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## **Oracle WebCenter Product Overview**

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Fusion Middleware Consultant

# Oracle Fusion Middleware



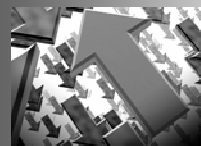
## User Interaction

Portals, Content, Search,  
Desktop, Mobile, VoIP



## Business Intelligence

ETL, Q&A, OLAP, Reports,  
Alerts, Real Time



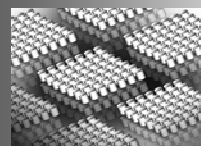
## Integration & Process Management

Messaging, ESB, BPM, B2B, BAM, MDM



## Application Server

J2EE, WS-\*, Events, Rules



## Grid Infrastructure

Clusters, Metadata, Registry, Security



## Systems Management

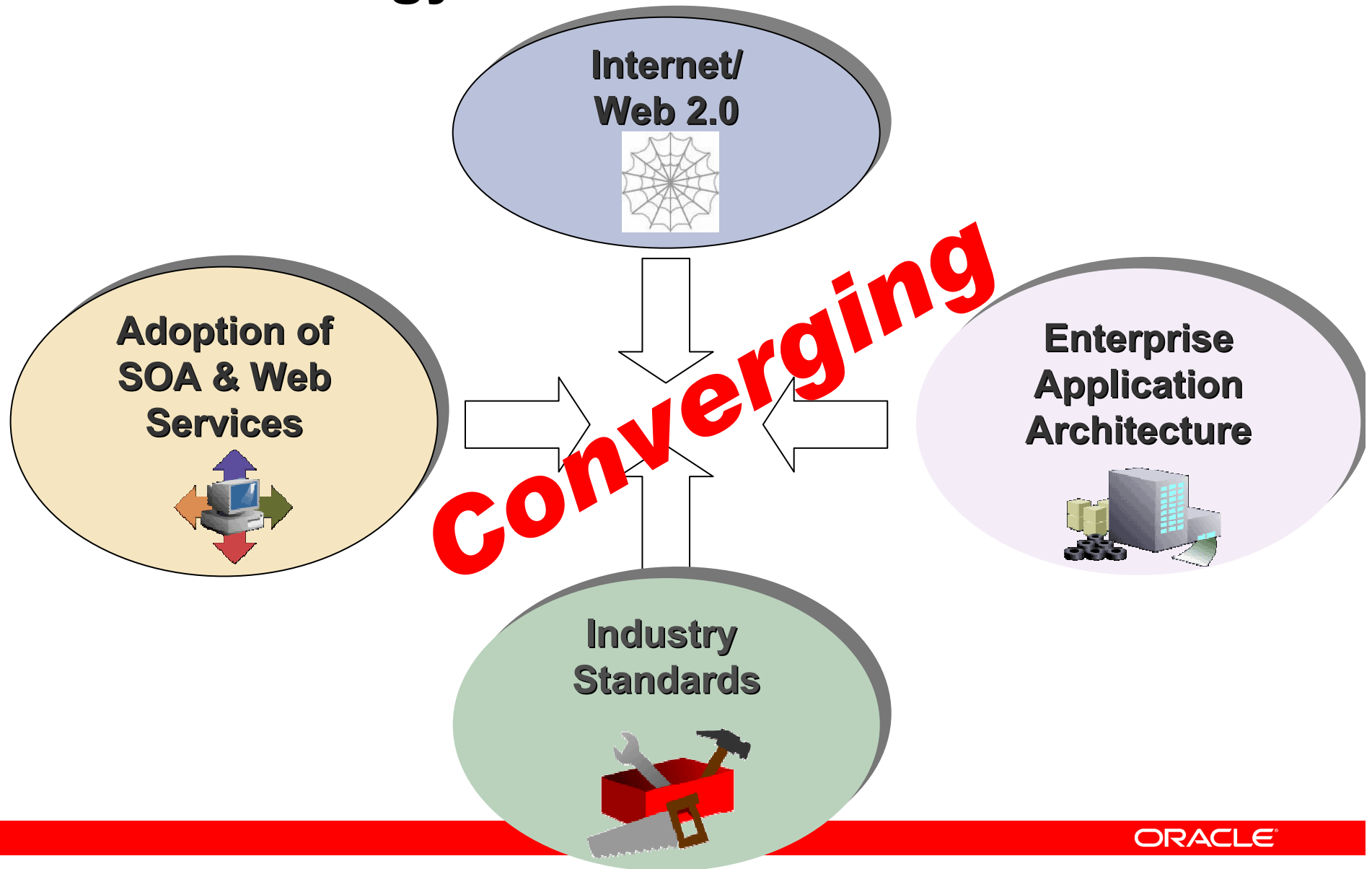
System Application  
Services



## Identity Management

Directory Provisioning, Single  
Sign-On, Identity Administration

# Technology Trends - User Interaction





# Oracle's User Interaction Strategy

- Framework
  - Deliver a brand-new platform for emerging user interaction requirements
  - Continue to evolve and extend Oracle Portal
  - Provide inter-framework integration for side-by-side deployment
- Services
  - Introduce new enterprise-ready Web 2.0 Services
  - Fully service-enable existing products and components
  - Incorporate out-of-the-box integration points for easy consumption



# **Product Overview: Oracle WebCenter Suite**

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# Oracle WebCenter Suite

*The Next Generation of User Interaction*



## User Interaction

Portals, Content, Search,  
Desktop, Mobile, VoIP

- A new platform for user interaction
- Combines the best of:
  - Portals (portlets, customization)
  - Rich client development frameworks
  - Web 2.0 Collaborative & Content Services
- SOA enabled, hot-pluggable
- Supports the latest Java UI standards: JSF, JSR-227, JSR-168, JCR 1.0
- Foundation for Fusion Applications



