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Oracle WebCenter Product Overview

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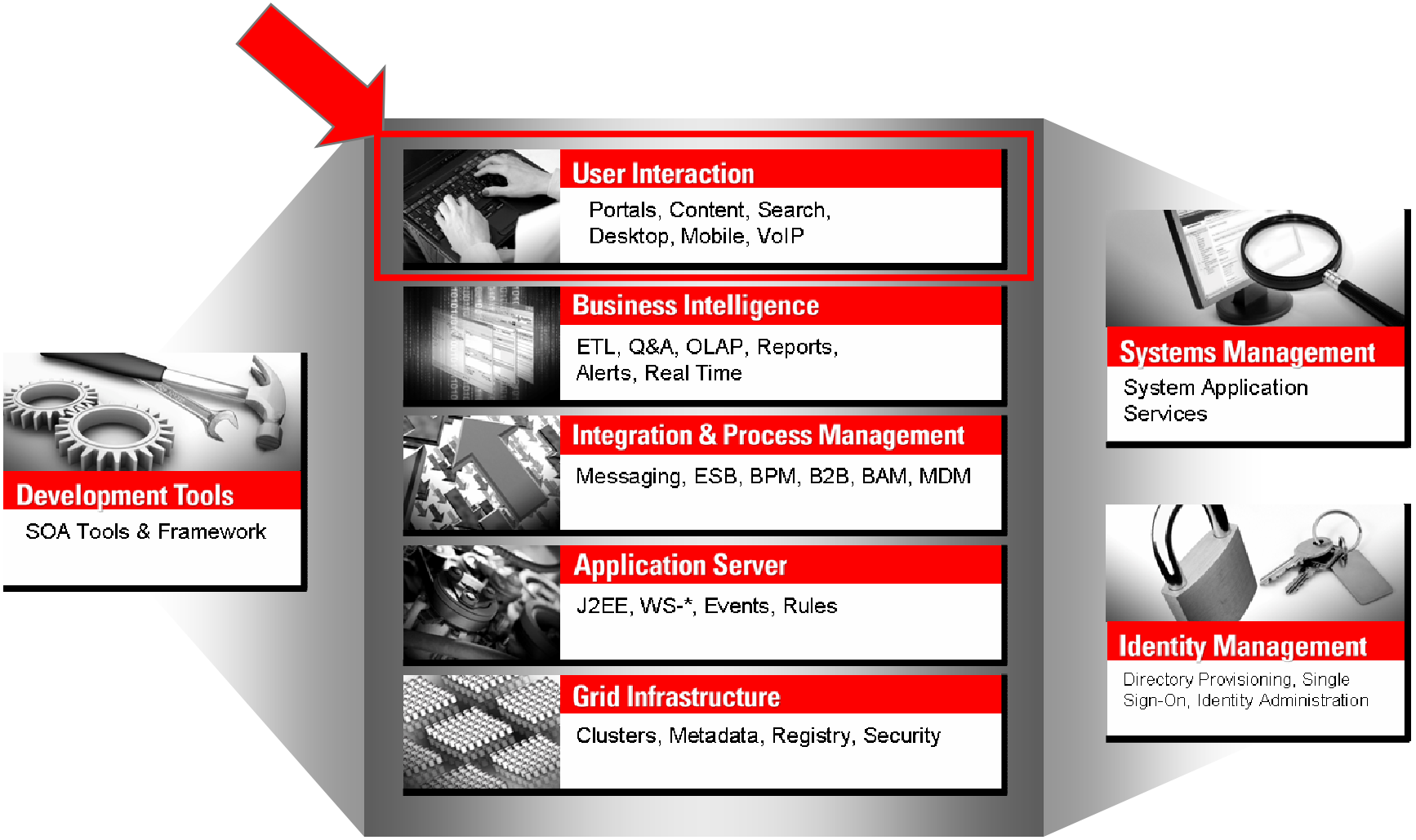
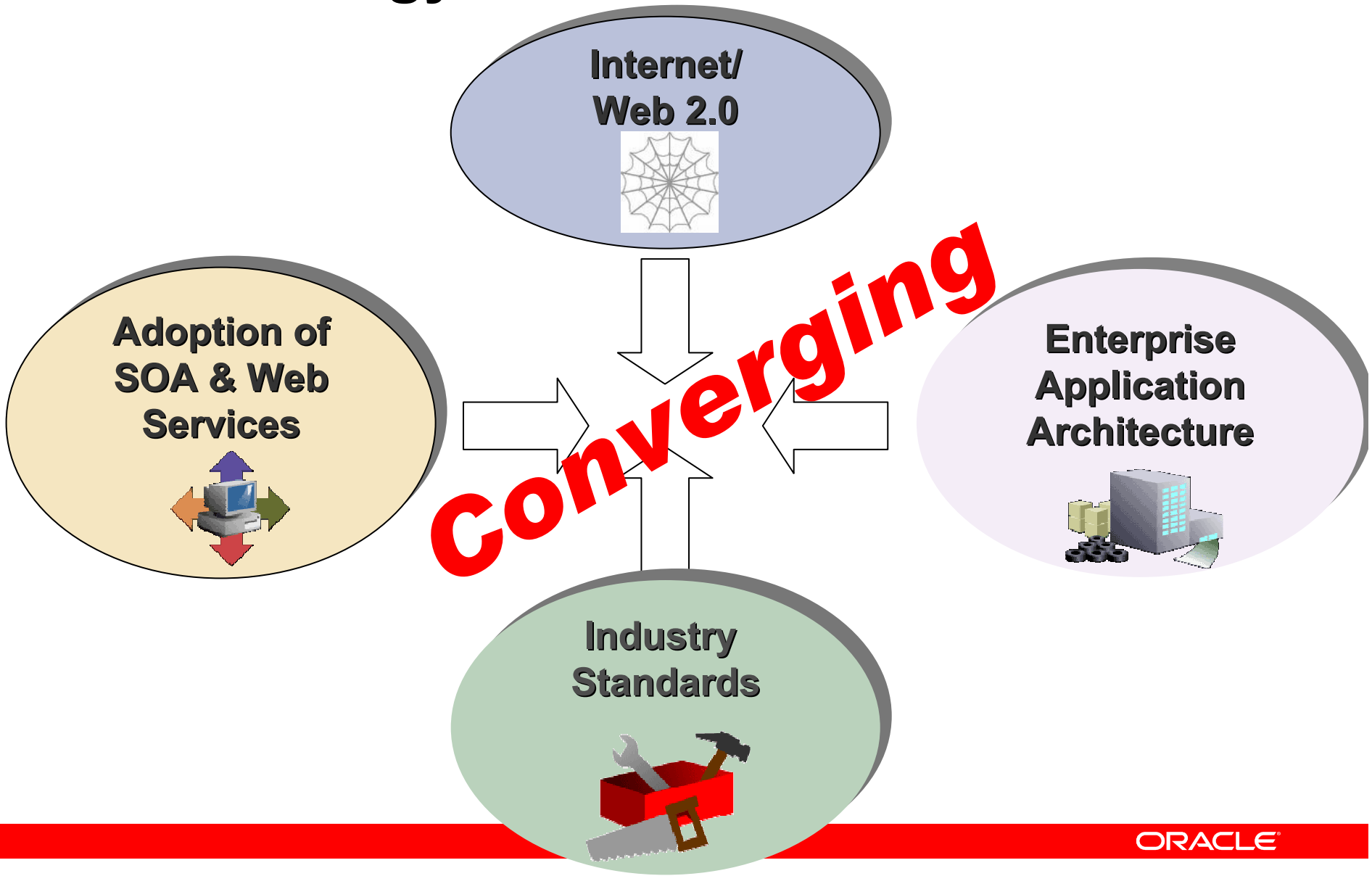
Oracle Fusion Middleware



