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Virtual Developer Day: Oracle Fusion Development

Watch technical presentations, demos, and participate in a hands-on lab. Join live Q&A chats online with Oracle technical staff.

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Oracle BI and ADF Integration

Rashmi Raj, Product Manager

Safe Harbor Statement

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Agenda

- Oracle Business Intelligence
- Oracle Business Intelligence and ADF Integration
 - Fusion BI View Component
 - Programmatic VO against BI Server
- Oracle BI Composer
- WebCenter Spaces Integration (Collaborative Analytics)
- Demo

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Oracle Business Intelligence

Overview

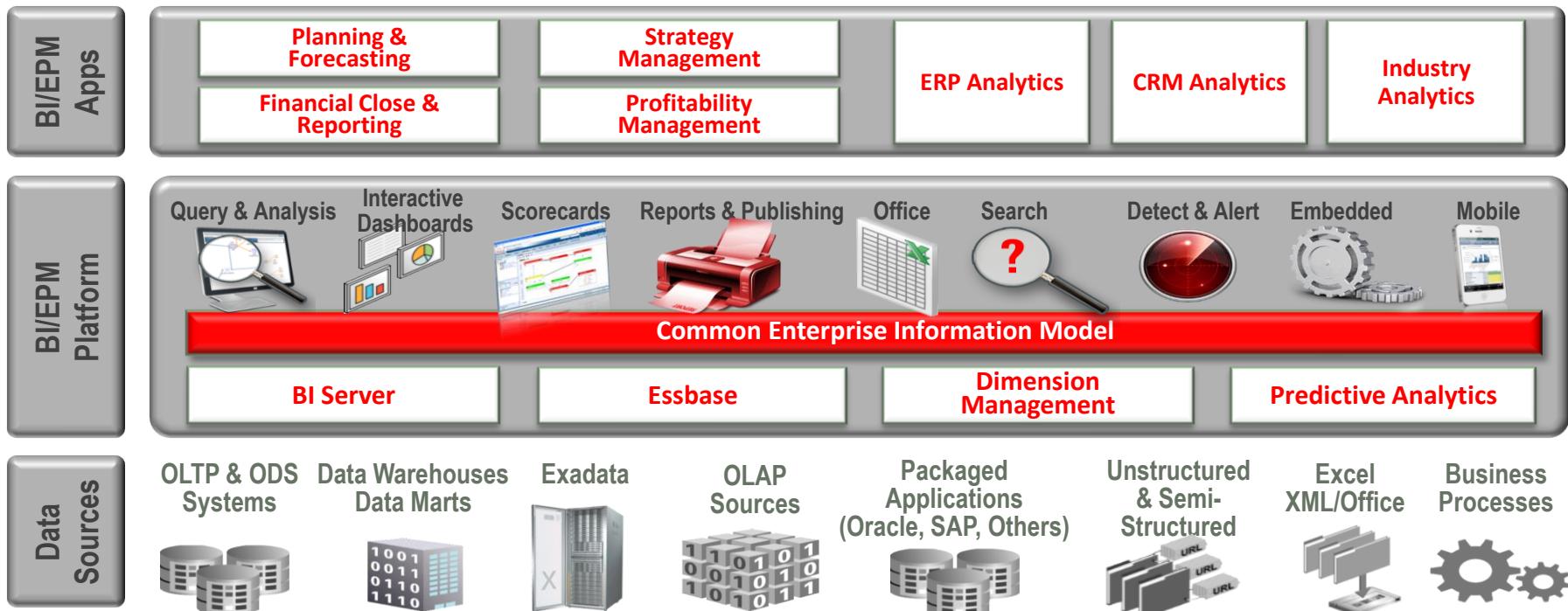
- Comprehensive BI functionality built on a unified infrastructure
- Powerful user experience
- Unified business model
- Hot-Pluggable
- Best-in-class scalability, reliability and performance



