Oracle Primavera Analytics System Architecture Data Sheet for On-Premises

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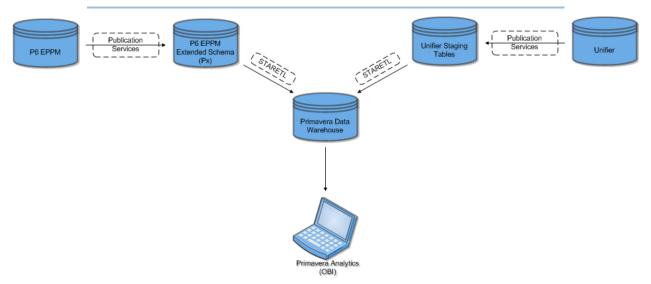
Working with Oracle Primavera Analytics

Depending on your organization's specific deployment, P6 EPPM and Primavera Unifier work together with Primavera Data Warehouse and Primavera Analytics as depicted below.

For On-Premises

Use either the PL/SQL-based or ODI-based StarETL process.

Note: The term, StarETL, when used generically, applies to PL/SQL as well as ODI.



Applications:

P6 EPPM and **Primavera Unifier:** P6 EPPM and Primavera Unifier are the primary interfaces for administering and managing projects. In one or both of these applications, you will gather the data on which Primavera Analytics will report. P6 EPPM and Primavera Unifier provide an extensive array of features designed to optimize all phases of Project Management, Resource Management, and Portfolio Management. They include 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 Primavera Data Warehouse.

Primavera Analytics: This integrated dynamic reporting tool uses the gathered data 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 P6 EPPM database includes the P6 Extended Schema (Px) optimized for reporting.

The Unifier Database: The main database for Primavera Unifier data. The Primavera Unifier database includes the Primavera Unifier Staging Tables optimized for data extraction.

Primavera Data Warehouse: Primavera Data Warehouse consists of the Star database. It pulls data from the P6 EPPM Extended Schema and the Primavera Unifier Staging Tables, which can then be used to create reports. The Primavera Data Warehouse database accumulates project and cash flow 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. You can use tools, such as OBI, to analyze the data in Primavera Data Warehouse.

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About Oracle Primavera Analytics

Oracle Primavera Analytics provides an in-depth and comprehensive method for analyzing and evaluating facilities and real estate management, project performance, project history, resource assignments and utilization, business processes, cash flows, and cost sheets.

Built upon the Oracle Business Intelligence (OBI) suite, Primavera Analytics delivers a catalog of analyses that provide an interactive way of viewing, analyzing, and evaluating P6 EPPM and Primavera Unifier data. In addition, Primavera Analytics provides a repository definition that contains the data mappings between the physical data and the presentation layer of OBI.

The dashboards provide detailed insight into your P6 EPPM and Primavera Unifier 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 P6 EPPM and Primavera Unifier Action Links, enabling you to navigate directly to your P6 and Unifier site for true "Insight to Action" capabilities. You can save an analysis created with OBI in the OBI Presentation Catalog and integrate the analysis into any OBI dashboard. You can enhance results through options such as charting, results layout, calculations, and drill-down features.

Use Primavera 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.
- > Drill down from aggregated metrics to examine the root-cause of a problem.
- Make better decisions to eliminate project failure.

- > Quickly visualize critical project performance in early stages.
- Identify and predict cost sheet and cash flow trends early in the project life cycle.
- Gain visibility into resource performance through s-curve analysis.
- Show staffing needs by portfolio with early warning indicators for upcoming under-staffed project work.
- Roll-up business processes to understand trends and trends by various dimensions.
- Use geospatial visualization to view project, activity, and resource data metrics by geographic location with full drill-down capabilities.

Primavera Analytics provides a repository definition to use with the OBI suite. The repository definition contains:

- A physical representation of Primavera Data Warehouse.
- A business layer to perform customized calculations.
- A presentation layer that groups all the calculated business layer fields into logical subject areas.