Technology Trends - User Interaction



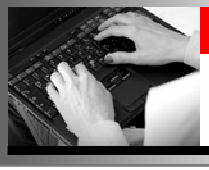
Oracle's User Interaction Strategy

- 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

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

Development Tools

SOA Tools & Framework

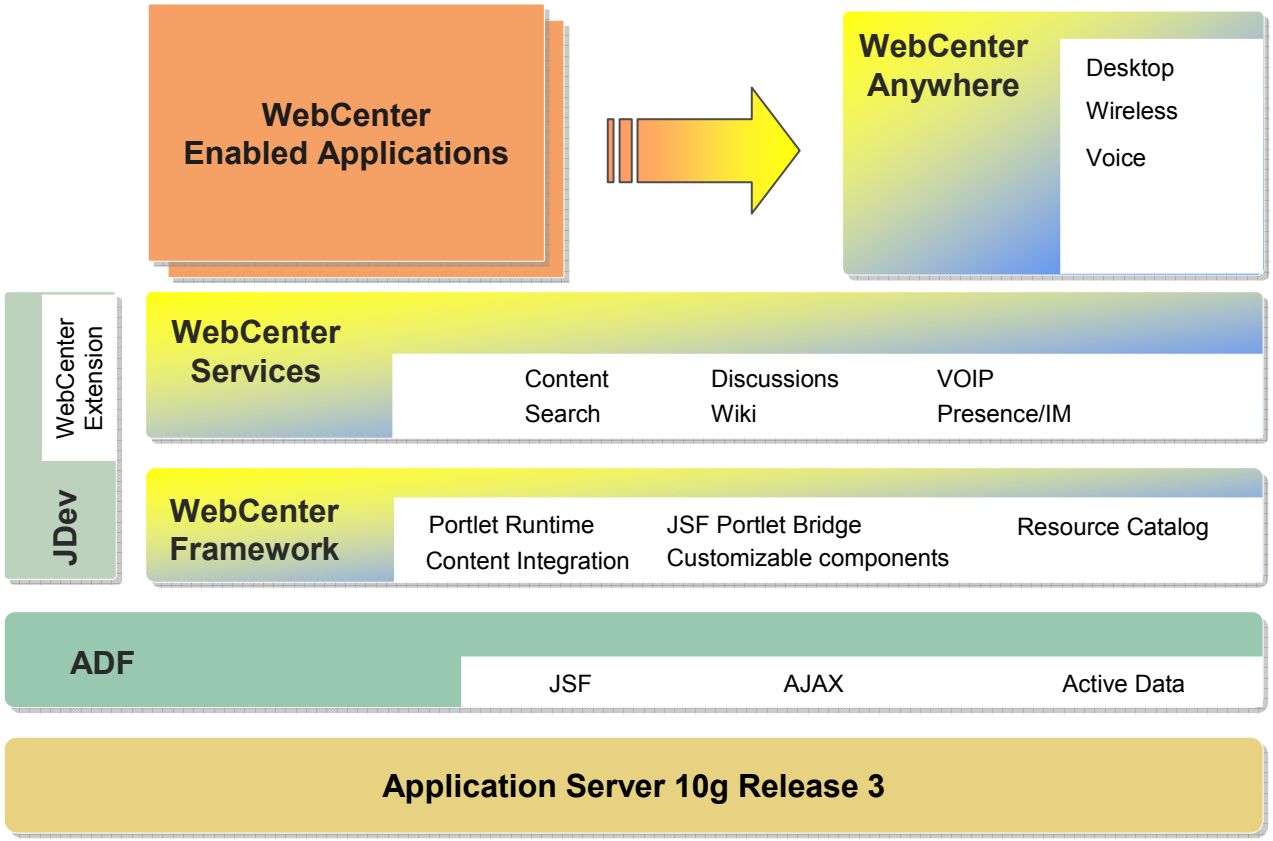
Systems Management

System Application Services