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Oracle BI / EPM Portfolio

Complete, Integrated, and Open



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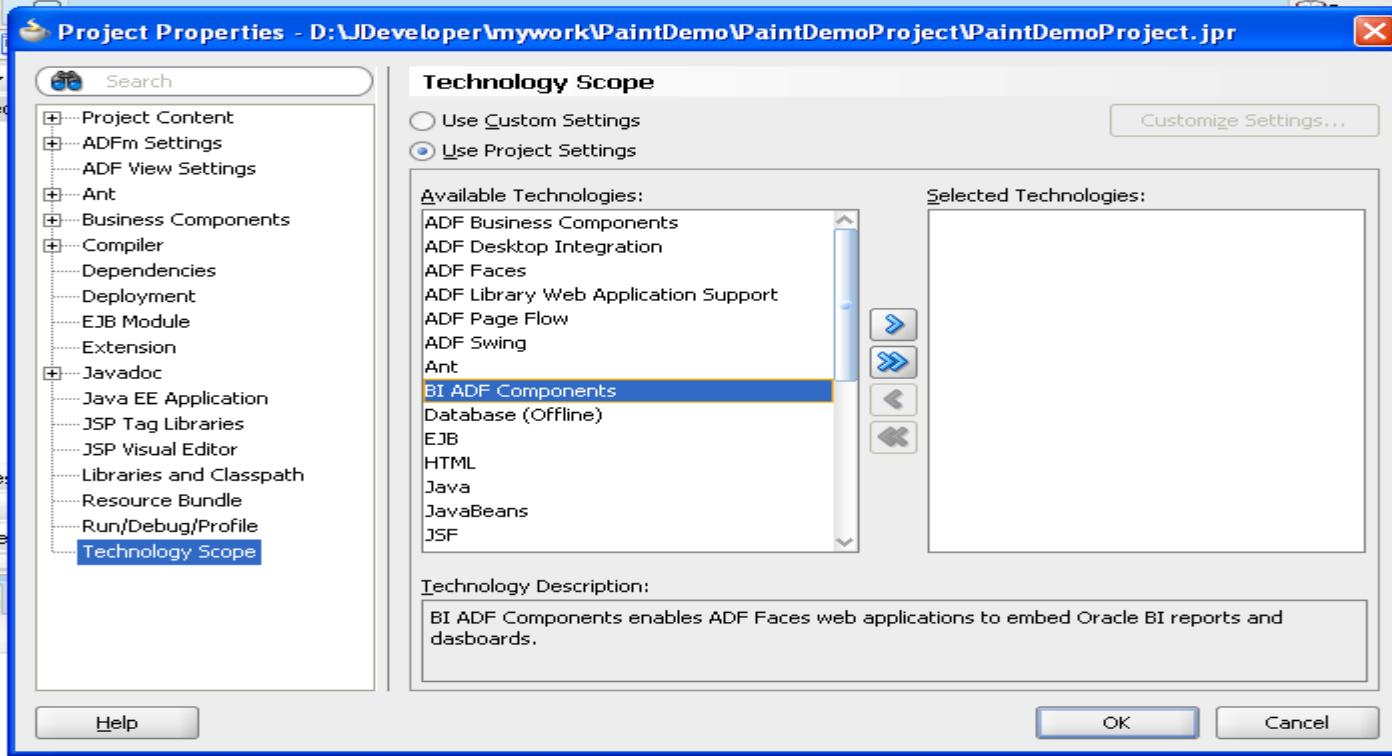
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Oracle BI And ADF Integration

Fusion BI View Component

- Browse Oracle BI Catalog and drag and drop reports, views, dashboards onto ADF page
- Pass context to the embedded components from ADF page
- Raise contextual events from embedded content to the ADF app
- Personalize content via drills, sorts, pivots etc. (saved to MDS)
- Skin embedded content using ADF skins
- Pass JPS user identity and APPLCORE session context to BI EE