## Systems Management

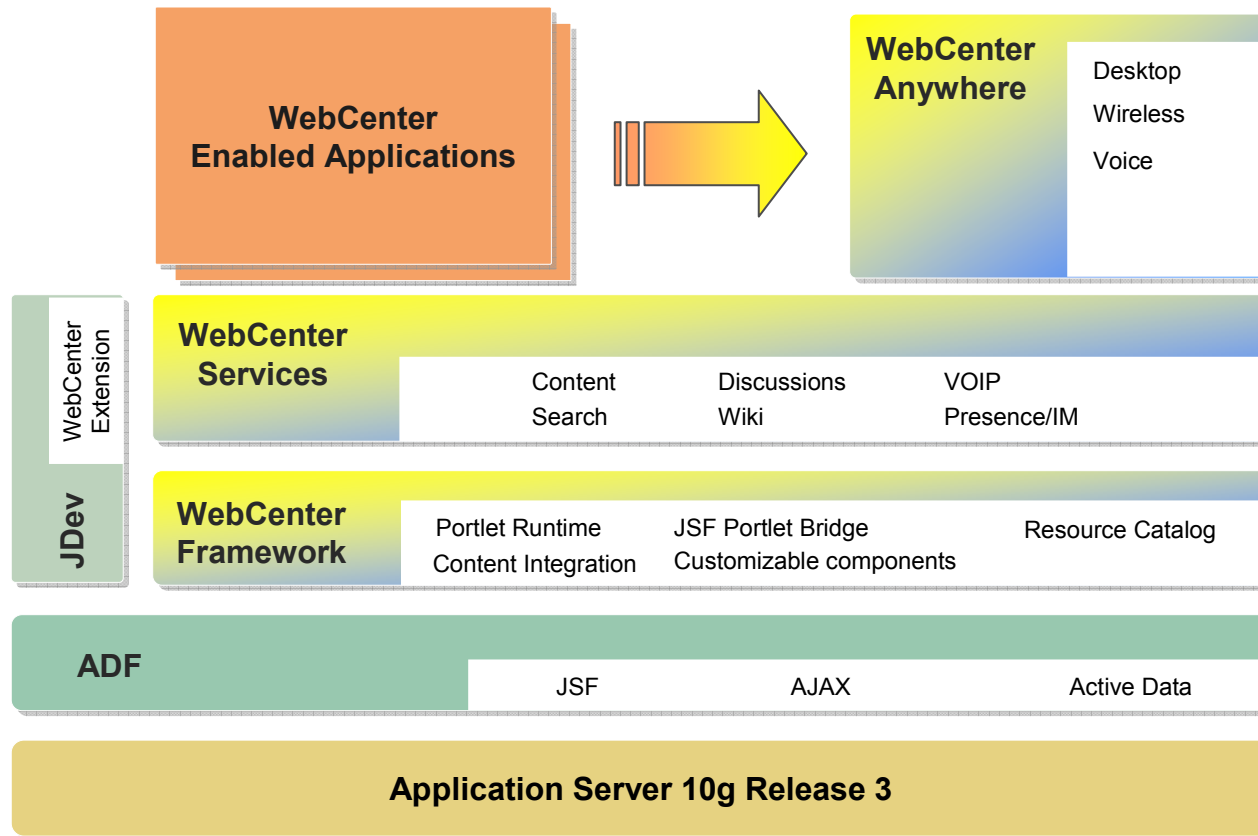
System Application  
Services



## Identity Management

Directory Provisioning, Single  
Sign-On, Identity Administration

# Oracle WebCenter Suite 10g Release 3





# WebCenter Framework

- Use JDeveloper to build context-rich, customizable applications
  - Embed portlets in your Faces applications
    - Supports both JSR168/WSRP 2.0 and Oracle PDK-Java & PL/SQL
  - Embed customizable components
    - Enable runtime customization for all types of JSF view components
  - Embed runtime publishing components
    - Allow business users to publish content directly to application pages
    - Rich Text and Web Clipping Portlets, OmniPortlet
  - Expose JSF applications as portlets
    - Make any Faces application available to remote WebCenter applications
  - Secure your applications using declarative tools
  - Integrate content in context of transaction flows
    - Integrate content repositories using the JCR 1.0 standard
    - Content adapters: ContentDB, Oracle Portal, Documentum, Sharepoint, Lotus Domino
- Supports key standards
  - WSRP 1.0, WSRP 2.0, JSR 168, JSR-170/JCR 1.0
  - BPEL, JSR-227, JSR-116, JAAS, WS Security