Identity Management

Directory Provisioning, Single Sign-On, Identity Administration

Oracle WebCenter Suite 10g Release 3



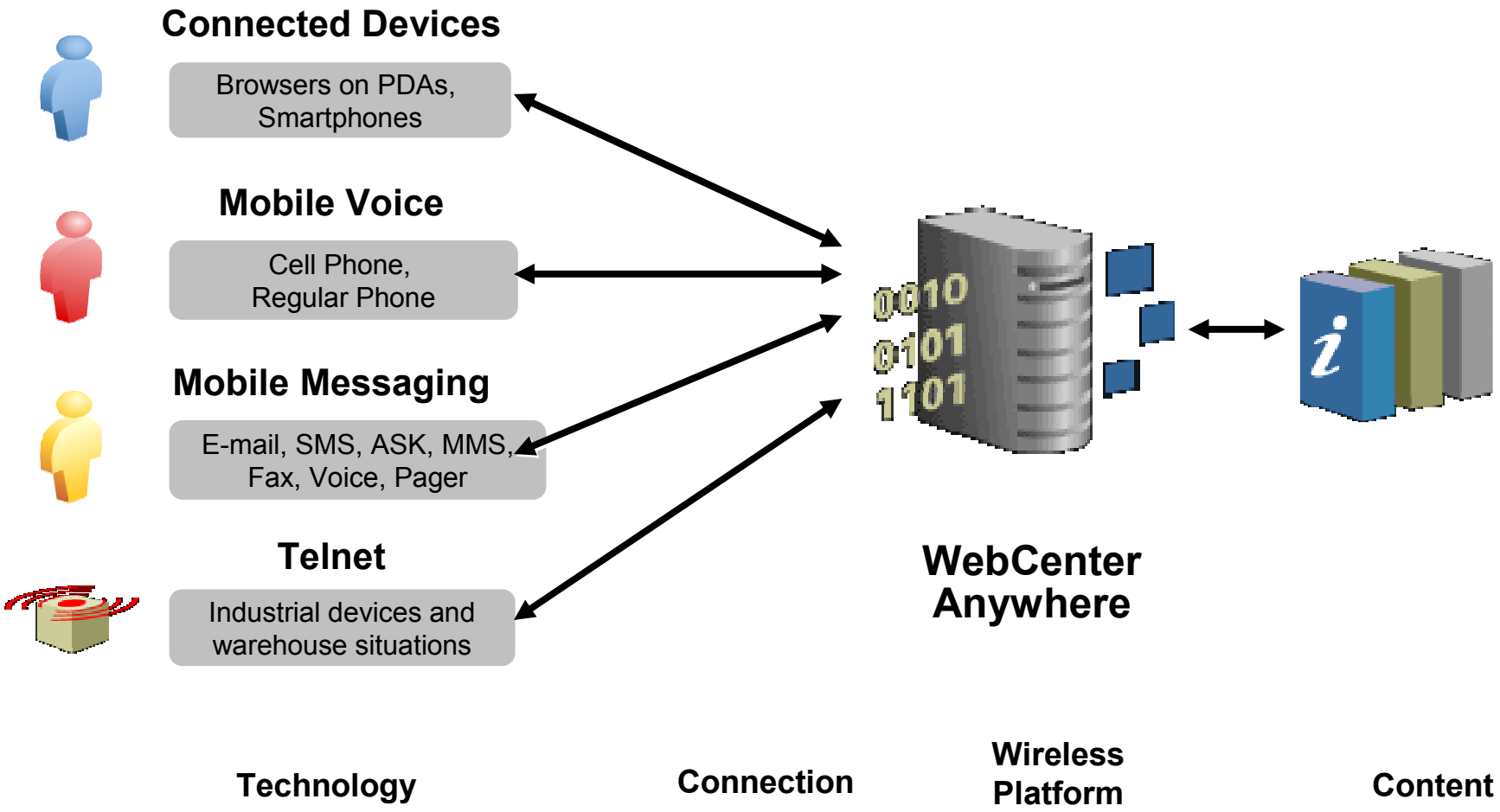
WebCenter Framework

- 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

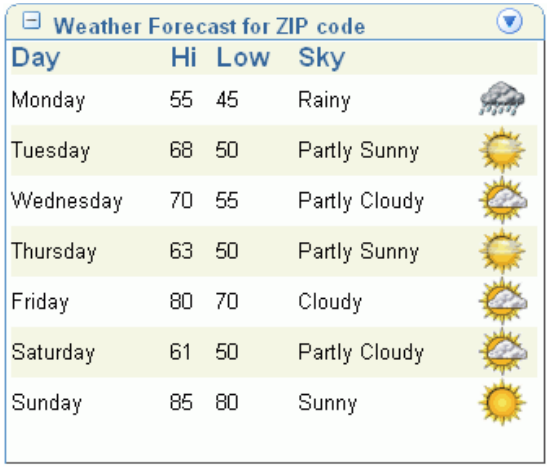
WebCenter Anywhere



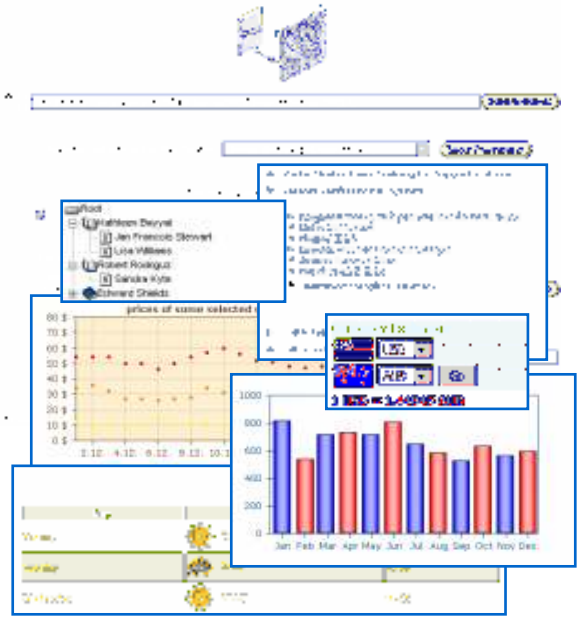