PaintDashboard.jspx

```

<?xml version='1.0' encoding='windows-1252'?>
<jsp:root xmlns:jsp="http://java.sun.com/JSP/Page" version="2.0"
           xmlns:f="http://java.sun.com/jsf/core"
           xmlns:h="http://java.sun.com/jsf/html"
           xmlns:af="http://xmlns.oracle.com/adf/faces/rich"
           xmlns:adfbi="http://xmlns.oracle.com/adf/bi/report">
  <jsp:directive.page contentType="text/html;charset=windows-1252"/>
  <f:view>
    <af:document>
      <f:facet name="metaContainer">
        <adfbi:head value="#{bindings.biExecBinding3}" />
      </f:facet>
      <af:messages/>
      <af:form>
        <adfbi:content id="content1" width="1024px" height="768px"
                      value="#{bindings.biExecBinding1}" />
        <adfbi:content id="content2" value="#{bindings.biExecBinding3}" />
      </af:form>
    </af:document>
  
```

jsp:root > f:view > af:document > af:form > adfbi:content#content2 >

Design Source Bindings History

Running: Embedded OC4J Server - Log

Property Inspector

Pending Changes

```

Target URL -- http://127.0.0.1:8988/PaintDemo-PaintDemoProject-context-root/faces/PaintDashboard.jspx
08/04/07 15:44:23 Oracle Containers for J2EE 10g (11.1.1.0.0) initialized
Apr 7, 2008 3:44:32 PM com.sun.faces.config.ConfigureListener contextInitialized
INFO: Initializing JavaServer Faces implementation (1.2_04-b10-p01) for context '/PaintDemo-PaintDemoProject-context-root'
Apr 7, 2008 3:44:35 PM com.sun.faces.spi.InjectionProviderFactory createInstance
INFO: jsf.core.injection.provider_generic_web_configured

```

Messages

Extensions

Running: Embedded OC4J Server

BI Embedded in Procurement App

File Edit View Insert Tools Window Help

Personal Fusion Others Minutes IP status My Reviews Change Requests RMS Files: MPPs Files: SSP Aria Bug TOI Apps Tarantella

Search All Saved Searches Back

ORACLE Navigator Favorites My Worklist

You are logged in as Terry Lucca

Preferences Help Logout

Tasks Purchasing News

This is where the Purchasing News content.

This demo is brought to you by Sonal Hede, Sudhir Subramanian, David Chan, ...

Requisition History

Supplier Name

Requisition Amount

Supplier	2006 Q1	2007 Q2
Sun	20000	30000
BM	40000	50000
HP	60000	80000

Quality Performance

Item Name

% Accepted

Item Name	2004 Q2	2005 Q3	2006 Q1	2007 Q2
Bladecenter	70	100	100	95
Proliant DL	80	75	100	85
Sparc T55520	100	80	65	95

On Time Performance

Supplier Name

Arrived on Time

Supplier	2006 Q1	2007 Q2
HP	100	60
BM	100	100
Sun	100	70

Requisition to Receipt Cycle Time

Cost Center Avg Requisition Processing Time (days)

Days

Cost Center	Avg Requisition Processing Time (days)
HP	10.5

Recently Added Lines

Sony Laptop 1,499.99 USD

Total 1,499.99 USD

Edit

Requisition

Your requisition contains 1 line.

Quick Links

Shopping Lists Requisition Entry Form Non-Catalog Request

Shopping Preference

Requisitioning Vision Operations Requester Joe Smith Deliver-To Location

Edit

Embedded BI in Fusion Applications

ORACLE Fusion Applications

Navigator Recent Items Favorites Watchlist

Home Personalize Configure Help Logout Leslie Han

Welcome General Accounting Manager Resources My Information Compensation Close Process

Overview Pay for Performance Trends

Year Quarter Month Go

Average Annual Compensation by Geography

Employee Location Region	Average Variable Compensation	Average Base Compensation
Central	124,000.0	165,000.0
Mountain	21,678.0	400,270.0