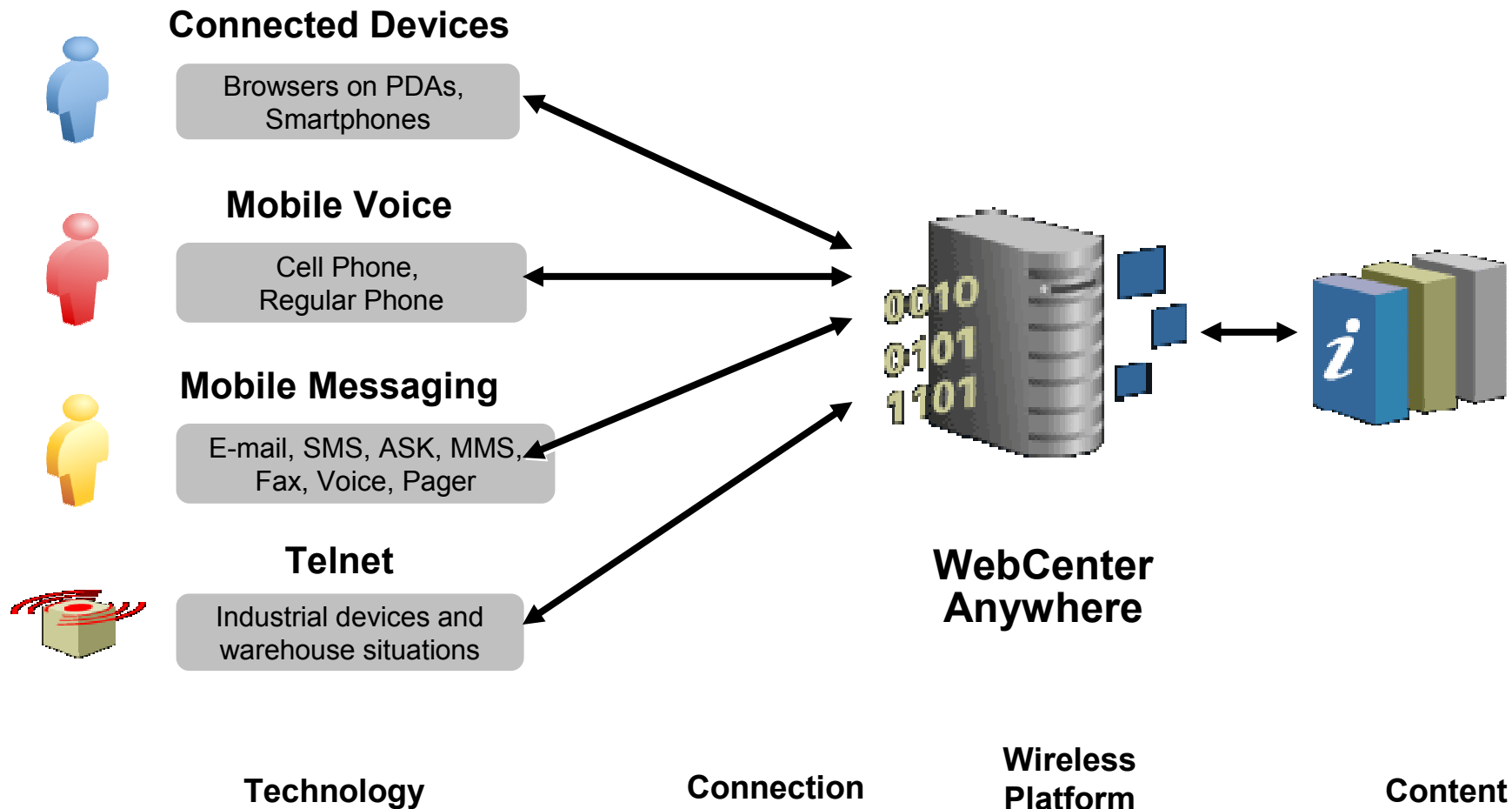


# WebCenter Services

- Embed Web 2.0 style communication and collaboration services directly into JSF applications
- Services include:
  - Content/Document Management
    - Oracle Content DB: enterprise-grade document management solution
  - Enterprise Search
    - Oracle Secure Enterprise Search: search and access secure content from a variety of repositories across the enterprise
  - Instant Messaging and Presence (HotSip)
    - Real-time interaction via chat, on-line availability and communication
    - Click 2 Dial available as separately priced option
  - Discussion forum (OEM from JiveSoft)
    - Collaborative, on-line discussion forums, threads and responses
  - Wiki (OEM from YAWiki)
    - self-service, community oriented content publishing and sharing



# WebCenter Anywhere



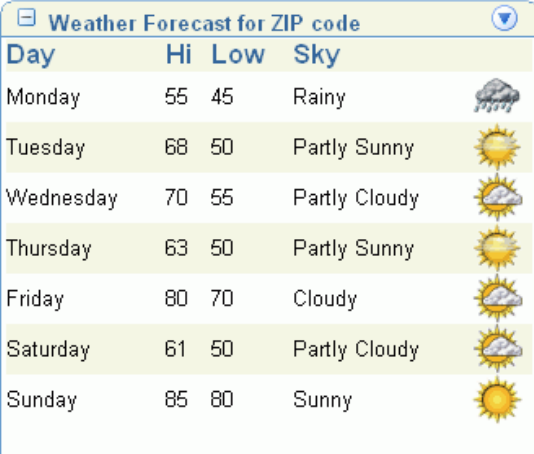


# Details - WebCenter Framework

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# Portlets – Overview

- Portlets: reusable Web components providing personalization and customization capabilities
- Portlet technologies:
  - Standards-based portlets (JSR 168)
  - Oracle PDK-Java portlets
  - PL/SQL portlets (Portal 10g – local portlets)



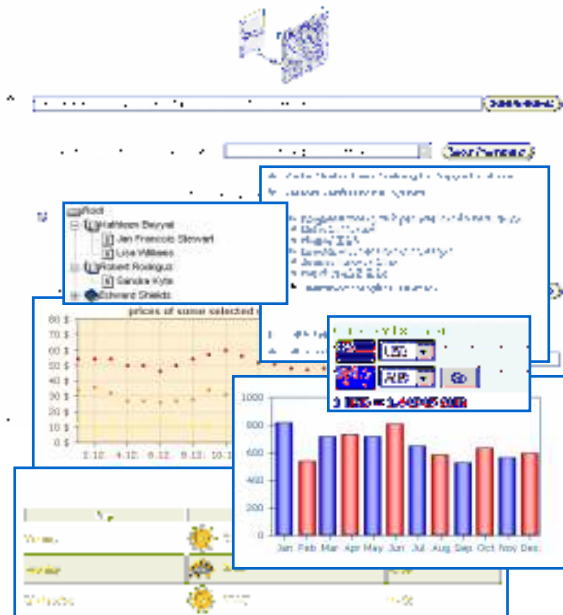
Day	Hi	Low	Sky
Monday	55	45	Rainy
Tuesday	68	50	Partly Sunny
Wednesday	70	55	Partly Cloudy
Thursday	63	50	Partly Sunny
Friday	80	70	Cloudy
Saturday	61	50	Partly Cloudy
Sunday	85	80	Sunny

