

ORACLE®

PRIMAVERA

**What's New in P6 Analytics
Release 3.2**

October 2013

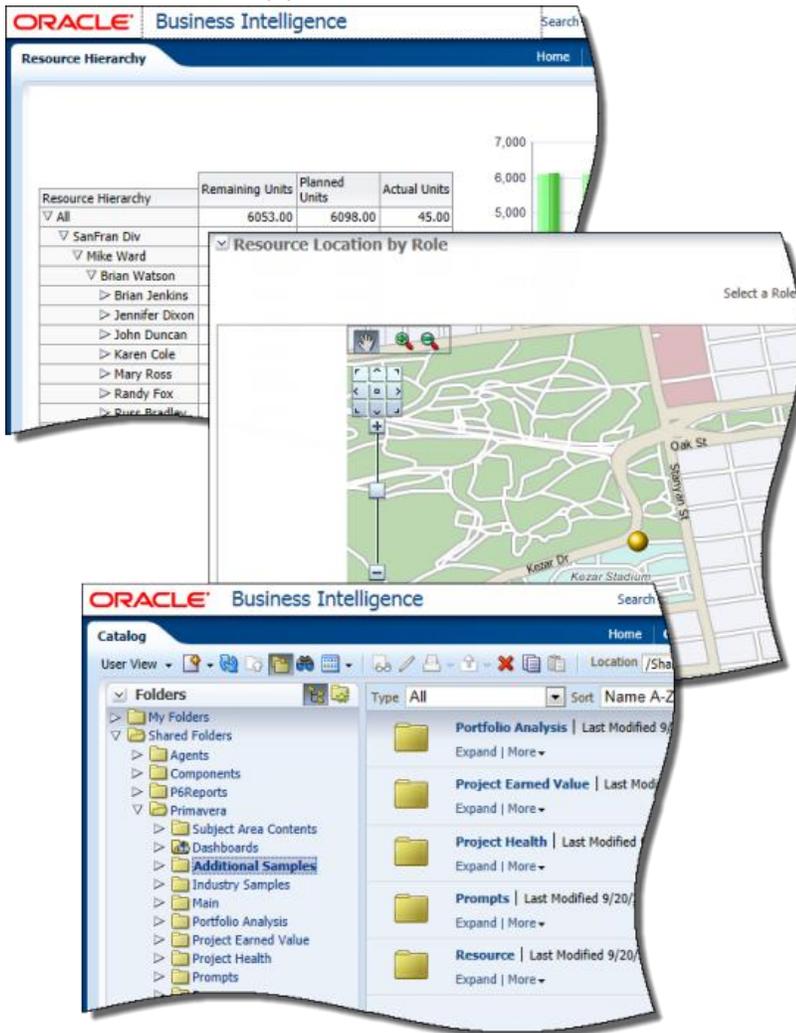
Contents

What's New in P6 Analytics R3.2.....	3
Resource and Role Hierarchies.....	4
New Fields	5
Updated Catalog.....	6
Oracle Maps	8
Support for INPO AP-928 Schedule Adherence	9
Additional Enhancements.....	10
Legal Notices	11