The repository definition delivers an extensive list of key performance indicators (KPIs) from Primavera Unifier, and P6 EPPM. Depending on the data source, this list includes (but is not limited to) Earned Value, Costs, Units, Percent Completes, Counts, Business Processes, Lean, Resource Assignment, Schedule Health, Cash Flow, and Cost Sheets. It also enables data to be sliced by various dimensions, including time, EPS, portfolios, projects, activities, resources, project hierarchies, cost breakdown structures, and business processes.

Primavera Analytics delivers a sample dataset, consisting of Primavera Data Warehouse 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 Data Warehouse

Primavera Data Warehouse works with the P6 EPPM database and the Primavera Unifier database to provide a robust and powerful reporting solution.

Primavera Data Warehouse enables an organization to perform advanced business analysis on project and portfolio data. It supplies a dimensional schema that organizes P6 EPPM and Primavera Unifier hierarchical relationships. The Primavera Data Warehouse schema allows organizations to store data for History Levels (Project, WBS, Activity, Business Process, Cost Sheet, Cash Flow, Assignment, User-Defined Fields, or Codes) for a specific History Interval (Year, Quarter, Financial Period, Month, Week, or Day). This data allows for tracking trends for advanced business intelligence. Primavera Data Warehouse captures data for activities, resource assignments and utilization, space management, business processes, cash flows, cost sheets, and user-defined fields. Primavera Analytics requires Primavera Data Warehouse.

About Oracle Data Integrator (ODI)

Oracle Data Integrator (ODI) Enterprise Edition delivers high performance data movement and transformation among enterprise platforms with its open and integrated E-LT architecture and extended support for Big Data. Oracle Data Integrator Enterprise Edition is critical to leveraging data integration initiatives on-premise or in the cloud, such as Big Data management, Service Oriented Architecture and Business Intelligence. An easy to use user interface combined with a rich extensible framework helps Oracle Data Integrator Enterprise Edition improve productivity, reduce development costs and lower total cost of ownership among data centric architectures. Oracle Data Integrator Enterprise Edition Middleware, Oracle GoldenGate, Oracle Database, Oracle Big Data Appliance and Exadata to put data at the center of your enterprise. Oracle Data IntegratorEnterprise Edition is open and standards based to work with 3rd party applications as well as Oracle's applications.

For On-Premises

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About Oracle Primavera P6 Enterprise Project Portfolio Management

Oracle Primavera P6 Enterprise Project Portfolio Management (P6 EPPM) is a robust and user-friendly 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 Oracle Primavera Unifier

Designing, building, and managing facilities requires extensive collaboration between numerous, often geographically dispersed, disciplines and entities. Throughout the process, from conceptual design to facility operations, access to accurate, up-to-date information is critical to the success of a project and facility.

Oracle Primavera Unifier is an integrated platform that optimizes business processes and creates visibility to enable customers to better manage all of the communications and information required to successfully manage a facility throughout the life cycle.

Primavera Unifier is a system for managing the flow of information in projects or shells, providing a seamlessly automated and integrated environment across the life cycle of your company's facilities, from planning, design, procurement, construction and into operations and maintenance. It provides real-time visibility across multiple projects or shells to help your company make fast, accurate decisions.

Primavera Unifier lets you track and manage information such as budgets, project or shell members, specifications, requests for information, and shared documents. You decide who has access to the information, which team members are allowed to approve changes to the information, and how information flows between people.

Oracle Primavera's solutions automate manual processes and pull together information from various point systems typically used on a portfolio of projects or shells. Through Primavera Unifier, executives and project or shell team members can better manage all data and business processes in one centralized system, while reducing the reliance on older technologies such as e-mail, fax, and desktop applications.

Primavera Unifier was designed from the ground up specifically for the facility owner, based upon our industry domain expertise and knowledge of best practices combined with direct customer input gathered over decades of client interaction. The result is a robust set of capabilities with an intuitive, easy-to-use interface. Primavera Unifier enables leading owners and operators to increase enterprise efficiencies, reduce project and operating costs, enhance visibility, and improve time-to-market.

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Oracle Primavera Analytics System Architecture Data Sheet for On-Premises

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