PRIMAVERA

# P6 EPPM and P6 Analytics System Architecture Data Sheet R3.2

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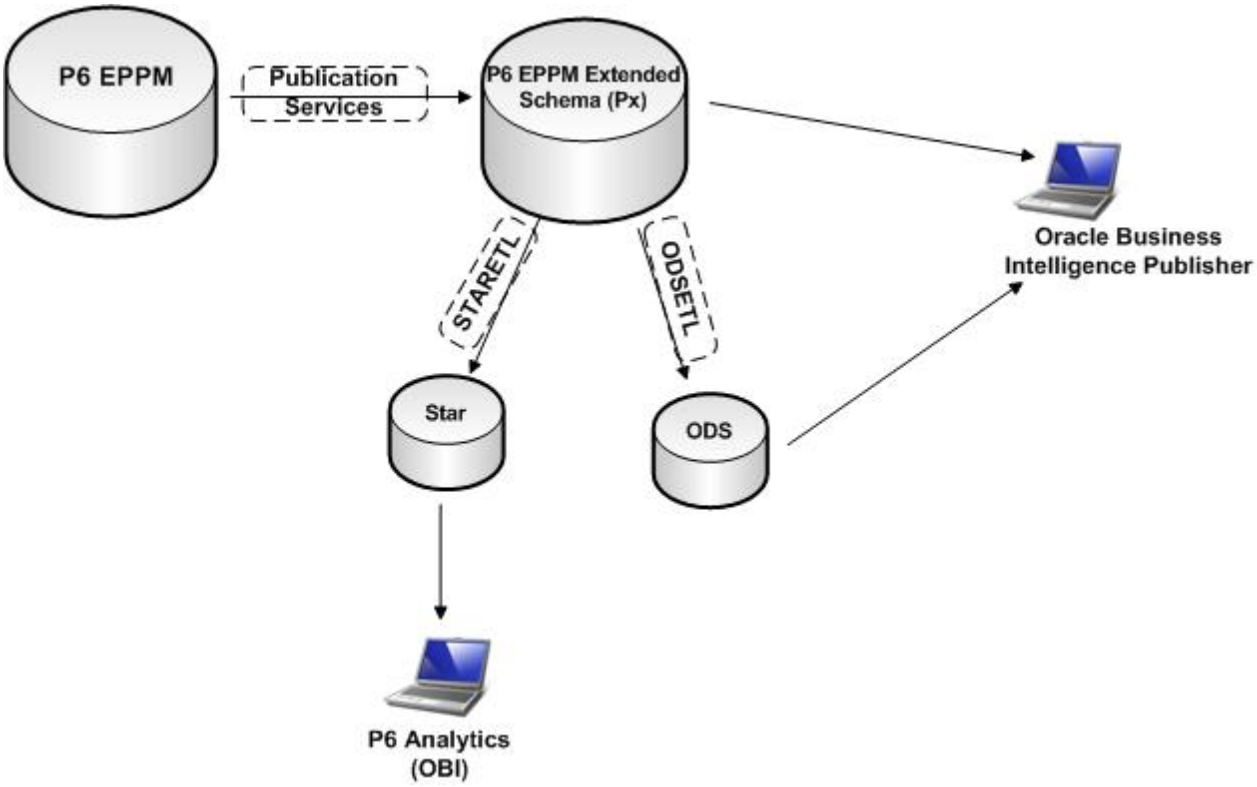
# Working with Oracle Primavera P6 EPPM, P6 Analytics, and P6 Reporting Database

Depending on your organization's specific deployment, P6 EPPM, P6 Reporting Database, and P6 Analytics work together as depicted below.




### Applications:

**P6 EPPM:** P6 EPPM is the primary interface for administering and managing projects. This is where you will gather the data on which P6 Analytics will report. P6 EPPM provides an extensive array of features designed to optimize all phases of Project Management, Resource Management, and Portfolio Management. It includes full support for activities, work breakdown structures, planning and scheduling, costs, resource administration and assignment, codes, user defined fields, roles, teams, and capacity planning.

**Oracle Business Intelligence (OBI):** OBI 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. OBI can also generate proactive alerts based on integrated reports data mined from P6 Reporting Database.

**Oracle BI Publisher:** Oracle Business Intelligence Publisher is an enterprise reporting solution allowing you to design, manage, and deliver highly formatted documents. Because it is built on open standards, your IT developers can create data models against practically any data source and use BI Publisher APIs to build custom applications leveraging existing data sources and infrastructure. BI Publisher users can design report layouts using familiar desktop tools, reducing the time and cost needed to develop and maintain reports. Extremely efficient and highly scalable, BI Publisher can generate documents with minimal impact to transactional systems.

**P6 Analytics:** This integrated dynamic reporting tool, uses the data gathered in P6 and the OBI metadata layer, to facilitate the creation of ad hoc reports and interactive custom dashboards reflecting trends and metrics for activities, portfolios, resource assignments, utilization, and project history.

### Technology:

**The P6 EPPM Database:** The main database for P6 EPPM data. The EPPM database includes the P6 Extended Schema (Px) optimized for reporting.

**The Reporting Database:** The P6 Reporting Database consists of the Star database and the Operational Data Store (ODS) database. Each of these pulls data from the P6 EPPM Extended Schema, which can then be used to create reports. The Star database accumulates project data over time, providing baselines for tracking trends and for advanced business intelligence; it also provides key metrics on current data, which allows you to drill through root cause analysis. Users can view the data by using OBI. The ODS database gives users the option to access denormalized, relational views of P6 EPPM data by using tools such as Oracle Business Intelligence Publisher.

