6 Analytics, you must update the OraclePrimaveraAnalytics.rpd file with the correct URL and context root for P6 Analytics:

- 1) Open **OraclePrimaveraAnalytics.rpd** with the BI Administrator Tool.
 

**Note:** The default password for the OraclePrimaveraAnalytics.rpd is **Admin123**.
- 2) Access **Manage, Variables**.
- 3) Under the **Repository Node**, select **Variables**.
- 4) Locate the variable **DW\_P6\_LINK\_BASE\_URL**, double-click that variable, and proceed with the checkout.
- 5) When the edit dialog opens, modify the Default\_Initializer with the correct P6 URL. For example:  
 http://P6hostname:port/p6/login  
 where *P6hostname* is the name of the host where P6 is installed and *port* is the port number for P6 (this could be 7001 or 8203 depending on how you configured and deployed P6).

## 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.

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

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- 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.

# Installing and Configuring Financial Periods

This section describes how to install and configure multiple Financial Periods.

## In This Section

Installing Financial Periods .....	23
Configuring the OBI RPD File for Financial Periods .....	23

### Installing Financial Periods

P6 Reporting Database can use two additional financial periods. Use the following procedure to add the additional Financial Periods to your P6 Reporting Database:

**Note:** You must have previously run the staretl.bat (or staretl.sh in a non-Windows environment) process.

- 1) Connect to your Star database instance with the STARUSER account.
- 2) Run a query to set the values for fin\_period\_2 and fin\_period\_3. For example:  

```
update w_day_d set fin_period_2 = CHR(64 + cal_month) || '-' || cal_year;  
update w_day_d set fin_period_3 = CHR(64 + cal_month) || '-' || cal_year;
```

The preceding queries should each appear on one line. Format restrictions of this document might prevent them from doing so.
- 3) Commit the changes made in step 3.
- 4) Run the staretl.bat (or staretl.sh in a non-Windows environment) process.

### Configuring the OBI RPD File for Financial Periods

Once you complete the above steps, you will need to configure your OBI RPD file to include the newly added Financial Periods. Use the following procedure to configure your OBI RPD file:

- 1) Open **OraclePrimaveraAnalytics.rpd** in the Oracle BI Administration Tool.

**Note:** The default password for the OraclePrimaveraAnalytics.rpd is **Admin123**.

- 2) In the far right section (Physical), navigate to the **W\_DAY\_D** table.
- 3) Highlight the **FIN\_PERIOD\_2** and **FIN\_PERIOD\_3** fields, drag them into the middle section (Business Model and Mapping), and release them in the **Dim – Date** dimension.

- 4) After FIN\_PERIOD\_2 and FIN\_PERIOD\_3 appear in the Business Model and Mapping section under the Dim – Date dimension, you can drag them to the left section (Presentation) where you want them to appear in OBI. You can also rename them there, so they display as you require.
- 5) Save the **OraclePrimaveraAnalytics.rpd** file.



# Integrating Primavera Analytics R2 Data with NAVTEQ Map Data to Create Spatial Dashboards

NAVTEQ is a map data provider that provides a sample set of map data that can be configured with Map Viewer, a component that is integrated with OBIEE 11g.

P6 EPPM v8.2 can store location related information for projects, activities and resources. Primavera Analytics R2 has the ability to create intelligent dashboards to evaluate measures using the geographical location data entered in P6 EPPM.

**Note:** It is important that the location attributes entered in P6 EPPM match the attributes in the NAVTEQ data so that map layers can be rendered correctly. For example, if your map is configured to use the OBIEE\_WORK tile, you should query the OBIEE\_NAVTEQ db user schema and use the exact code that resides in the schema.

## In This Section

Preparing P6 EPPM and the Star Database .....	25
OBIEE 11g Sample Spatial Data Setup Steps .....	25
Configure Background Maps .....	27
Adding Maps to Analysis .....	27

## Preparing P6 EPPM and the Star Database

Location data can be entered in P6 EPPM by clicking the Administer menu and selecting Enterprise Data, then expanding Global and clicking Locations. The locations data can then be assigned to projects, activities, and resources. Please consult P6 help for more detailed information for entering and assigning Location data.