What's New in P6 Analytics R3.2

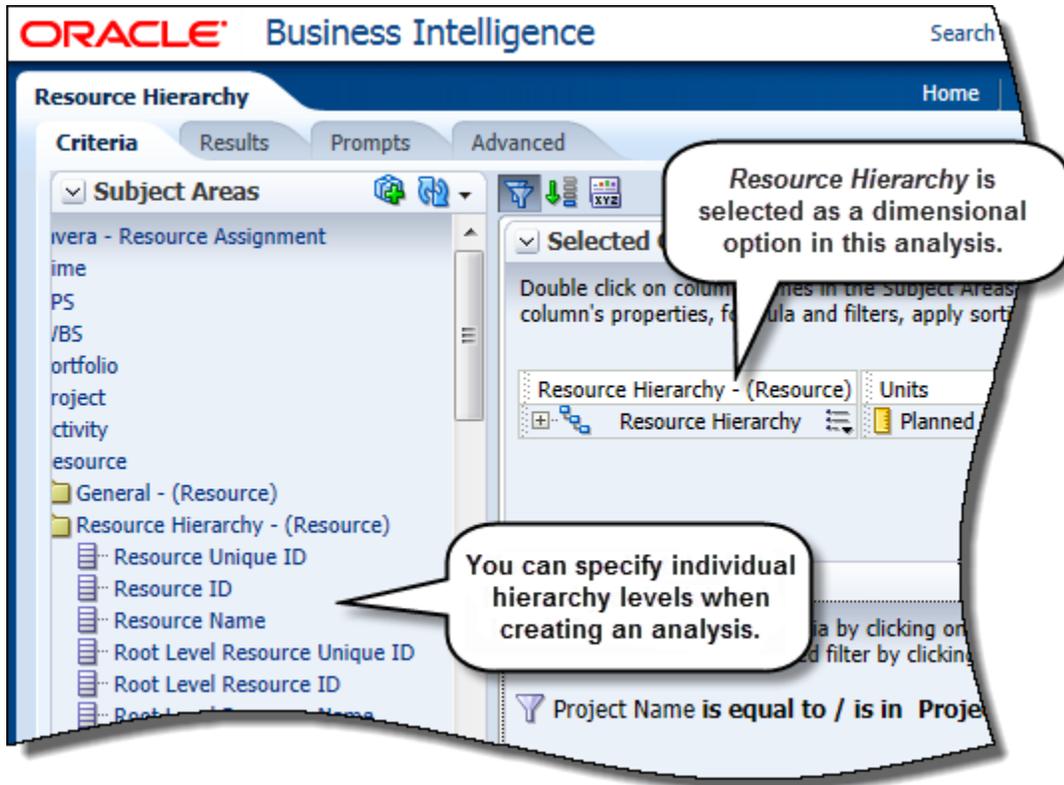
Enhancements in P6 Analytics 3.2 include:

- ▶ Resource and role hierarchies
- ▶ New fields
- ▶ Updated catalog
- ▶ Oracle maps
- ▶ Support for INPO AP-928 schedule adherence
- ▶ Support for non-midnight data date in P6
- ▶ New ETL process
- ▶ OBI 11.1.1.7+ support



Resource and Role Hierarchies

P6 Analytics 3.2 incorporates resource and role hierarchies exactly as they are displayed in P6. Resource and role hierarchies are available as dimensional options in relevant analysis subject areas, offering another perspective into P6 data.



To access this feature:

- *Resource Hierarchy* is available in the *Activity*, *Resource Assignment*, *Resource Assignment User Defined Fields*, *Resource User Defined Fields*, and *Resource Utilization* subject areas.
- *Role Hierarchy* is available in the *Resource Assignment* subject area.

New Fields

P6 Analytics 3.2 supports three new dimensional fields -- *Project Owner*, *Risk Exposure Start*, and *Risk Exposure Finish* -- for expanded P6 data analysis capabilities.

The screenshot shows the Oracle Business Intelligence interface with a table titled "Risk by Project Owner". The table has columns for Project Owner, Project Id, Project Risk Score, Project Risk Exposure, Risk Name, Risk Type, Risk Status, Risk Exposure Start, Risk Exposure Finish, and Link to Risks. The data is grouped by Project Owner: Barbara Rice, PMO Director; Gary Marshall; and Jeff Young. Callouts highlight the new fields: "Project Owner" and "Risk Exposure Start and Risk Exposure Finish".

