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S P A T I A L

April 2010

Oracle Spatial User Conference

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April 29, 2010

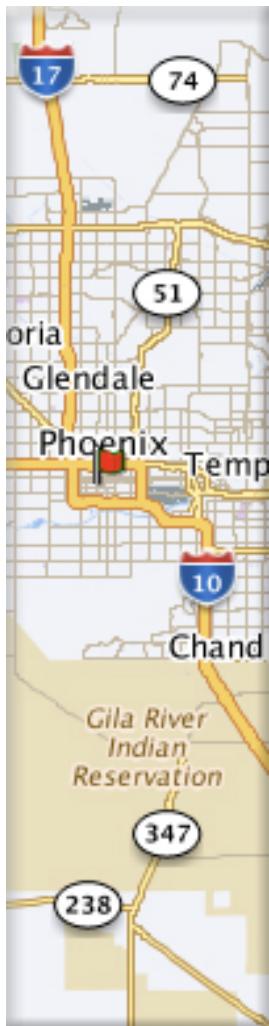
Hyatt Regency Phoenix

Phoenix, Arizona USA

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Jayant Sharma

Technical Director, Spatial

Mike Sicilia

VP Development, Oracle Primavera

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Integrating MapViewer with Primavera Project Management and Business Intelligence Applications



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Introduction to Oracle Primavera P6

- Primavera P6 Enterprise Project Portfolio Management is an integrated project portfolio management (PPM) solution comprising role-specific functionality to satisfy each team member's needs, responsibilities, and skills.
- Provides a single solution for managing projects of any size, adapts to various levels of complexities within a project, and intelligently scales to meet the needs of various roles.

Oracle Primavera P6

Benefits

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- Plan, schedule, and control large-scale programs and individual projects
- Select the right strategic mix of projects
- Balance resource capacity
- Allocate best resources and track progress
- Monitor and visualize project performance versus plan
- Foster team collaboration
- Integrate with financial management and human capital management systems

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Compare
and contrast
project
performance
across
division or
enterprise

Primavera - Dashboards - Windows Internet Explorer

http://localhost:8080/myprimavera/action/dashboards?DashboardId=150&firstTab=100

Primavera - Dashboards

PRIMAVERA

Dashboards Portfolios Projects Resources Administration

Personal Workspace Executive Dashboard Facilities Division D... All Divisions - Stra... Commercial Contracts...

All Divisions - Strategic Programs

Filter by Portfolio: Strategic Programs B

Manage Dashboards | Manage Portfolios | Import Appointments

Expand All | Collapse All | Customize

*Cash Outflow Scorecard

Expand | Collapse | Export Spreadsheet | Customize

Name	Original Budget	Projected Final Cost	Budget Variance (%)	Design Engineer FTE	Project Manager FTE's	Win Confidence (%)
Total	\$74,205,000	\$84,910,000	15.47	87	51	41
Savannah Perimeter Security Sy...	\$2,780,000	\$2,560,000	-7.91	2	2	91
Georgia Tech Nuclear Reactor D...	\$7,500,000	\$7,000,000	-6.67	2	2	81
Hampton Gardens Senior Comm...	\$3,225,000	\$4,000,000	24.03	3	3	71
Aegis Controls System Consolida...	\$7,500,000	\$10,650,000	42.00	6	5	71
Hampton Gardens Senior Comm...	\$4,000,000	\$5,000,000	25.00	4	1	71

*Q3 2007 Cash Flows

Customize

Q3 07 \$ Flow (Dollar)

*Q4 2007 Cash Flows

Customize

Q4 07 \$ Flow (Dollar)

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Anticipate
issues, cost
or schedule
exceedance
across your
business

PRIMAVERA

Personal Workspace Executive Dashboard Facilities Division D... All Divisions - Stra... Commercial Contracts...

All Divisions - Strategic Programs

Filter by Portfolio: Strategic Programs B

Manage Dashboards | Manage Portfolios | Import Appointments

***Cash Outflow Scorecard**

Expand | Collapse | Export Spreadsheet | Customize

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***Q3 2007 Cash Flows**

Customize

***Q4 2007 Cash Flows**

Customize

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Track
Project-,
Division-, or
Enterprise-
cash flow

PRIMAVERA

Personal Workspace Executive Dashboard Facilities Division D... All Divisions - Stra... Commercial Contracts...