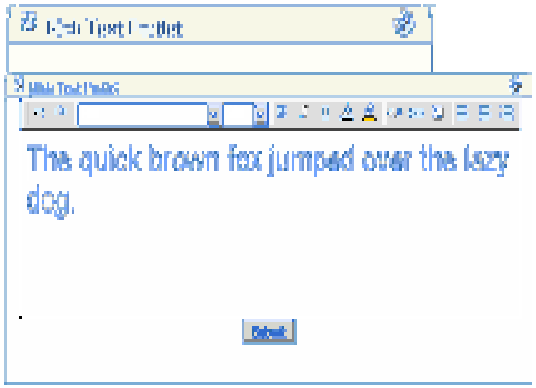
Details - WebCenter Framework

Portlets – Overview

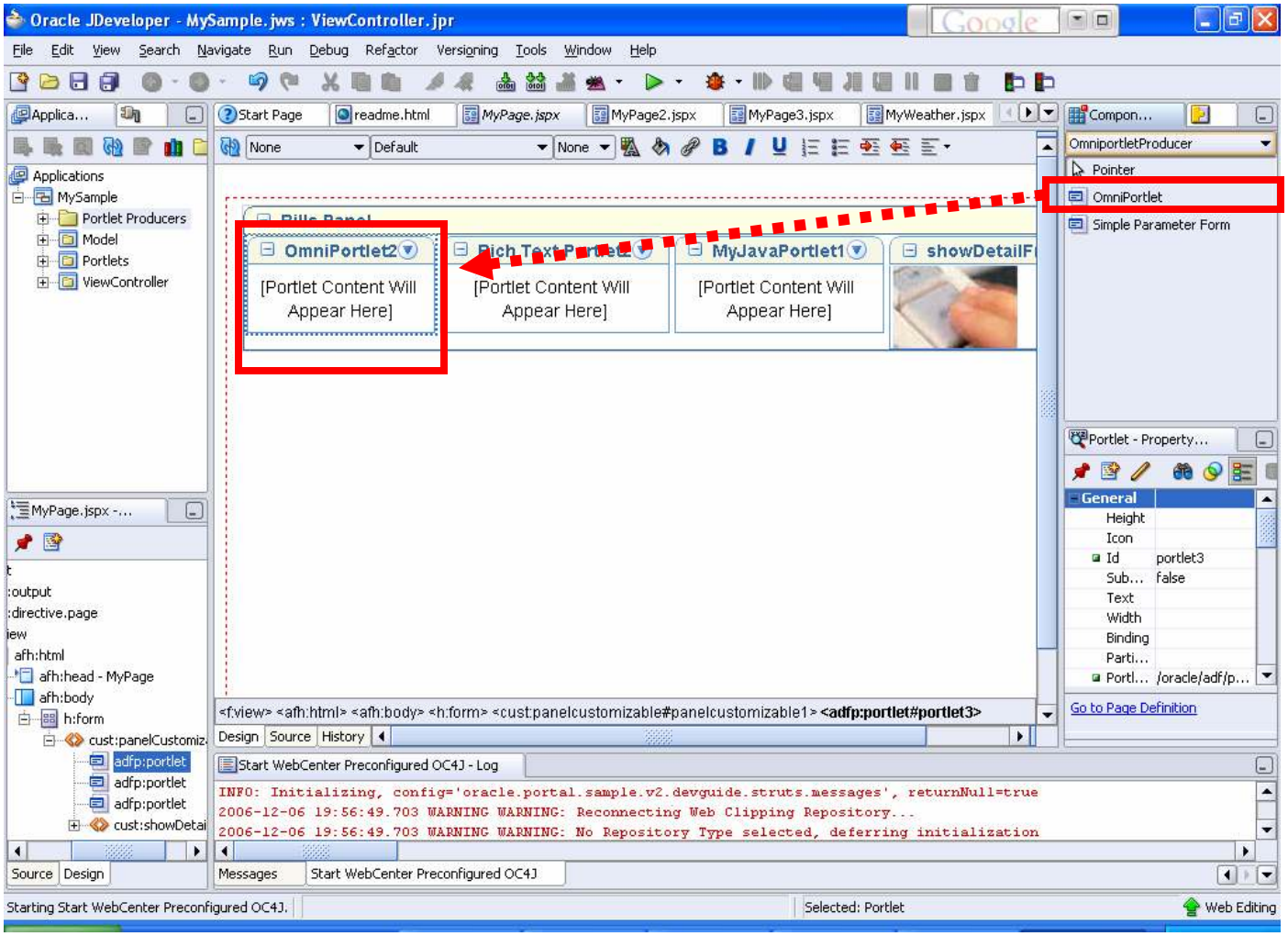
- Portlets: reusable Web components providing personalization and customization capabilities
- Portlet technologies:
  - Standards-based portlets (JSR 168)
  - Oracle PDK-Java portlets
  - PL/SQL portlets (Portal 10g – local portlets)