Project Owner	Project Id	Project Risk Score	Project Risk Exposure	Risk Name	Risk Type	Risk Status	Risk Exposure Start	Risk Exposure Finish	Link to Risks
Barbara Rice, PMO Director	IT00351	39.00	\$56,875	Client / User Involvement	Threat	Open	4/26/2011	8/17/2011	Project Risks
				External Business Impacts	Threat	Open	4/4/2011	8/17/2011	Project Risks
				Scope Creep	Threat	Active	4/26/2011	7/8/2011	Project Risks
				Senior Management Buy-in	Threat	Open	4/4/2011	4/26/2011	Project Risks
				Staff Turnover	Threat	Open	4/28/2011	7/8/2011	Project Risks
				Technological Complexity	Threat	Open	6/10/2011	7/18/2011	Project Risks
Gary Marshall	PROD00414	42.00	\$61,563	Unrealistic Expectations	Threat	Open	4/7/2011	5/17/2011	Project Risks
				Client / User Involvement	Threat	Open	4/27/2011	7/28/2011	Project Risks
				External Business Impacts	Threat	Open	2/1/2011	7/28/2011	Project Risks
				Product Scope Creep	Threat	Open	2/8/2011	4/28/2011	Project Risks
				Product/Technological Complexity	Threat	Open	2/8/2011	7/28/2011	Project Risks
				Sales Management Buy-in	Threat	Open	2/1/2011	3/1/2011	Project Risks
Jeff Young	EC00610	119.00	\$334,875	Staff Turnover	Threat	Open	3/1/2011	3/22/2011	Project Risks
				Unrealistic Expectations	Threat	Open	2/8/2011	3/22/2011	Project Risks
				Concrete supply constrained	Threat	Active	9/1/2010	5/17/2013	Project Risks
	NRG00870	112.00	\$43,725	Poor ground conditions	Threat	Open	9/1/2010	9/24/2014	Project Risks
				Site access restricted for 2 weeks	Threat	Open	9/1/2010	9/24/2014	Project Risks
				Weather delay due to unusually wet weather	Threat	Active	9/1/2010	9/24/2014	Project Risks
Difficulty troubleshooting alarm issue	Threat	Open	8/1/2011	8/2/2011	Project Risks				
Extensive leak repair	Threat	Open	8/6/2013	8/7/2013	Project Risks				
							8/1/2011	8/12/2011	Project Risks
							8/5/2013	8/27/2013	Project Risks

New P6 Analytics fields include Project Owner...

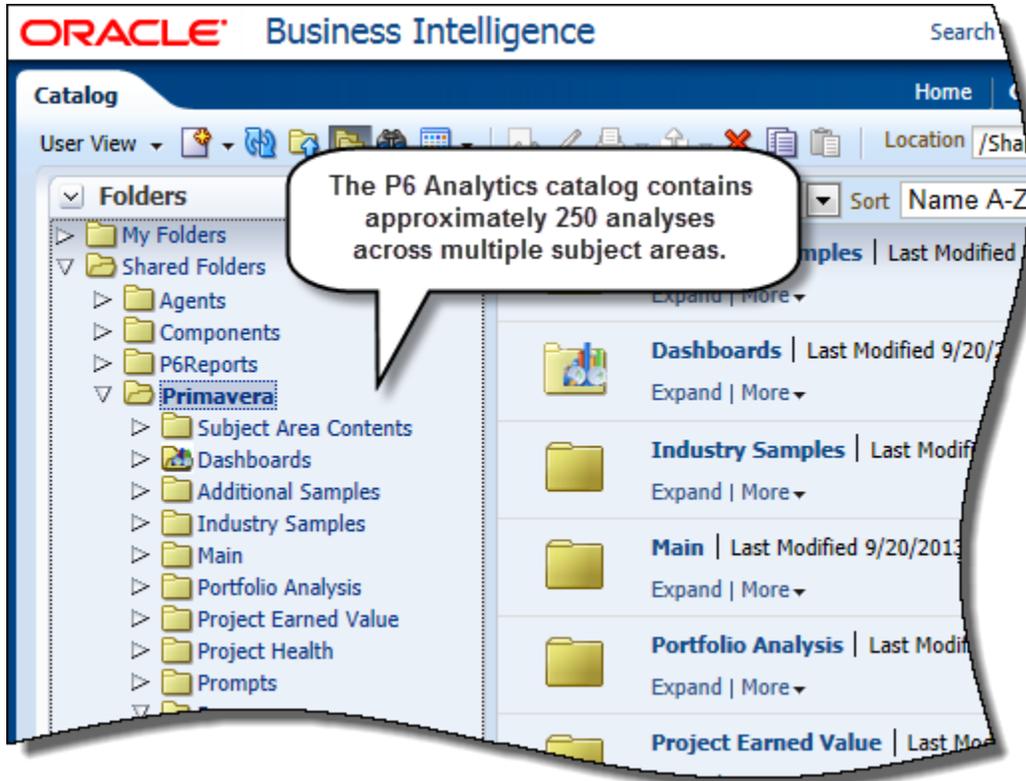
...and Risk Exposure Start and Risk Exposure Finish.

To access this feature:

- *Project Owner* is available in all subject areas except *Burn Down*, *Resource User Defined Fields*, *Resource Utilization*, and *Work Planning*.
- *Risk Exposure Start* and *Risk Exposure Finish* are available in the *Activity* and *Activity History* subject areas.