All Divisions - Strategic Programs

Filter by Portfolio: Strategic Programs B

Manage Dashboards | Manage Portfolios | Import Appointments

***Cash Outflow Scorecard**

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***Q3 2007 Cash Flows**

***Q4 2007 Cash Flows**

Q3 07' \$ Flow (Dollar)

Q4 07' \$ Flow (Dollar)

Customize

Customize

Legend: Aegi (purple), Coas (light blue), Data (pink), Data (yellow), Gas (green), Geor (grey), Hamp (yellow), Linc (light green), New (red), RFID (dark blue), Sant (blue), Sava (light green), Seat (red), Stry (dark blue), TVA (dark blue).

Using Primavera P6 and Oracle Spatial Together

- Oracle Spatial — option for Oracle Database 11g, Enterprise Edition
 - MapViewer, is the visualization component
- P6 activity codes and user defined fields can be used for out of the box integration with Spatial
- Easily create real time geographically oriented mash-ups showing project progress

Using Primavera P6 and Oracle Spatial Together

- Out of the box prototype linking of P6 activity codes and geographic indicators via Web Services APIs
 - City, State
 - Latitude/Longitude
 - Mile markers
- Built using custom portlets feature in P6 and Oracle Locator pack for Oracle database

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D E M O N S T R A T I O N

MapViewer and P6 Integrated

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- Key components:
 - Oracle Spatial
 - MapViewer and MapBuilder
 - P6 version 7.0 or greater EPPM
 - P6 Web Services

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- Key assumptions:
 - P6 project has been tagged with project and/or activity codes
 - Codes are a method by which projects or activities within projects can be tagged with a certain attribute.
 - In this case we are tagging projects or activities with a geospatial attribute.
 - Codes in P6 are associated with some geospatial datatype (city/state, latitude/longitude, etc.)

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- Step 1: Create a Base Map
 - `mapView.display();`

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- Step 2: Define Dynamic Styling
 - Create 2 markers, a green highway marker and a red highway marker.
 - Create a numeric range bucket series, values below .5 will be rendered using the red marker, otherwise use the green marker.

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- Step 3: Create a Theme Based Feature of Interest
 - Create theme based on a query that loads geometries and mile points from a table called `route_mile_markers`
 - Add the styles created to this theme (highway markers and buckets)

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- Step 4: Setup P6 Data
 - Query P6 Web Services to extract data associated with certain project codes that have a geometric datatype

Activity Codes

The screenshot shows a software interface titled 'Activity Codes'. At the top, there are three tabs: 'Global', 'EPS', and 'Project', with 'Global' selected. Below the tabs is a toolbar with various icons for file operations, search, and navigation. The main area is a table with two columns: 'Name' and 'Description'. The 'Name' column lists work types, and the 'Description' column provides a brief description of each. The table has a header row and several data rows. The data rows include: 'Non-Project Work Type' (with a plus sign icon), 'MileMarker' (selected, highlighted in blue), 'MM10' (Mile Marker - Mile 10), 'MM20' (Mile Marker - Mile 20), 'MM30' (Mile Marker - Mile 30), 'MM40' (Mile Marker - Mile 40), and 'MM50' (Mile Marker - Mile 50). The 'MileMarker' row is currently selected, as indicated by the blue background.

Name	Description
Non-Project Work Type	
MileMarker	
MM10	Mile Marker - Mile 10
MM20	Mile Marker - Mile 20
MM30	Mile Marker - Mile 30
MM40	Mile Marker - Mile 40
MM50	Mile Marker - Mile 50