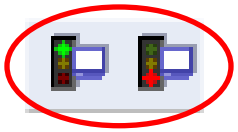
Out-of-the-box Portlets

Web Clipping	OmniPortlet	Rich Text Portlet
		

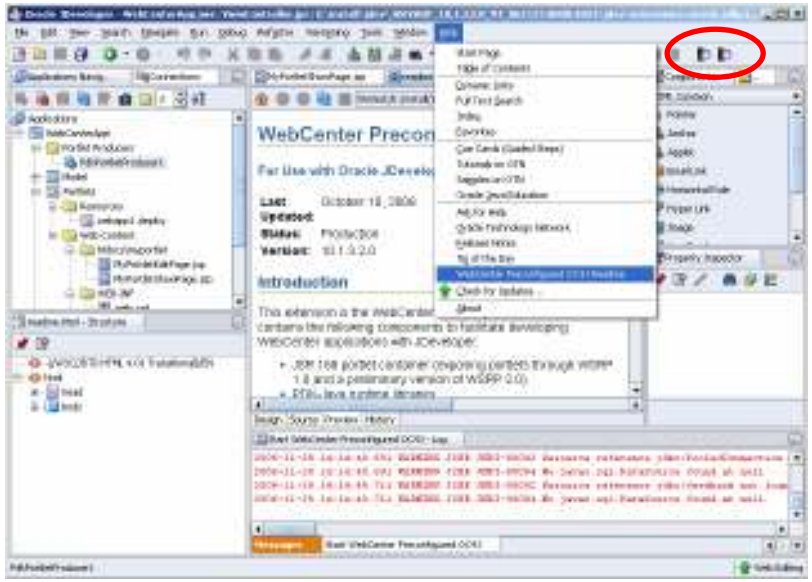
Drag/drop Portlets within a JSF Page



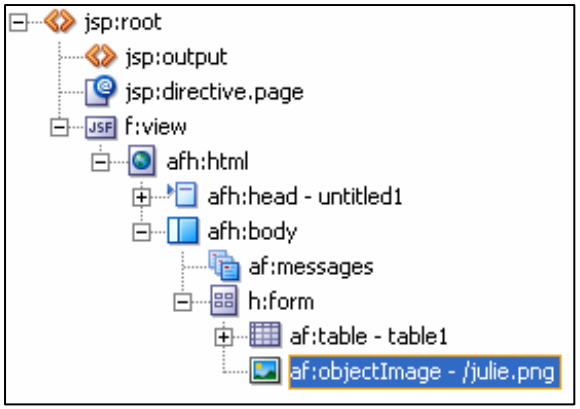
JDev 10.1.3.2 Preconfigured OC4J

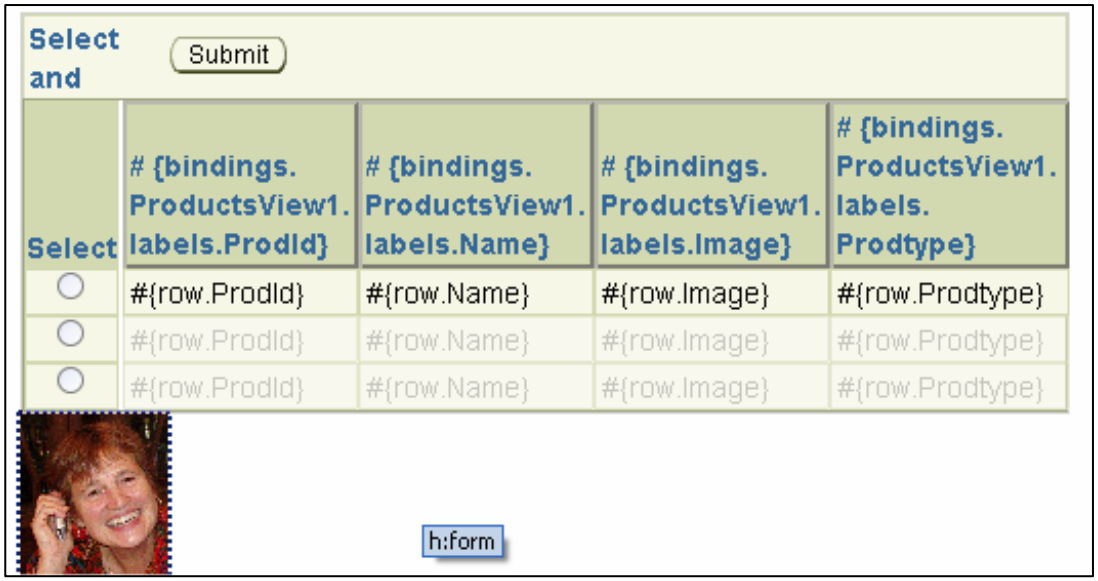


- Installed with JDeveloper 10.1.3.2
- Managed from within JDeveloper
- A stand-alone OC4J dedicated to portlets and WebCenter applications, containing:
  - Portlet container
    - JSR 168 / WSRP
    - PDK-Java
  - Portal tools
    - OmniPortlet
    - Web Clipping
    - Rich Text Portlet
  - Sample portlets