Updated Catalog

The P6 Analytics 3.2 sample catalog is updated to reflect new functionality in P6 Analytics and Oracle Business Intelligence (OBI). Approximately 250 analyses are now available that you can use immediately, display on dashboards, or modify to create new analyses.



Analyses and the catalog folders in which they are located:

Additional Samples

Portfolio Analysis: Portfolio Analysis Trending - with line graph; Portfolio View (table)

Project Earned Value: Budgeted vs. Forecast vs. Actual by Calendar Period; Budgeted vs. Forecast vs. Actual by Financial Period; Cost History Table; Cost Progress Overall; Cost Trend; Detailed Earned Value; Matrix Year by Strategic Objective, Cost Account; Project Earned Value Breakdown; Total Project Budget Variance; WBS Earned Value

Project Health: % of Projects Behind Schedule 1-1; Activities by Status; Activities Status by Country (w/map); Activity History; Activity Worksheet; Actual vs. Budget; At Completion Cost by City (w/map); Budget Variance by Location (w/map); Cost % Completed (narrative); Critical Activities Behind Schedule; Critical Activities Behind Schedule 1-2; Daily Performance; Daily Performance Chart; Early Stage Projects over Budget (gauge); Gantt Chart for Risk Level; Location (Bar); Milestone; Milestone 1-1; Milestone Schedule Variance (Bottom 10 in Days); Milestone Schedule Variance (In Days); Milestone Schedule Variance (Top 10 in Days); Overall Project Score; Project Location View; Project Cost Breakdown; Project History At Completion Cost & Units; Project Request; Project Spend by Cost Account; Project Trend; Risk by Location (ATC); Risk Score by Location (w/map); Scatter Diagram; Schedule Performance and SPI; Street View (w/map); Ticker View

Resource: % of Resource Utilization; % Overallocated Resources (chart w/time); % Overallocated Resources (gauge); % Overallocated Resources 1-1; Actual, Remaining, and Limit Histogram; Bottom 10 Resource Remaining Units; Daily Hours by Department; Labor Performance; Labor Units Pivot Table; Periodic Variance; Periodic vs. Cumulative; Planned Units; Project Staffing; Resource Alignment Forecasted; Resource Alignment to Date; Resource Availability; Resource Remaining Cost with Cumulative; Resource Utilization Overview; Resource Utilization Overview 1-1; Staffed vs. Unstaffed; Top 10 Overallocated by Dept & Loc; Top 10 Resource Remaining Units; Top 10 Underallocated by Department/Location; Utilization Histogram

Industry Samples

Routine/Online Maintenance: Daily Schedule Adherence; Daily Schedule Adherence - Graded; Daily Schedule Adherence - Graded (nav); Schedule Compliance; Schedule Compliance (nav); Schedule Stability Drill Down; Work Planning Maintenance Look Ahead; Work Planning Maintenance Look Ahead Emergent Work (nav); Work Planning Maintenance Look Ahead Ops Clearance (nav); Work Planning Maintenance Look Ahead Parts Availability (nav); Work Planning Maintenance Look Ahead Parts ID (nav); Work Planning Maintenance Look Ahead Schedule Stability (nav); Work Planning Maintenance Look Ahead Scope Stability (nav); Work Planning Maintenance Look Ahead Scope Survival (nav); Work Planning Maintenance Look Ahead Walkdowns Complete (nav); Work Planning T Plus One Critique; Work Planning Top Level

Shutdown/Turnaround/Outage: Average Actual vs. Baseline; Average Actual vs. Baseline - ORIG; Baseline vs. Actual Remain; Baseline vs. Actual Remain - ORIG; Burn Down Count; Burn Down Count - ORIG; Burn Down Emergent Remaining Activity Worksheet (nav); Burn Down Hours; Burn Down Hours - ORIG; Burn Down Original Remaining Activity Worksheet (nav); Daily

Performance; Daily Performance - ORIG; Daily Performance Index; Daily Performance Index (AVG); Data as of; Schedule Compliance; Schedule Compliance (nav)

Main

Location: At Completion Cost by Country (Bar); At Completion Cost by Country (Table); Cost by Country (Tile); Cost by Country (Tile)(nav); Highest CPI by Country (Tile); Highest EV by Country (Tile); Lowest CPI by Country (Tile); Lowest EV by Country (Tile); Total Cost by Location