# Out-of-the-box Portlets

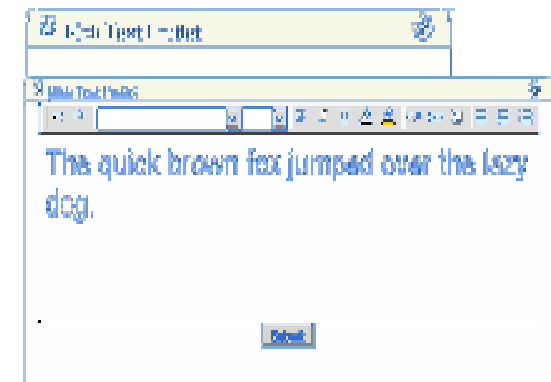
## Web Clipping



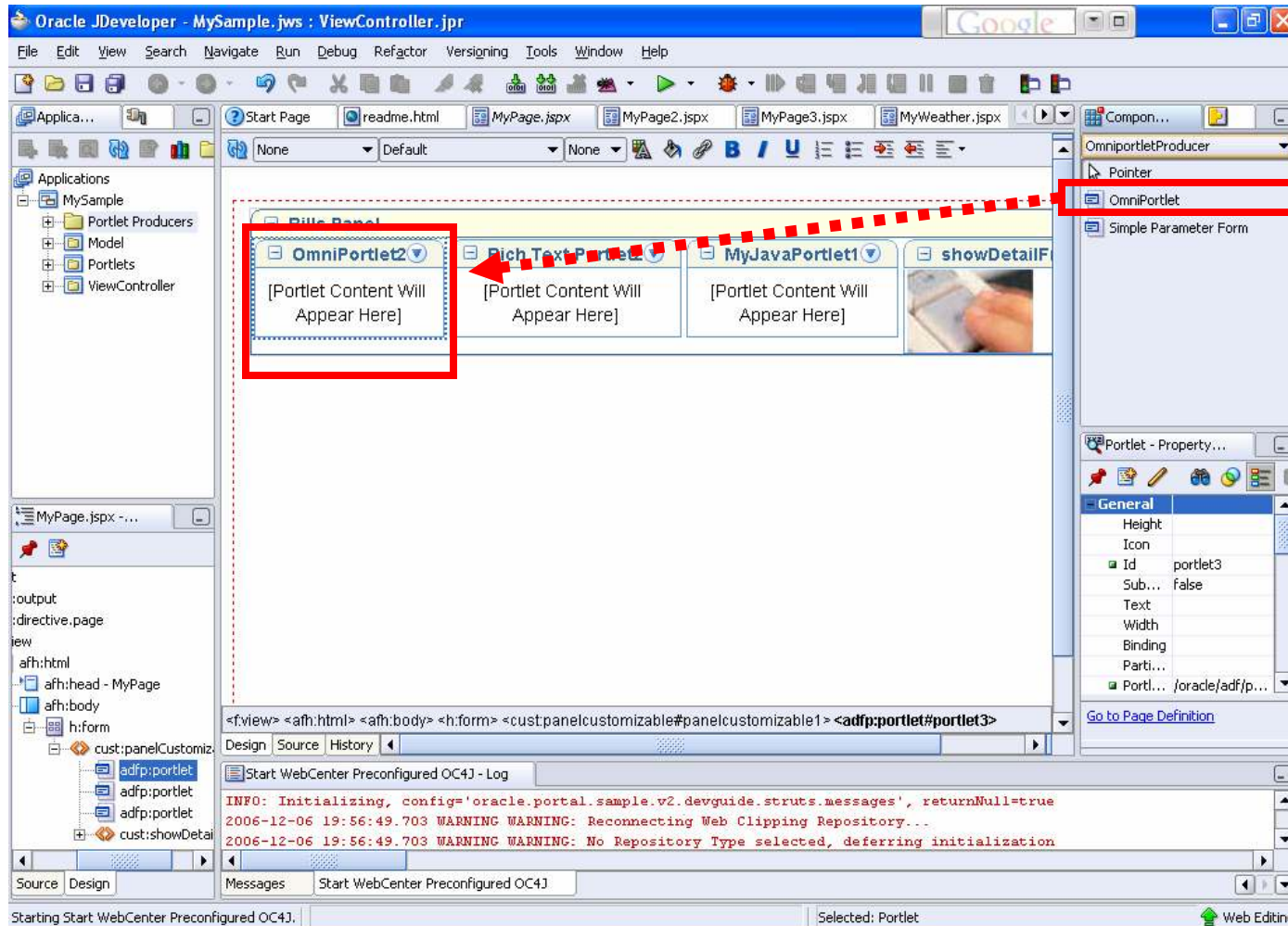
## OmniPortlet



## Rich Text Portlet

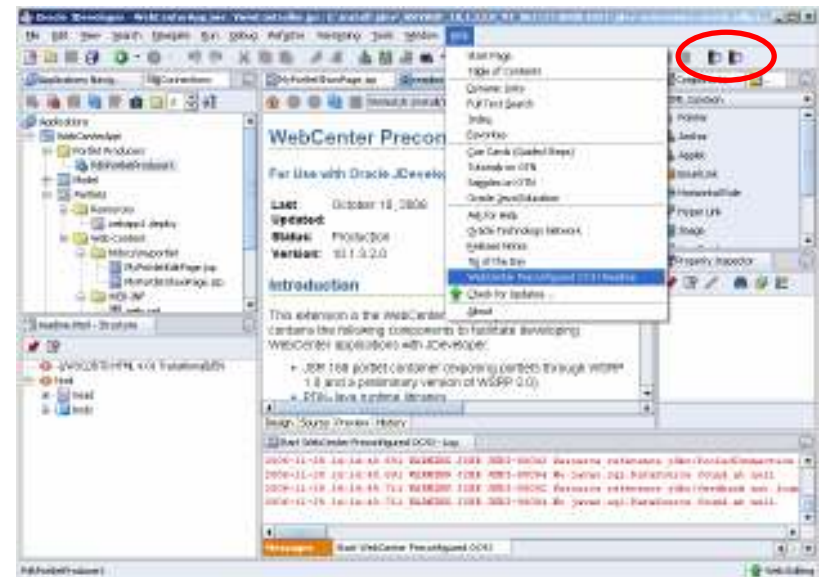
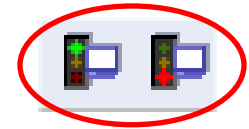


# Drag/drop Portlets within a JSF Page

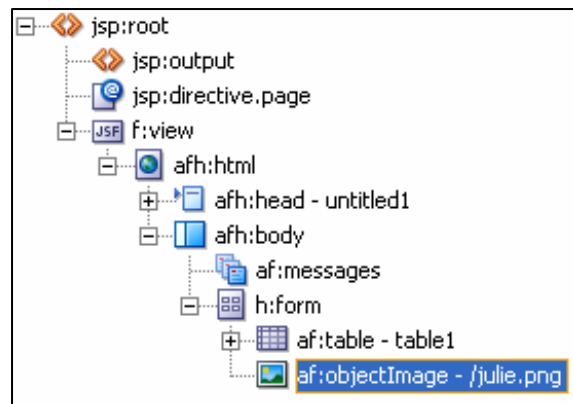


# JDev 10.1.3.2 Preconfigured OC4J

- Installed with JDeveloper 10.1.3.2
- Managed from within JDeveloper
- A stand-alone OC4J dedicated to portlets and WebCenter applications, containing:
  - Portlet container
    - JSR 168 / WSRP
    - PDK-Java
  - Portal tools
    - OmniPortlet
    - Web Clipping
    - Rich Text Portlet
  - Sample portlets