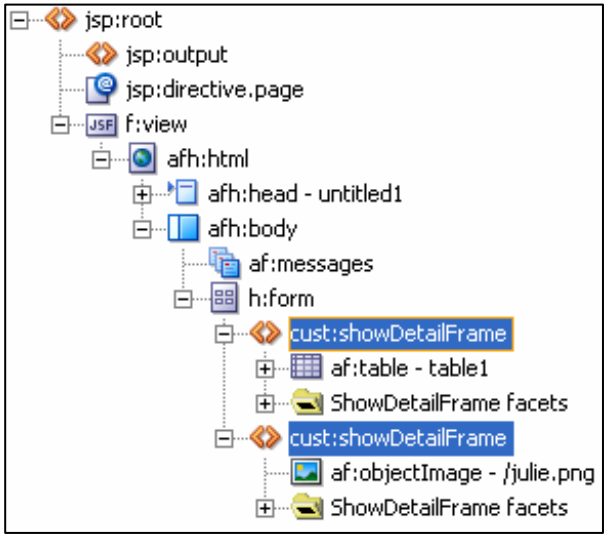


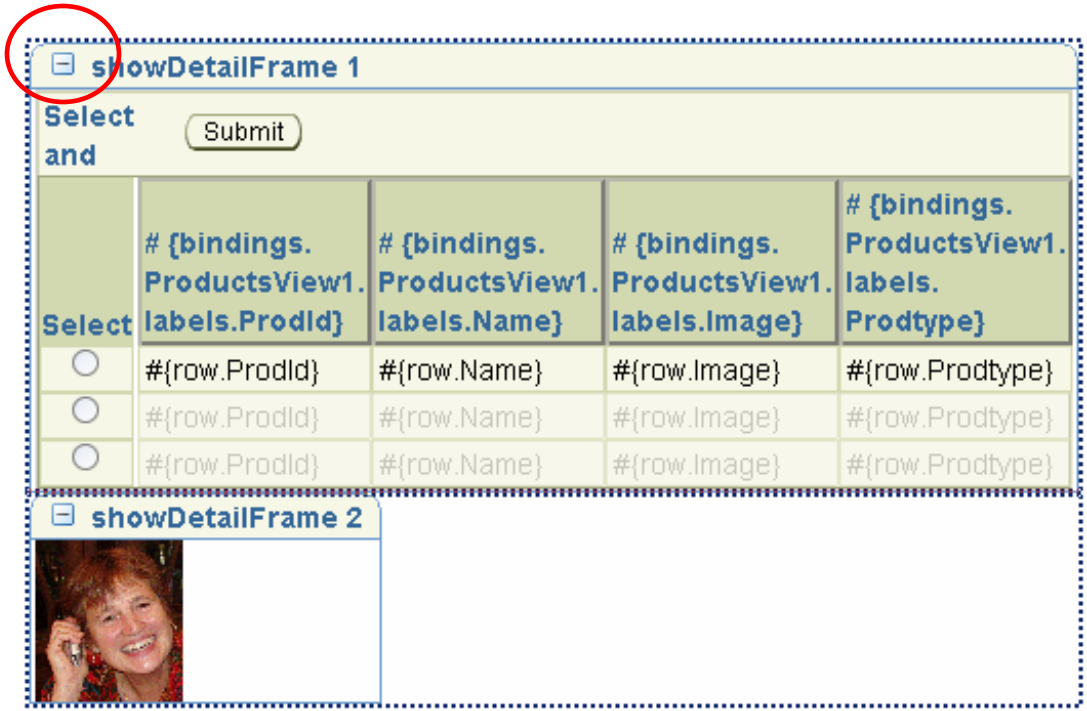
Customizable Components