Overview: % of projects behind schedule; % of projects behind schedule (narrative); % overallocated Resources (gaugeN); Cost Variance (narrative); Cost Variance (nav.); Early Stage Projects over Budget (chart); Early Stage Projects over Budget (chart) (nav.); Early Stage Projects over Budget (gaugeN); Early Stage Projects over Budget (narrative); Portfolio View (table); Schedule performance; Schedule performance (nav.); Scorecard (Most strategic in-flight)

Risk: Detail Risk; Risk by Country

Portfolio Analysis

Objectives: Improved Customer Satisfaction (Project Performance by Sponsor); Increased Customer Retention (Project Performance by Sponsor); Investment by Strategic Objective; Project Performance by Sponsor (nav.); Reduced Cycle Time (Project Performance by Sponsor); Regulatory Compliance (Project Performance by Sponsor); Revenue Growth (Project Performance by Sponsor)

Overview: Project Investment Map; Project Performance by Sponsor; Proposed vs. Committed Cost; Proposed vs. Committed Cost (nav.)

Performance: Portfolio Analysis Trending; Portfolio Analysis Trending (nav.); Portfolio View (nav.); Portfolio View (table)

Prioritization: Project Initiation; Project Initiation (nav.); Project Priority; Project Priority II; Radar by Rating; Score by Rating

Project Earned Value

CPI/SPI: CPI/SPI; Earned Value Bullseye; Scatter Diagram

Detailed EV: Detailed Earned Value by WBS; WBS Earned Value

Overview: Earned Value Overview; Project Earned Value Breakdown

Project Health

Cost: Cost by Type; Cost Tiles; Cost Trend; Expense Cost (nav); Labor Cost (nav); Material Cost (nav); Nonlabor Cost (nav); Project Cost Breakdown; Resource Base (nav); Resource Expense (nav); Resource Labor (nav); Resource Material (nav); Resource Nonlabor (nav); Resource Total (nav); Total Cost (nav); WBS Base (nav); WBS Expense (nav); WBS Labor (nav); WBS Material (nav); WBS Nonlabor (nav); WBS Total (nav)

History: Detailed Activity History; Detailed Activity History (nav); Project Trend

Location: Code Hierarchy Pie; Location (drill); States by Units (Pie)

Overview: Cost Account; Cost Account (nav.); Cost Account (nav2.); Cost Account (nav3.); Cost Account (nav4.); Cost Account (nav5.); Information View; Information View (nav.); Overall Project Score; Project Owner

Schedule: Activity Actual, Remaining, at Complete Units; Activity Worksheet; Activity Worksheet (nav2.); Cost Percent (nav); Critical Activities behind Schedule; Critical Activities behind Schedule (nav); Critical Activities behind Schedule (table); Data Date Act vs. Rem; Float Path Analysis; Float Path Analysis Chart; Labor Performance Charts; Labor Performance Table; Labor Units Percent (nav); Nonlabor Units Percent (nav); Percent Complete History; Percent Complete Tiles; Perf % vs. Cost %; Schedule Percent (nav); Units Percent (nav)

Resource

% overallocated Resources; At Completion by Resource Location, by Project Business Segment; Resource Alignment Forecasted 1-1; Resource Alignment to Date 1-1; Resource Rem Units; Top 10 At Completion Units

Location: Resource City Map

Overview: % overallocated Resources (chart); % overallocated Resources (gauge); % overallocated Resources (gaugeN); % overallocated Resources (Narrative); % overallocated Resources (nav); At Completion by Resource Location, by Project Business Segment; Limit Plus 25; Limit Plus 25 (nav); Resource Alignment Forecasted; Resource Alignment to Date; Resource Hierarchy; Role Hierarchy; Top 10 overallocated by Department/Location 1-1; Top 10 underallocated by Department/Location 1-1

Productivity: Daily & Average SPI; Productivity Chart per Resource per Time Period; Resource Team Utilization; Team Progress

Staffing: % overallocated Resources by Codes; % overallocated Resources by Codes (nav.); Staffed/Un by Location;

Staffed/Unstaffed by Project; Staffing (nav.); Total Hours by Role; Total Hours by Team