Overtime Expense Analysis

EEO Job Category	Active Headcount	Average Base Compensation	Overtime Compensation	Overtime Expense Percentage
Laborers	4,267	\$194,230	26,200.0	102.0%

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Embedded BI in Fusion Applications

Embedded Analytics in Transactional Pages

Hiring

Applicants Ready to Hire Ready for Onboarding Onboarding Progress

Actions View Format

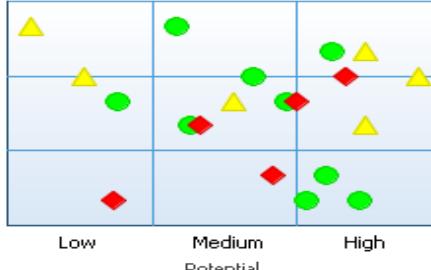
Work Start Date	Name	Type of Hire	Department	Hiring Manager	Job	Submitted By
15-Feb-2008	John Wolfmaier	Employee	Sales	Roy Narayan	Pre-Sales Consultant	Brenda Barnes
15-Feb-2008	George Hong	Contingent Worker	Development	Amit Stickley	Software Engineer 1	Karl Chlang
29-Feb-2008	Jenny Smith	Employee	Finance	Yushi Remington	Expenses Clerk	Brenda Barnes

Compare Performance Show Table

Workforce All Reports Directs Only

Rating Model Rating Model A

Measure Potential



Performance Rating

High

Mid

Low

Potential

Low Medium High

Workforce Trend Show Table



Year	Gains	Losses	Headcount
2005	10	25	380
2006	5	35	360
2007	45	5	450
2008	65	100	480

Gains / Losses

Headcount

2005 2006 2007 2008

Gains Losses Headcount

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Oracle BI And ADF Integration

Logical SQL View Object

- Ability to make direct database connection (JDBC) with Oracle BI Server
- Issue Logical SQL against BI Server
- Display results in ADF rich/faces component
- Embed BI data inline into transactional view
- Passes JPS User identity and Applcore session id to BI Server

Fusion BI Logical SQL View Object

The screenshot illustrates the process of creating a Logical SQL View Object in the Oracle BI Development Environment. It consists of three main windows:

- Create Database Connection:** A dialog box where a new database connection is being configured. The connection is named "Connection1", of type "BI (JDBC)", and is set to "administrator" with a masked password. The "BI (JDBC) Settings" section shows the host as "localhost" and port as "9703". A red box highlights the "localhost" entry.
- Create View Object - Step 3 of 7:** A wizard step titled "Logical SQL". It shows a sidebar with options: Name, Connection, Logical SQL (which is selected and highlighted with a red box), Bind Variables, Java, Application Module, and Summary. The main area contains a "Logical SQL Statement" text box with the query: "select markets.region from paint".
- Application Navigator:** A tree view of the application structure. The "BIVOProject" project contains "Application Sources" (with "bivoproject" and "ViewObj" selected, both highlighted with red boxes), "Web Content" (with "WEB-INF" and "Faces-config.xml" selected), and "Page Flows" (with "untitled1.jspx" selected).
- Application Resources:** A tree view of data controls. The "AppModuleDataControl" contains a "ViewObj1" object, which is also highlighted with a red box. Under "ViewObj1", there are "Region", "Units", and "Operations" nodes, with "Operations" being the selected item.