# Customizable Components



**Select and**

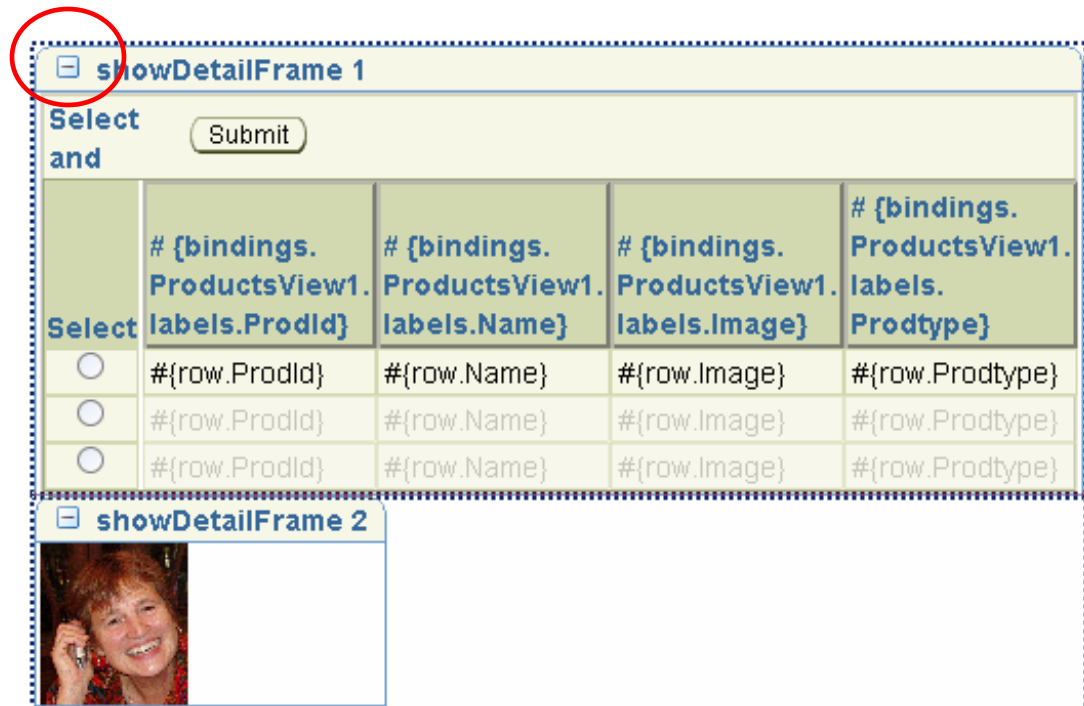
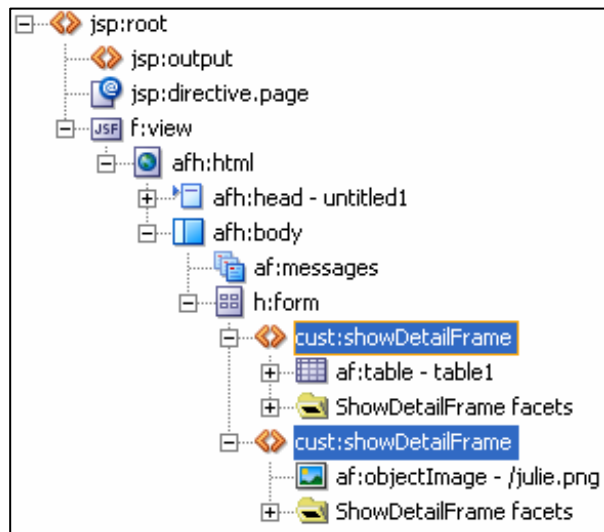
	<code># {bindings. ProductsView1. labels.ProdId}</code>	<code># {bindings. ProductsView1. labels.Name}</code>	<code># {bindings. ProductsView1. labels.Image}</code>	<code># {bindings. ProductsView1. labels.Prodtype}</code>
Select <input type="radio"/>	<code># {row.ProdId}</code>	<code># {row.Name}</code>	<code># {row.Image}</code>	<code># {row.Prodtype}</code>
<input type="radio"/>	<code># {row.ProdId}</code>	<code># {row.Name}</code>	<code># {row.Image}</code>	<code># {row.Prodtype}</code>
<input type="radio"/>	<code># {row.ProdId}</code>	<code># {row.Name}</code>	<code># {row.Image}</code>	<code># {row.Prodtype}</code>