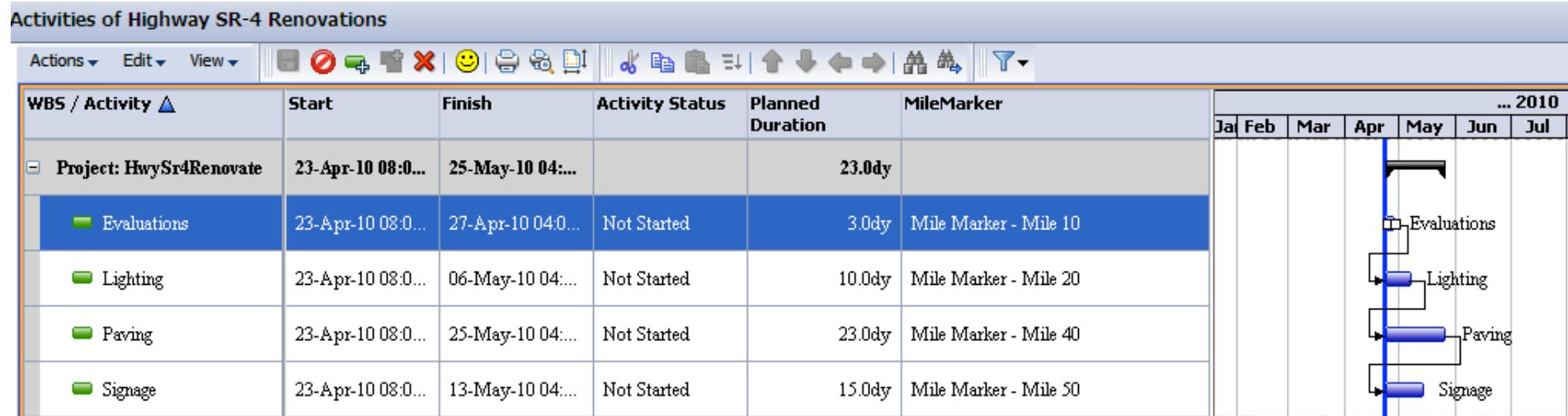
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- Step 4 continued: Setup P6 Data
 - Query P6 Web Services to extract data associated with certain project codes that have a geometric datatype
 - Query P6 using web services and return the content in NSDP XML format



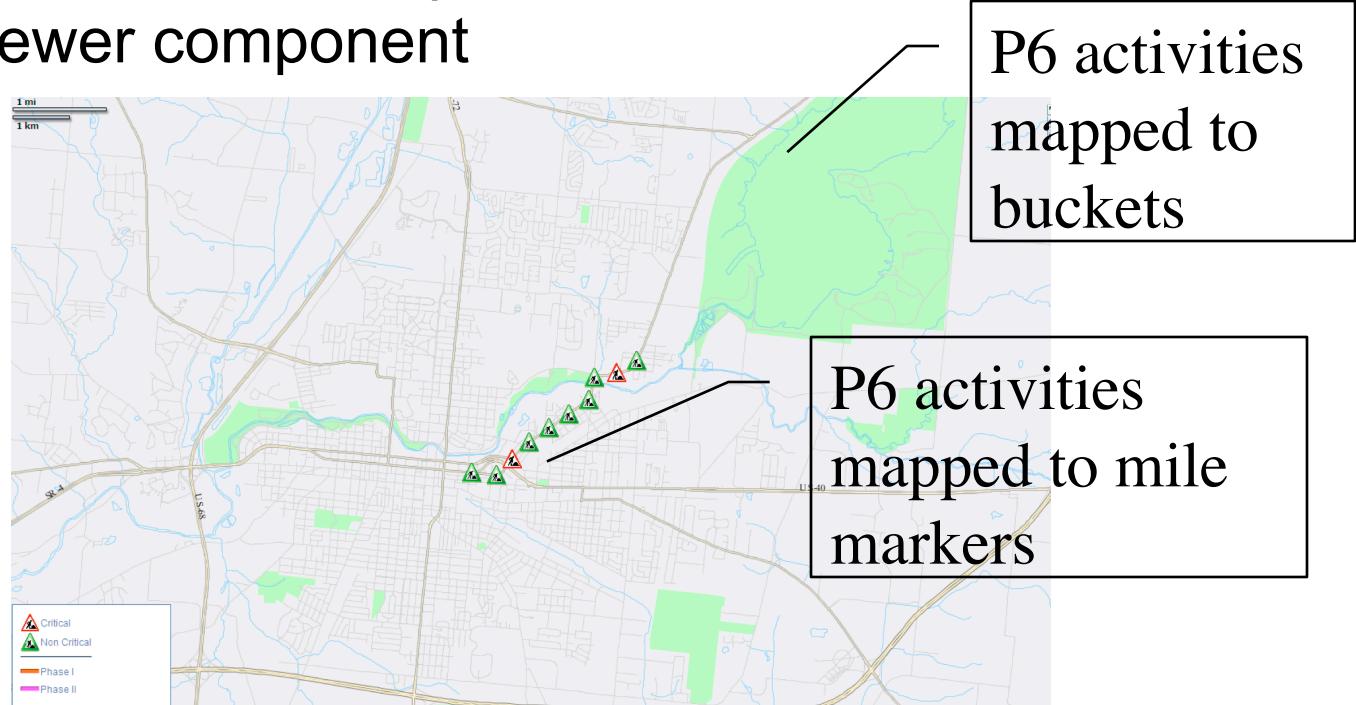
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- Step 5: Add NSDP Join to P6 Data for Thematic Mapping
 - // map the P6 data to points or buckets on the MapViewer component



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