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Oracle BI Composer

Wizard based report creation

- Simple-to-use, checkbox-driven wizard tool for Answers Report creation and customization
 - Remove all navigational complexity from interface
 - Allow non technical users to create and edit reports with no training.
- Simplified UI built in ADF leveraging BI metadata APIs
 - Libraries available in JDeveloper and Web Center
- Default content creation and editing when using Accessibility mode in Answers

BI Composer Functionality

Wizard based report creation

- Ability to create tables, pivots and charts
- Add prompts and filters
- Modify formatting with sections, grouping and conditional formatting
- Ability to preview report while creating
- Save report into the BI Web Catalog for sharing and reuse

BI Composer

BI Composer

Select Columns Select Views Edit Table Edit Graph Sort and Filter **Highlight** Save

Back Next Submit Cancel

Create Analysis: Highlight

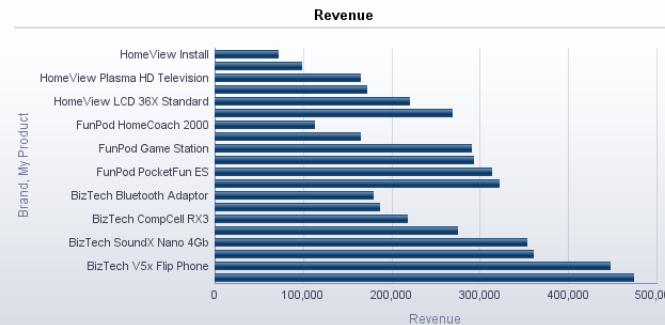
Apply conditional formatting highlights to table

Formatting Indicates Incomplete Format (not applied to report)

