



COLLABORATE 15

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

Gateway to the Primavera World

Session ID#:

*Integrating Applications With Oracle
Primavera Gateway*

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APRIL 12-16, 2015
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RESORT & CASINO

#C15LV

REMINDER

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mobile app



- **Serve a wide range of clients in the construction management the construction management and project planning domains including: school districts, general contractors, municipalities, mining, and energy.**
- **We've been an industry leader in providing integration solutions since 2001.**
- **We have dedicated team of subject matter experts excited to custom tailor integrations that solve unique business**



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Primavera Gateway In a nutshell

- *Quick Overview*
- *Who's using Primavera Gateway?*
- *Who should consider Primavera Gateway?*



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In a nutshell:

■ Quick Overview

- Gateway is an application to facilitate data and process integration surrounding Primavera applications.
- Gateway is designed to integrate project, resource, and miscellaneous other data

Streamline business workflows to..

- Improve
 - Efficiency
 - Ease of reporting
- Reduce
 - Process Redundancy
 - Data Redundancy



In a nutshell:

- **Who's using Primavera Gateway?**
 - **New (Recent Version) Primavera Applications**
 - **Unifier leverages Gateway for integration with P6**
 - **Those with interest in the benefits of tighter process and data integration**



In a nutshell:

- **Who should consider Primavera Gateway?**
 - **Organizations currently using recent Primavera applications**
 - **Many opportunities to automate data import / export**
 - **Those with interest in the benefits of tighter process and data integration.**
 - **Those who have found previous integration products too cumbersome in the past.**



Primavera Gateway Vocabulary

Language to better understand Gateway



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Primavera Gateway Vocabulary

- Application Interaction Modes Developer / User
- Providers
 - Data Flow
 - Steps
- Synchronization
- Deployment



Primavera Gateway Vocabulary

■ Application Interaction Modes Developer / User

Gateway's user interface can be used in two primary modes.

Developer mode for the definition of what data should be moved, and from where to where.

User mode allows processes defined in Developer mode to be scheduled and run as synchronizations.

Application users are assigned roles to determine how they access the system.



Primavera Gateway Vocabulary

■ Providers

Providers define how Gateway interacts with the data and applications it integrates.

Providers, either out of the box, or custom tailored are required to allow the flow of data from one application to another



Primavera Gateway Vocabulary

■ Data Flow

Data Flows define the type of data and direction that data will be integrated. Two general types of data can be moved, project data and master data. The data can be moved into, out of, or within Primavera applications.

Load, Convert, Compare, Review, Update



Primavera Gateway Vocabulary

■ Steps

Steps are the building blocks that define Data Flows. They are actions that Gateway performs to take data from one system, transform that data, compare, and persist data.

In addition to the out of the box Steps, they can be specified to perform custom functions on data.



Primavera Gateway Vocabulary

■ Deployment

A deployment specifies the connection information for Unifier to connect with a particular application. There will be at least one deployment for each application, though often there will be a Gateway deployment defined for each environment for the applications that will be integrated with Gateway.



Primavera Gateway Vocabulary

■ Synchronization

Synchronizations are specific integration jobs. They are specified to run particular Data Flows between two deployments.



Architecture

How Gateway supports itself

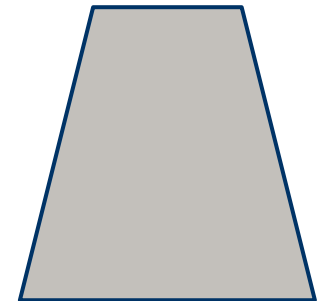
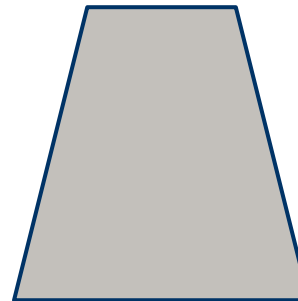
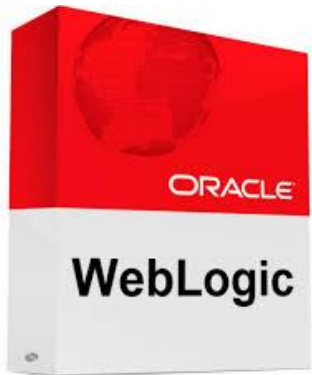