`h:form`



# ShowDetailFrame



The form preview shows two sections. The first section, 'showDetailFrame 1', is circled in red. It contains a 'Select and' label, a 'Submit' button, and a table with three rows. The table has five columns: 'Select', '# {bindings. ProductView1. labels.ProdId}', '# {bindings. ProductView1. labels.Name}', '# {bindings. ProductView1. labels.Image}', and '# {bindings. ProductView1. labels.Prodtype}'. The second section, 'showDetailFrame 2', contains a small image of a woman and a large empty text area.

Select	# {bindings. ProductView1. labels.ProdId}	# {bindings. ProductView1. labels.Name}	# {bindings. ProductView1. labels.Image}	# {bindings. ProductView1. labels.Prodtype}
<input type="radio"/>	{row.ProdId}	{row.Name}	{row.Image}	{row.Prodtype}
<input type="radio"/>	{row.ProdId}	{row.Name}	{row.Image}	{row.Prodtype}
<input type="radio"/>	{row.ProdId}	{row.Name}	{row.Image}	{row.Prodtype}

# PanelCustomizable

showDetailFrame 1

Select and

Select	<code># {bindings. ProductsView1. labels.ProdId}</code>	<code># {bindings. ProductsView1. labels.Name}</code>	<code># {bindings. ProductsView1. labels.Image}</code>	<code># {bindings. ProductsView1. labels.Prodtype}</code>
<input type="radio"/>	<code># {row.ProdId}</code>	<code># {row.Name}</code>	<code># {row.Image}</code>	<code># {row.Prodtype}</code>
<input type="radio"/>	<code># {row.ProdId}</code>	<code># {row.Name}</code>	<code># {row.Image}</code>	<code># {row.Prodtype}</code>
<input type="radio"/>	<code># {row.ProdId}</code>	<code># {row.Name}</code>	<code># {row.Image}</code>	<code># {row.Prodtype}</code>

showDetailFrame 2

Move Maximize Move Left

```
jsp:root
├── jsp:output
├── jsp:directive.page
├── JSF f:view
│   ├── afh:html
│   │   ├── afh:head - untitled1
│   │   └── afh:body
│   │       ├── af:messages
│   │       └── h:form
│   │           ├── cust:panelCustomizable
│   │           │   ├── cust:showDetailFrame
│   │           │   │   ├── af:table - table1
│   │           │   │   ├── ShowDetailFrame facets
│   │           │   └── cust:showDetailFrame
│   │           │       ├── af:objectImage - /julie.png
│   │           │       └── ShowDetailFrame facets
```








# Parameter Wiring

Enter a US ZIP Code:

ZIP Code:

OK

10001

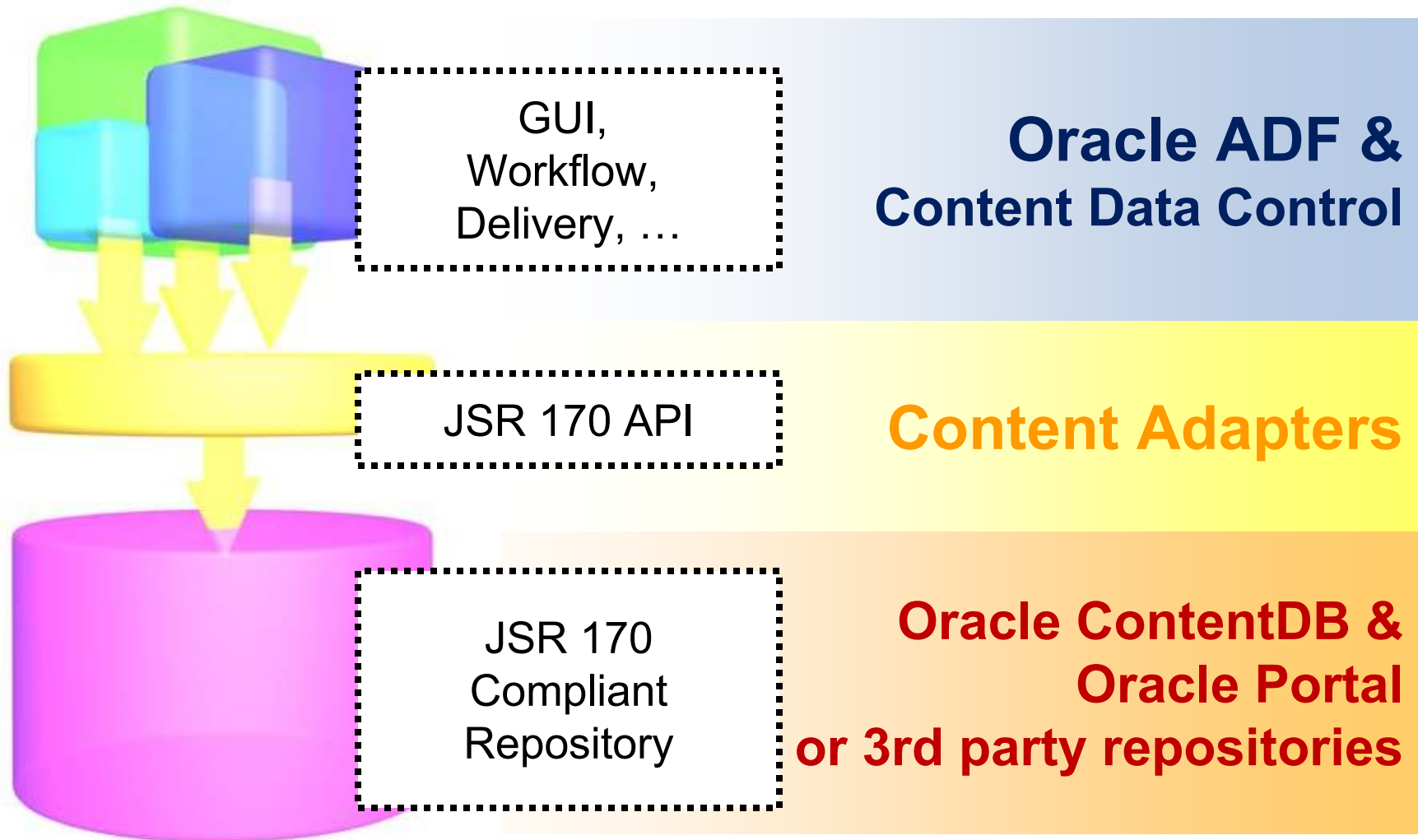
Weather Forecast for ZIP code				
Day	Hi	Low	Sky	
Monday	55	45	Rainy	
Tuesday	68	50	Partly Sunny	
Wednesday	70	55	Partly Cloudy	
Thursday	63	50	Partly Sunny	
Friday	80	70	Cloudy	
Saturday	61	50	Partly Cloudy	
Sunday	85	80	Sunny	