Status Column	Threshold	Color	Action
Revenue	150,000	■	
	180,000	■	■

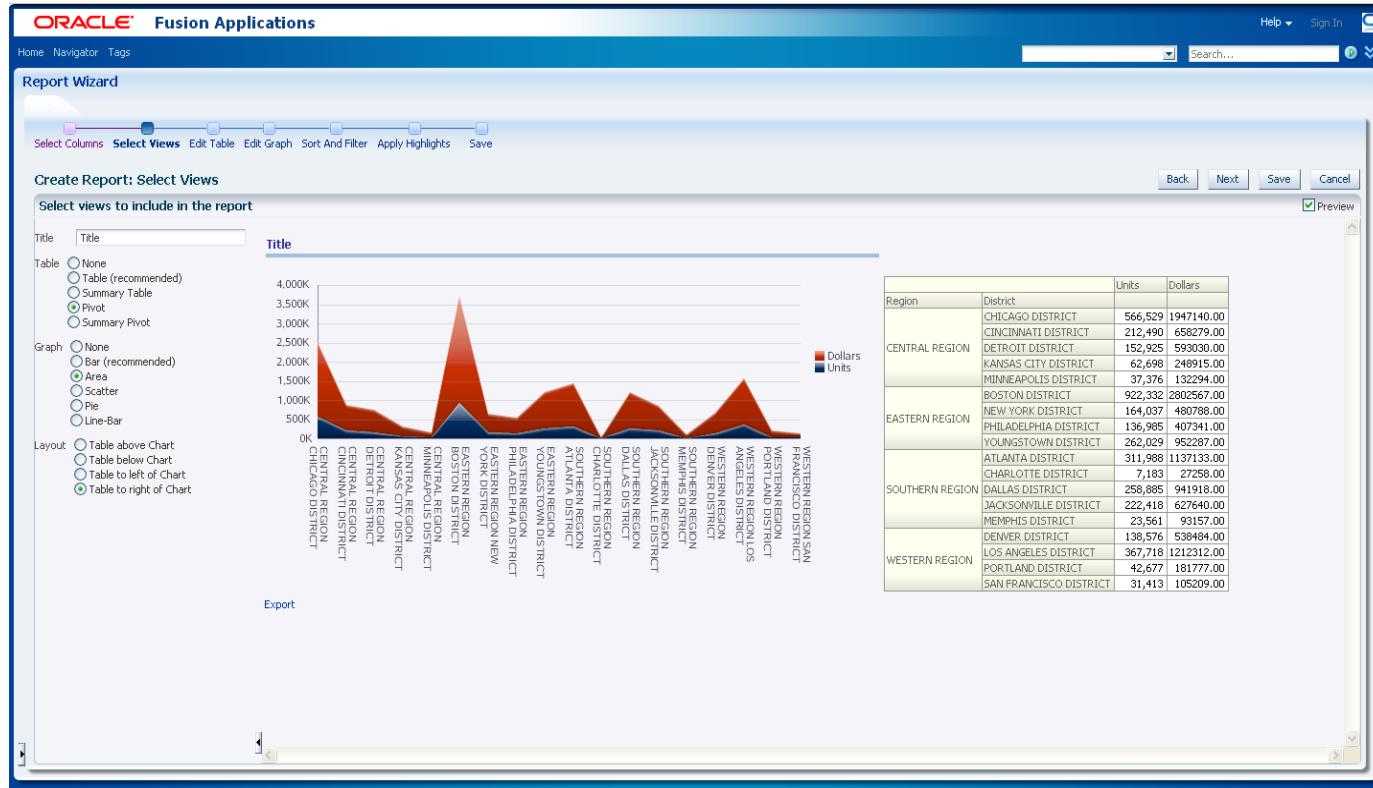
Add Column Format +

Preview (1)



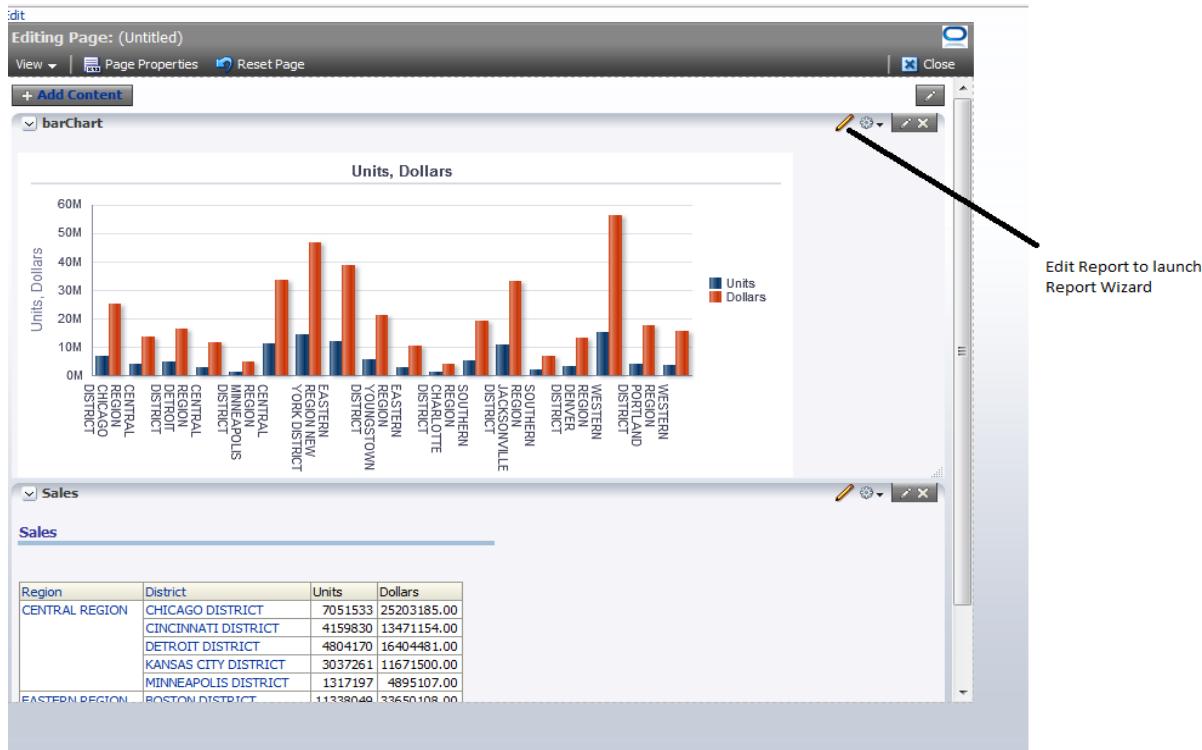
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BI Composer