To prepare P6 EPPM and STAR database:

- 1) Assign locations to your projects, activities and resources.
- 2) Run all publication services.
- 3) Run the StarETL process.

## OBIEE 11g Sample Spatial Data Setup Steps

This section provides details regarding the setup and configuration of the Sample App Mapviewer Content and how to integrate it with Primavera Analytics R2. The steps required to install and configure this component can be found at the following link:

<http://www.oracle.com/technetwork/middleware/bi-foundation/obiee-samples-167534.html>

Under the section: OBIEE 11.1.1.3 - Sample Application (Build 825).

Download the NAVTEQ Data Bundle for OBIEE, Documentation Downloads and Sample Application - Setup Files in this section.

Once these files are downloaded and extracted, consult Chapter 6: Deploying SampleApp Mapviewer Content of the SampleApp\_Deploy\_Instructions\_825.pdf file for full instructions for installing and configuring the NAVTEQ sample data bundle.

The following provides a step by step example of joining the Project State and Country Code data from the Primavera – Activity subject area to the sample NAVTEQ data:

To import layers:

- 1) Log into Oracle Business Intelligence 11.1.1 analytics with an account that has BI Administrators role.
- 2) Click **Administration**.
- 3) In the **Administration** screen, click **Manage Map Data**.
- 4) In the **Manage Map Data** screen, select the **Layers** tab.
- 5) Click the **Import Layers** icon.
- 6) In the Import Layers dialog box:
  - ▶ Select **OBIEE\_NAVTEQ\_Sample** in the Look field.
  - ▶ Select both **OBIEE\_STATE** and **OBIEE\_COUNTRY** in the list of values.
  - ▶ Click **OK**.
- 7) Highlight the newly added layers OBIEE\_STATE and click the **Edit layers** icon.
- 8) In the **Edit Layers** dialog box:
  - ▶ In the BI Key Columns section, click the **+** icon.
  - ▶ Select the **Primavera – Activity** subject area.
- 9) In the Select BI Key Columns dialog:
  - ▶ In the **Project** section, select **Location**.
  - ▶ Click the **State/Province** element.
  - ▶ Click **Move** to move this element to the selected table.
  - ▶ Click **OK**.
- 10) Highlight layers OBIEE\_COUNTRY and click the **Edit layers** icon.
- 11) In the **Edit Layers** dialog box:
  - ▶ In the BI Key Columns section, click the **+** icon.
  - ▶ Select the **Primavera – Activity** subject area.
- 12) In the Select BI Key Columns dialog:
  - ▶ In the **Project** section, select **Location**.
  - ▶ Click the **Country Code** element.

- ▶ Click **Move** to move this element to the selected table.
- ▶ Click **OK**.

## Configure Background Maps

After importing the necessary map layers, the background maps have to be associated with map layers created in the previous section.

To configure Background Maps:

- 1) Log into Oracle Business Intelligence 11.1.1.5.0 analytics with an account that has BI Administrators role.
- 2) Click **Administration**.
- 3) In the **Administration** screen, click **Manage Map Data**.
- 4) In the **Manage Map Data** screen, select the **Background Maps** tab.
- 5) In the **Background Map** table, select one of the named background maps in the table and click the **Edit Background Map** icon.
- 6) In the **Interactive BI Layers** section, click **+** to add a layer and its associated zoom level.
- 7) In the **Add Layers** dialog box.
  - ▶ Select both the **OBIEE\_COUNTRY** and **OBIEE\_STATE** options.
  - ▶ Click **OK**.
- 8) Adjust the **Zoom** for each map layer according to your requirements.
- 9) Click **OK**.

## Adding Maps to Analysis

To create and configure a new analysis:

- 1) Create a new Analysis with the Primavera – Activity subject area.
- 2) Select **Project Name**, **Country Code**, **State/Province**, and **Actual Total Cost**.
- 3) Click the **Results** tab.
- 4) In the **Results** tab, click the **Add New View** icon.
- 5) In the new view, select **Map**.
- 6) In the **Map** view, click **Edit**.
- 7) In the **Edit Map View** screen:
  - ▶ In the Map View field select **OBIEE\_WORLD\_MAP**.
  - ▶ If you wish, modify and add new map formats to include different color schemes, pie charts, and value binding.