April 2010

Oracle Spatial User Conference
Oracle Spatial

User Conference

April 29, 2010

Hyatt Regency Phoenix

Phoenix, Arizona USA
Integrating MapViewer with Primavera Project Management and Business Intelligence Applications
The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle’s products remains at the sole discretion of Oracle.
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

- 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
Compare and contrast project performance across division or enterprise.
Anticipate issues, cost or schedule exceedance across your business
Track Project-, Division-, or Enterprise-cash flow
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
DEMONSTRATION

MapViewer and
P6 Integrated
Implementing P6-Spatial Integration

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

• 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 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.)
Implementing P6-Spatial Integration

- Step 1: Create a Base Map
  
  - mapView.display();
Implementing P6-Spatial Integration

• 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.
Implementing P6-Spatial Integration

• 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)
Implementing P6-Spatial Integration

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

<table>
<thead>
<tr>
<th>Activity Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
</tr>
<tr>
<td>MileMarker</td>
</tr>
<tr>
<td>MM10</td>
</tr>
<tr>
<td>MM20</td>
</tr>
<tr>
<td>MM30</td>
</tr>
<tr>
<td>MM40</td>
</tr>
<tr>
<td>MM50</td>
</tr>
</tbody>
</table>
Implementing P6-Spatial Integration

- 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
Implementing P6-Spatial Integration

- Step 5: Add NSDP Join to P6 Data for Thematic Mapping
  - // map the P6 data to points or buckets on the MapViewer component
The preceding is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle’s products remains at the sole discretion of Oracle.