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BI Composer



[Edit Report to launch Report Wizard](#)

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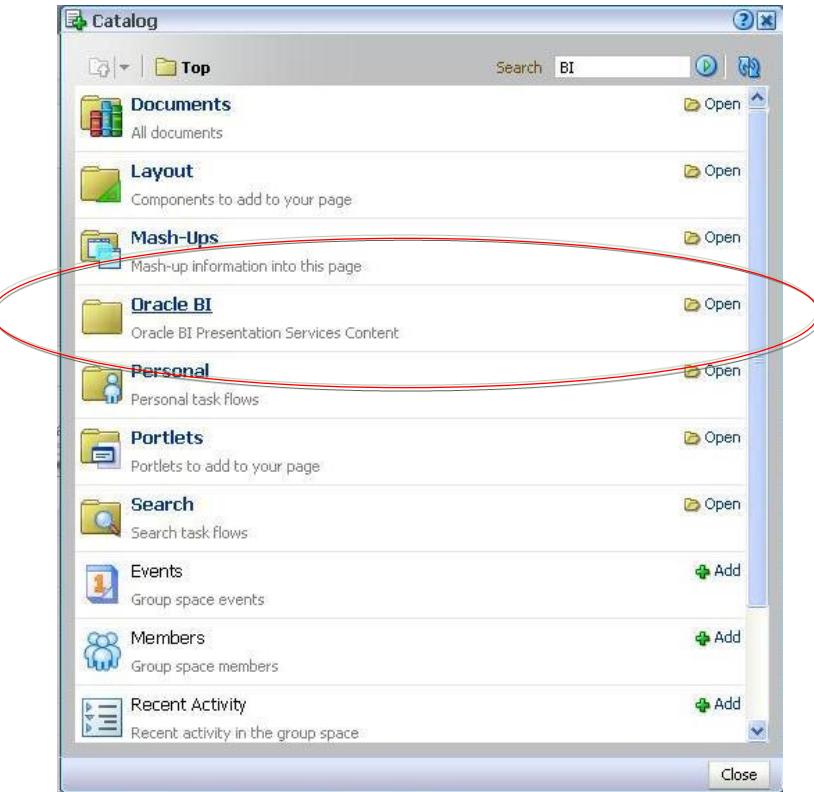
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Oracle BI and WebCenter Integration