**Parameter Form:**  
**WSRP 2.0 portlet**

**OmniPortlet:**  
**PDK-Java portlet**

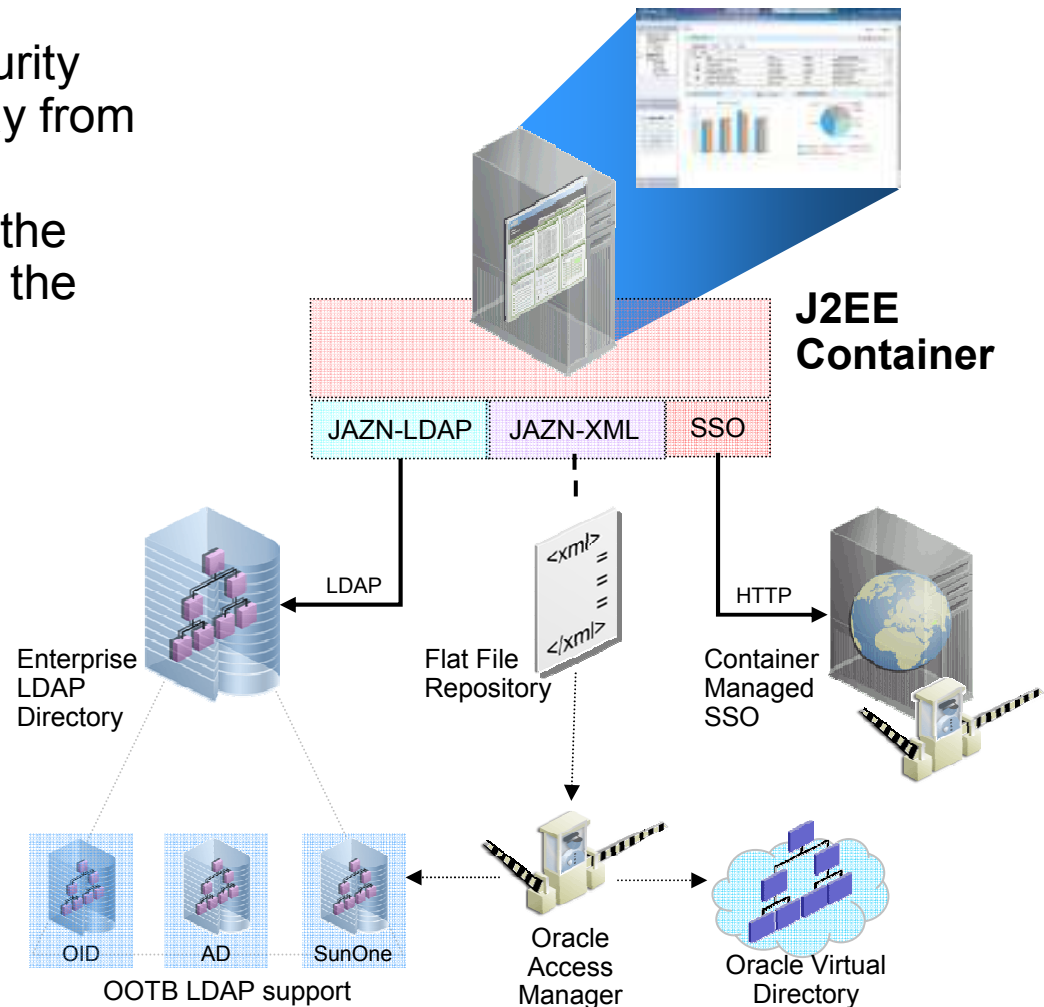
# Oracle's Path to JCR

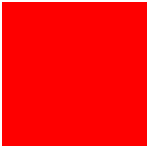
## Content Centric Applications



# Plug & Play Security Infrastructure

- Knowledge of the installed Security Infrastructure is abstracted away from the application.
- Application takes advantage of the Security Manager configured in the J2EE Container.
- OOTB support for the following security Infrastructures;
  - File based
  - LDAP directory Servers
    - OID
    - Active Directory
    - SunOne
    - 3<sup>rd</sup> party LDAP
  - Oracle Access manager
    - Oracle Virtual Directory