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Architecture

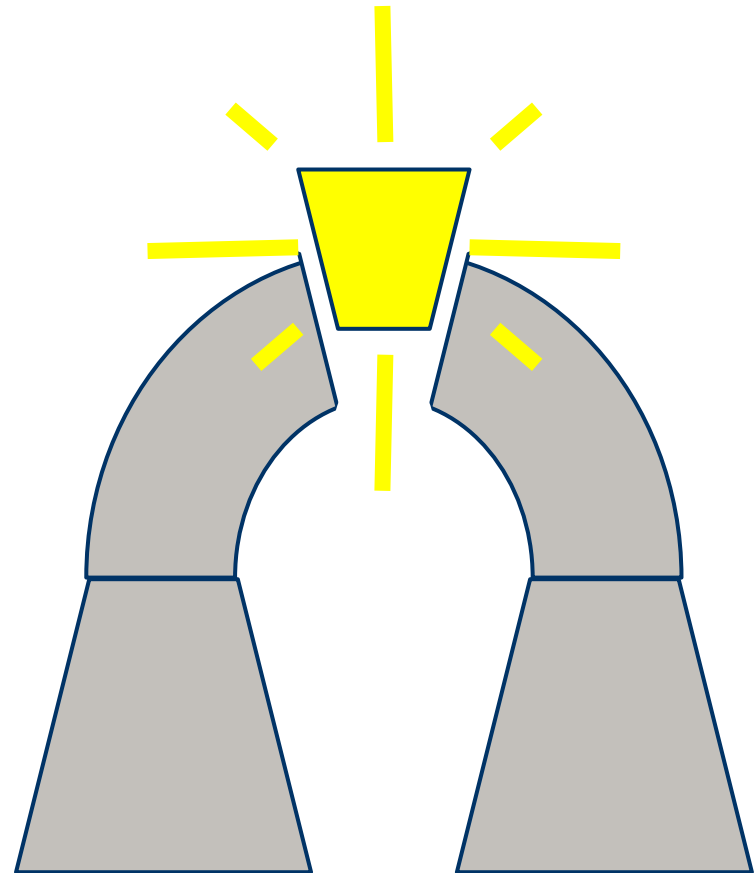
- Foundation



Architecture

■ Functional Components

- Database
- Providers
- Data Flow
- RESTful APIs



Architecture

Database

- **Cross Reference Data for the various Providers that have been defined on a Gateway instance**
- **Enumerable Field definitions**
- **Variety of Metadata defining / supporting Providers**
- **Synchronization Job information**
 - **Logs**
 - **Schedules**
 - **History**



Architecture

Providers

- Components
 - Data Flow
- Out of the Box
- Functions and Customization Hooks



Architecture

Providers

■ Components

- **Description XML Files**
- **Data definition**
- **Provider description**
- **Cross reference definition**
- **Field mapping template definition**
- **Data Flow definition template**
- **Data Flow**
- **Data value mapping (DVM) definition file - Enum Field definition**
- **Eventing definition file**



Architecture

Data Flow

- **Project Data (with Compare)**
 - load from source
 - convert source data to Gateway
 - load from destination
 - convert destination data to Gateway
 - compare
 - convert from Gateway to destination
 - update destination
- **Master Data Data Steps**
 - load
 - convert to Gateway
 - convert from Gateway
 - update destination



Architecture

Providers

- Out of the Box
 - P6 provider
 - Prime provider
 - EnterpriseTrack provider
 - Unifier provider
 - Sample provider



Architecture

Providers

- **Functions / Customization Hooks**
 - **Define which fields are mapped to Gateway**
 - OOTB 1:1 mappings
 - Java & Groovy advanced mappings
 - **Define how fields are mapped to Gateway**
 - **Define Data Flows**
 - **Define Flow parameters**
 - Custom code hook
 - **Define non-Standard flow steps**
 - Custom code hook



Architecture

■ RESTful APIs

- **Allows visibility into many aspects of the Gateway Architecture**
- **Allows some configuration of application**
 - Scheduling
 - Data Flows
 - ...



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Oracle Primavera Special Interest Group

OPSIG is the home for Primavera Users

- Our purpose is to inform and educate our members on current and future functionality of Oracle Primavera products, while offering a forum for peers to share their experience and knowledge in the use of Primavera.
 - Educational opportunities across the Primavera product suite
 - Online Learning Series August 17th – September 4th
 - Call for presentation opening April 27th
 - Monthly Community Calls
 - 3rd Thursday of the month at 1:00 pm ET
 - Networking with other users within the Primavera community
 - Partnering with Oracle Primavera to meet the needs of our diverse membership.
- Membership is open to anyone with an interest in the Oracle Primavera products, with no dues for membership. All members can vote on matters brought before the OPSIG. Membership requests may be reviewed by the OPSIG board.



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 - This is a secondary sub-bullet of text (and should be as far sub-bullets indent)
 - This tertiary sub-bullet will be seldom used, but available
 - This is another sub-bullet of text
- And this is the third bullet of text



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Subject number one

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Subject number two

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 - This is a sub-bullet of text
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 - This is another sub-bullet of text
- And this is another bullet of text



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