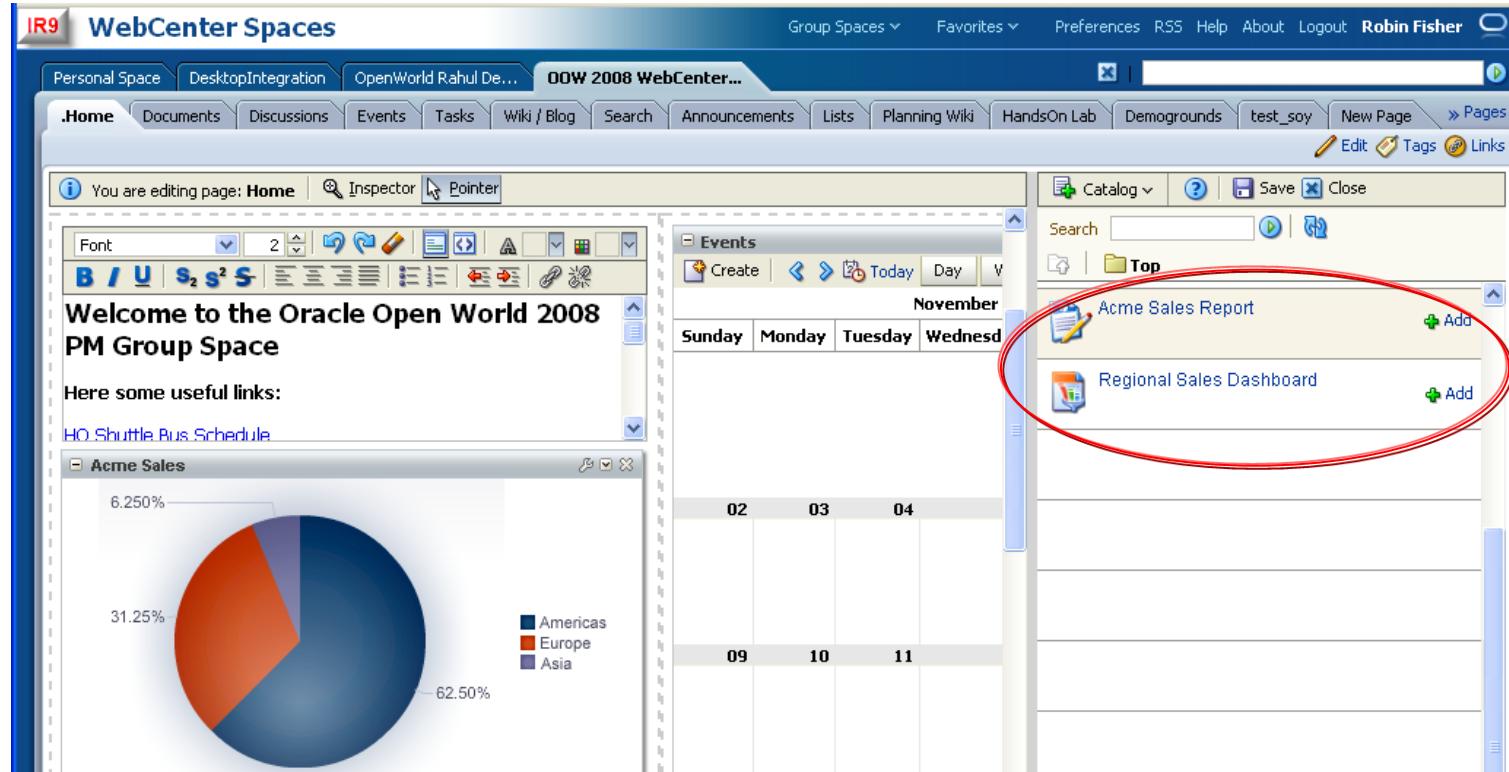
Run-time Integration

- Provide Oracle BI plug-in for WebCenter catalog
- Support run-time edit
- Support context passing
- Skinning and Personalization (MDS)
- Enable Oracle BI to participate in WebCenter collaborative features
- Tagging
- Linking
- Search
- Discussion Forums



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Oracle BI and WebCenter Integration



IR9 WebCenter Spaces

Group Spaces ▾ Favorites ▾ Preferences RSS Help About Logout Robin Fisher

Personal Space Desktop Integration OpenWorld Rahul De... OOW 2008 WebCenter...

.Home Documents Discussions Events Tasks Wiki / Blog Search Announcements Lists Planning Wiki HandsOn Lab Demogrounds test_soy New Page » Pages

Edit Tags Links

You are editing page: Home Inspector Pointer

Font ***s²*** ***S***

Welcome to the Oracle Open World 2008 PM Group Space

Here some useful links:

HO Shuttle Bus Schedule

Acme Sales

6.250%
31.25%
62.50%

Americas
Europe
Asia

Events

Create Today Day V

November

Sunday Monday Tuesday Wednesday

02 03 04

09 10 11

Catalog

Search

Top

Acme Sales Report

Regional Sales Dashboard

Add

A red oval highlights the catalog area on the right side of the interface.

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Thank you and enjoy the rest of the sessions

For more information on Oracle BI please visit

<http://www.oracle.com/us/solutions/business-analytics/business-intelligence/index.html>

Please join us a the following social media channels



<https://twitter.com/#!/OracleAnalytics>



<https://www.facebook.com/OracleEPMBI>



<http://www.oracle.com/us/solutions/business-analytics/business-intelligence/index.html>



<http://www.youtube.com/EvolvingBI>