# **Details - WebCenter Services**

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# Content Service - Content DB

## Content Management Features

### User Access and Management

- Folder and document-level security
- Group and role-based access control
- Multi-site management

### APIs

- Web services
- Java

### Library Services

- Check-in/out
- Automatic policy-based versioning
- Automatic/required Categories
- Symbolic links
- Content and metadata search

### BPM

- Event-driven BPEL workflows
- Workflow Web services orchestration

### Extensibility

- Custom Event-Handlers

### Compliance and Content Security

- Policy-based records & storage mgmt.
- Comprehensive Auditing/Reporting
- Virus checking and scanning

### Usability Features

- Enhanced Web UI with edit-in-place
- Comprehensive Windows desktop integration with offline management
- Mac desktop integration



# Search Service - Secure Enterprise Search

- Search and locate public, private and shared content across different sources
- Highly secure crawling, indexing, and searching
- A simple, intuitive search interface leading to an excellent user-experience
- Analytics on search results and understanding of usage patterns
- Sub-second query performance
- WebCenter integration points
  - Secure Enterprise Search Web Service
  - Web Service Data Control





# Presence & Chat Service

- Enterprise market packaging of Oracle Communication & Mobility Service (OCMS)
  - SIP-based Proxy/Registrar (Voice, Video, IM)
  - Presence Server
  - SIP phone/IM client
  - Presence Web Services
  - OID Module
- Voice Option
  - Service Creation Environment
  - Support for custom server side SIP services such as click to call, presence enabled routing, etc..



# Threaded Discussion Service

- Oracle WebCenter Discussions
  - Jive Software's Jive Forums 5.1.0 Silver Edition
- Mature, J2EE based enterprise discussions application
  - simple and powerful discussions interface
  - web-based administration
  - enterprise architecture
- Over 1,300 customers & powers many online communities
- JSR-168 portlet exposes Jive's functionality to WebCenter application pages



# Wiki Service

- Oracle WebCenter Wiki
  - Wiki implementation - yawiki, “Yet Another Wiki”.
  - A project on SourceForge.net, accessible under BSD license
- Supports collaborative authoring of Web content
- Can be deployed to any standard J2EE container
- Integration options
  - Web Service/Web Service data control
  - JSR 168 Portlets

# WebCenter Service Taskflows

Simple, Consistent, Reusable way to perform all Tasks

The screenshot displays the Oracle WebCenter Service Taskflows interface. The top navigation bar includes a 'Recent' dropdown, a 'Favorites' dropdown, a search bar with a 'Search All' button, and a 'Search' button. The main content area is divided into several sections:

- Notifications:** A sidebar on the left lists various notification categories like Approvals, Alerts, PTOs, Other, Budgets, Expenses, Phone Bill, and Miscellaneous. The main area shows a table of notifications with columns for Filter, Open, Title, From, Status, Date, and Justification.
- Expenses by Quarter:** A bar chart showing actual and budgeted expenses for each quarter.
- Budget by Category:** A pie chart showing the distribution of budget across different categories.
- Communities:** A sidebar on the right lists various communities like My Workplace, All Prospects, Community ABC, Ford Visit, General Motors, GMC Tracking, KIA Tracking, Photography, Sales Reps, PM Interaction, Taxes Help, Create Community, and Open Community.
- Documents:** A sidebar on the left lists various documents like Favorite Documents, Oracle WebCenter, and various reports.
- Discussions:** A sidebar on the left lists various discussions like Favorite Discussions, Oracle WebCenter, and various reports.
- Email:** A sidebar on the left lists various email messages like Favorite Emails, Oracle WebCenter, and various reports.
- Preferences:** A sidebar on the right lists various preferences like Online Meeting, Chat, Email, View Profile, and View CH.
- Presence:** A sidebar on the right lists various presence information like Andrew Sefkow, Benson L. Am, Candace Fende, Christian Hauer, Dan Jordan, Harvood Singh, Pankaj Mittal, Radul Patel, Steve Burns, Todd Jende, Vandana Deep, and Ved Singh.

Callouts with red text labels point to these components: Favorites, Search, Recent, Preferences, Notifications, Email, Discussions, Documents, Communities, Contextual Wiring, and Presence.

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# **Product Demonstration: Oracle WebCenter Suite**

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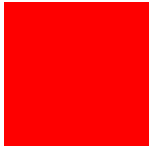
# Summary

- **Oracle WebCenter Suite introduces a new platform for user interaction**
- **Combines the best of:**
  - Portals (portlets, customization)
  - Rich client development frameworks
- **SOA enabled, hot-pluggable**
- **Supports the latest Java UI standards: JSF, JSR-227, JSR-168, JCR 1.0**
- **Foundation for Fusion Applications**



# For More Information

- **Product Collateral - Whitepapers, Data Sheets, Demos, Podcasts**
  - **Oracle Technology Network:**  
<http://webcenter.oracle.com>
- **Technical Questions**
  - **WebCenter Suite Discussion Forum:**  
<http://forums.oracle.com/forums/forum.jspa?forumID=354>
- **Software Download**
  - [Application Server 10.1.3.2](#)
  - [JDeveloper 10.1.3.2 \(Studio Edition\)](#)
- **Documentation**
  - [WebCenter 10.1.3.2](#)
- **Training**
  - **Oracle Partner Network:** [WebCenter Workshop](#)



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