Utilization: Capacity; Histogram; Resource Availability with Chart

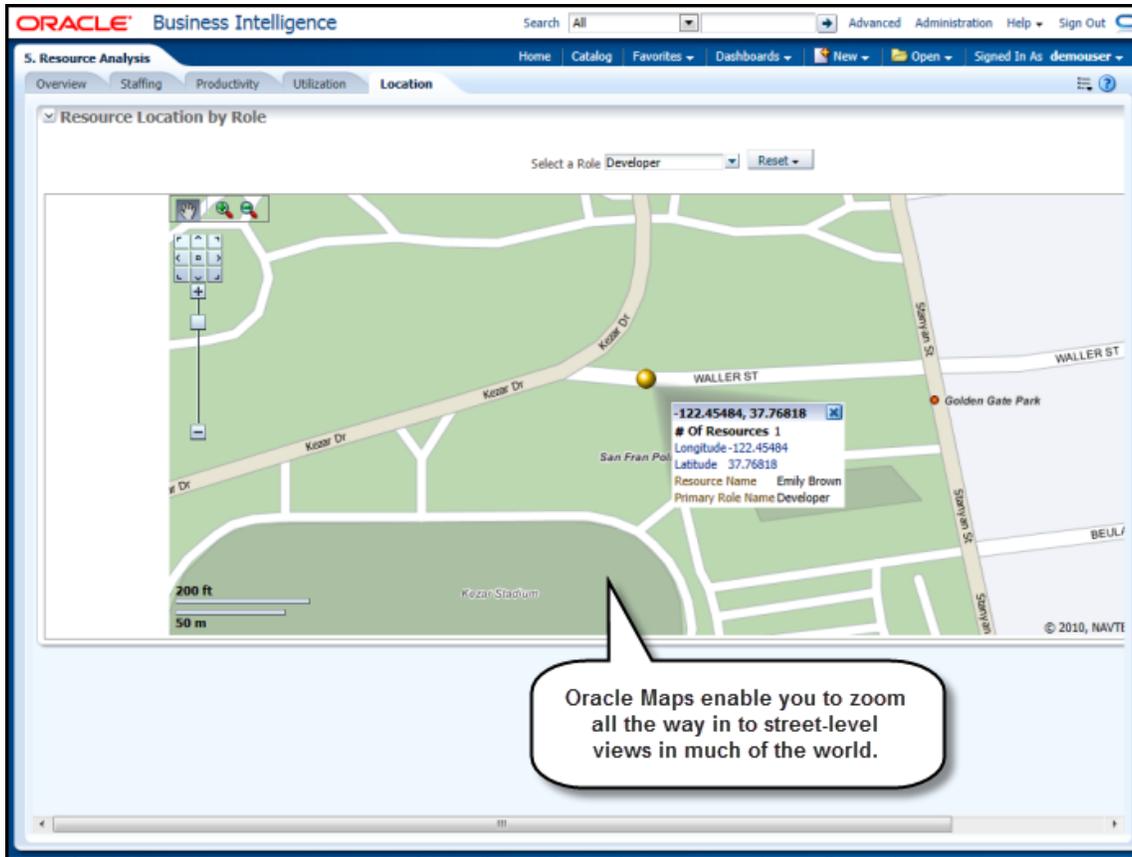
To access this feature:

On the global header, click *Catalog*, and then in the Folders pane, click the pointer to expand *Shared Folders* and *Primavera*.

- To access analyses that appear on P6 Analytics sample dashboards, click the pointer to expand the corresponding folder. For example, to access analyses that appear on the *Main* dashboard, click the pointer to expand the *Main* folder.
- To access analyses and prompts that do not appear on P6 Analytics sample dashboards, click the pointer to expand *Additional Samples*, and then click the pointer to expand a sub-folder.

Oracle Maps

P6 Analytics 3.2 sample maps now leverage Oracle's eLocation services, which provides maps for most locations around the world. (Current exceptions include China, Japan, and South Korea.) Use the feature on location dashboards to zoom in to a street address or to a set of GPS coordinates.



To access this feature:

Navigate to a P6 Analytics dashboard that has been configured to display location data, and then zoom in to view street-level maps.

Support for INPO AP-928 Schedule Adherence

P6 Analytics 3.2 provides out-of-the box support for the Institute of Nuclear Power Operations (INPO) Work Management Industry (AP-928) standards for schedule adherence during plant maintenance. The protocol divides activities into four grades, from most to least critical:

- Grade A: Tracked on an hourly basis. Activity must be completed within one hour of its scheduled finish date.
- Grade B: Tracked on a daily basis. Activity must be completed on the day of its scheduled finish.
- Grade C: Tracked on a weekly basis. Activity must be completed within the week of its scheduled finish.
- Grade D: Not tracked.