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## 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 (OBI) suite, it delivers a catalog of analyses that provide an interactive way of viewing, analyzing, and evaluating P6 EPPM data. In addition, it provides a Repository Definition (.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 analytical charts, tables, maps, and graphics. Dashboards allow you to navigate to other analyses to provide precise root-cause analysis. OBI allows you to configure individual analyses with the P6 EPPM Action Link, enabling you to navigate directly to your P6 site for true "Insight to Action" capabilities. You can save analyses created with OBI Answers in the OBI Presentation Catalog and integrate the analyses into any OBI home page or dashboard. You can enhance results 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.
- Predict and identify cost trends early in the project life cycle to rescue troubled projects.
- Gain visibility into resource performance through s-curves. With interactive dashboards, you can drill down to examine the root-cause of a problem.
- Show staffing needs by portfolio with early warning indicators for upcoming under-staffed project work.
- Use geospatial visualization to view project, activity, and resource data metrics by geographic location with full drill-down capabilities.

### Performance Data

P6 Analytics provides an .rpd file to use with the OBI suite. The .rpd file contains:

- A physical representation of the Star schema.
- A business layer to perform customized calculations.
- A presentation layer that groups all 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 dimensions such as time, EPSs, portfolios, projects, activities, and resources.

P6 Analytics delivers a sample dataset, consisting of Star data, where the dashboards and analyses in the catalog were built. You can use this sample data to view the power of dashboard and analyses delivered in the catalog, and see how you can integrate the catalog with your data.

## About Oracle Primavera P6 Enterprise Project Portfolio Management

Oracle Primavera P6 Enterprise Project Portfolio Management (P6 EPPM) is a robust and easy-to-use integrated solution for globally prioritizing, planning, managing, and executing projects, programs, and portfolios. It optimizes role-specific functionality to satisfy each team member's needs, responsibilities, and skills. It provides a single solution for managing projects of any size, adapts to various levels of complexity within a project, and intelligently scales to meet the needs of various roles, functions, or skill levels in your organization and on your project team.

Thousands of companies rely on P6 EPPM to:

- Plan, schedule, and manage the right strategic mix of projects
- Make informed project, cost, and resource management decisions
- Enhance team collaboration and workflow productivity
- Maximize each project contributor's skills and responsibilities
- Track progress and optimize capacity for maximum profitability
- Deliver programs and projects on time and within budget

- Share data with human capital, financial management, and enterprise resource planning systems

## About P6 Reporting Database

P6 Reporting Database works with the P6 EPPM database to provide a robust and powerful reporting solution. P6 Reporting Database consists of the Star and ODS databases.

### The Star Database

The Star database enables an organization to perform advanced business analysis on project and portfolio data. It supplies a dimensional schema that organizes P6 EPPM hierarchical relationships. The Star schema allows organizations to store data for History Levels (Project, WBS, Activity, or Assignment) for a specific History Interval (Year, Quarter, Financial Period, Month, Week, or Day). This data allows for tracking trends for advanced business intelligence. The Star database captures data for activities, resource assignments and utilization, and user defined fields. P6 Analytics requires the Star database.

### The Operational Data Store (ODS)

The ODS portion of P6 Reporting Database is an optional relational database that supplies day-to-day, easy to understand operational views of the P6 EPPM database data. You can also use the P6 Extended Schema to provide this information.

# For More Information

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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 P6 Analytics, go to:

http://download.oracle.com/docs/cd/E49048_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 P6 Analytics Documentation Center, located in the \Documentation\Documentation_library*language* folder of the P6 Analytics physical media or download.

The following table describes the core documents available for P6 Analytics and lists the recommended readers by role.

| Title | Description |
|---|---|
| *What's New in P6 Analytics* | This guide highlights the new and enhanced features included in this release.<br>You can also use the *Cumulative Feature Overview Tool* to identify the features that have been added since a specific release level.<br>All users should read this guide. |
| *P6 Analytics and P6 Reporting Database Planning and Sizing Guide* | This guide details how to plan your installation and ensures you have the necessary technical specifications to successfully install P6 Analytics and P6 Reporting Database. It also includes checklists for P6 Analytics and P6 Reporting Database to help guide you through the installation.<br>All administrators should read this guide. |

| Title | Description |
|---|---|
| *P6 Analytics and Star Database Installation and Configuration Guide* | This guide gives step-by-step instructions for installing and configuring P6 Analytics and the Star database portion of P6 Reporting Database.<br>All administrators should read this guide. |
| *P6 Reporting Database for ODS Installation and Configuration Guide* | This guide explains how to install and configure the ODS portion of P6 Reporting 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 and configure P6 Reporting Database with BI Publisher.<br>All administrators should read this guide. |
| *P6 Analytics Post Installation Administrator's Guide* | 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.<br>All administrators should read this guide. |
| *P6 Analytics Reference Manual* | This manual has examples of sample dashboards and Burn Down activity use cases. It also tells users how to get started with P6 Analytics.<br>All non-administrator users should read this guide. |
| *P6 EPPM and P6 Analytics 3.2 System Architecture Data Sheet* | The data sheet provides information on P6 EPPM, P6 Analytics, and P6 Reporting Database. It also provides a diagram to show how all products work together.<br>All administrators should read this guide. |
| *Security Guidance for P6 Analytics and P6 Reporting Database* | This guide enables you to plan your security strategy for P6 Analytics and P6 Reporting Database. It includes information on safe deployments, authentication options, and specific security settings for the Star and ODS database.<br>All administrators should read this guide. |
| *Tested Configurations* | Lists the configurations that have been tested and verified to work with P6 Analytics.<br>The network administrator/database administrator and P6 Analytics administrator should read this document. |

### 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

## Where to Get Support

### 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.

# Legal Notices

Oracle Primavera P6 EPPM and P6 Analytics System Architecture Data Sheet

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