New analyses added to the P6 Analytics sample catalog collect P6 schedule data for each grade and compare actual and scheduled finish dates/times to calculate graded adherence.

ORACLE Business Intelligence Search

Daily Schedule Adherence - Graded Home

The Graded Approach tracks schedule adherence using four distinct levels of work

Team	Grade	04/07/2014			04/08/2014			Schedule
		Scheduled	Completed	%	Scheduled	Completed	%	
Electrical Maintenance	B	2	2	100.0%	2	1	50.0%	3
	C	1	1	100.0%	0	0	0.0%	1
Instrumentation and Controls	B	0	0	0.0%	3	3	100.0%	
	C	2	2	100.0%	4	4	100.0%	
Mechanical Maintenance	B	3	3	100.0%	0	0	0.0%	
	C	0	0	0.0%	0	0	0.0%	
Operations Clearance	A	0	0	0.0%	1	1	100.0%	
	B	4	4	100.0%	2	2	100.0%	
	C	2	2	100.0%	0	0	0.0%	
Grand Total		14	14	100.0%	12	11	91.7%	

Edit - Refresh - Print

INPO AP-928 schedule adherence supports 4 activity levels, displayed in the Grade column.

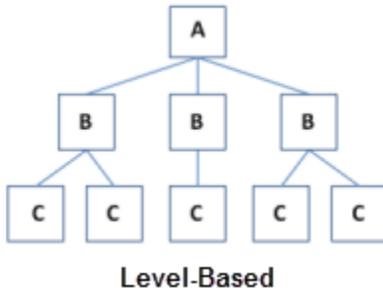
To access this feature:

Schedule adherence analyses are contained in the *Industry Samples* folder in the P6 Analytics catalog. Customers must modify the analyses with a code or UDF to reflect the schedule grade. (An activity code is used in the sample data.)

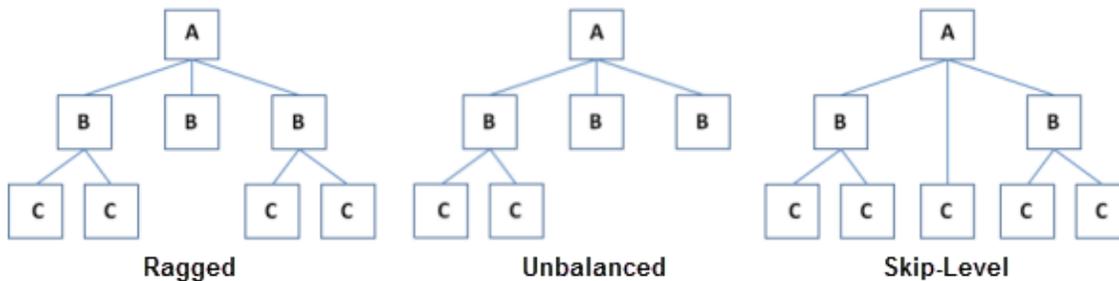
Additional Enhancements

Ragged, Unbalanced, and Skip-Level Hierarchy Support

Most relational query tools only support level-based hierarchies, requiring administrators to repeat levels and employ work-around calculations when dealing with irregular hierarchies.



P6 Analytics 3.2 now also supports ragged, unbalanced, and skip-level hierarchies, taking full advantage of the underlying Oracle Business Intelligence 11g platform. These hierarchies enable administrators to more easily create hierarchies that reflect the real-world conditions in which their companies operate.



Enhanced ETL Process Provides Non-Midnight Data Date Support

P6 Analytics 3.2 employs a new ETL process that eliminates restrictions on the P6 data date for daily reporting in the *Burn Down* and *Work Planning* subject areas. The change enables a data date to be set at any time of the day in P6. This feature is important for asset-intensive use cases where work execution is closely monitored and the P6 schedule might require an update at any given time.

OBI 11.1.1.7+ Support

P6 Analytics 3.2 now supports Oracle BI 11.1.1.7+ on Oracle WebLogic in addition to OBI 11.1.1.6+.

Legal Notices

Oracle Primavera What's New in P6 Analytics

Copyright © 2008, 2013, Oracle and/or its affiliates. All rights reserved.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.