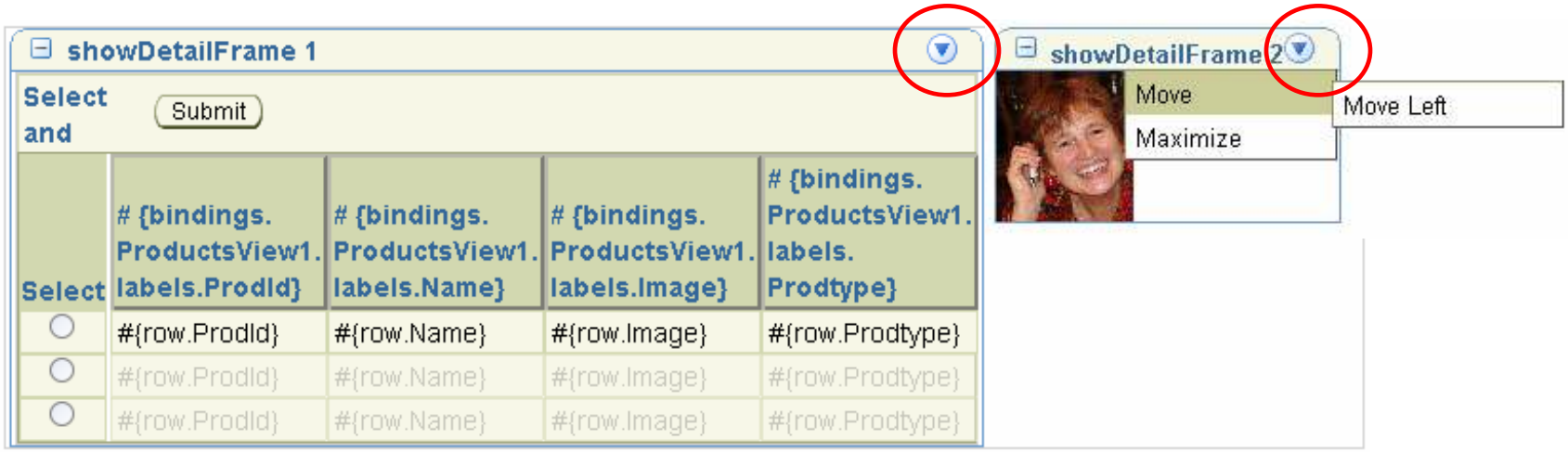


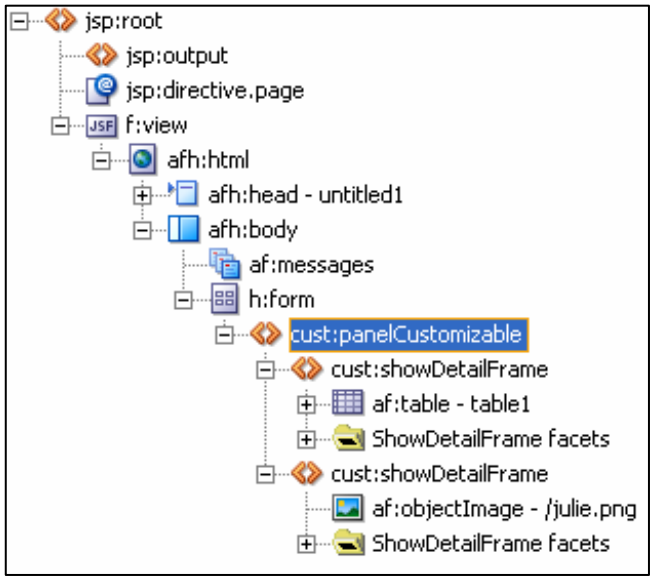
ShowDetailFrame



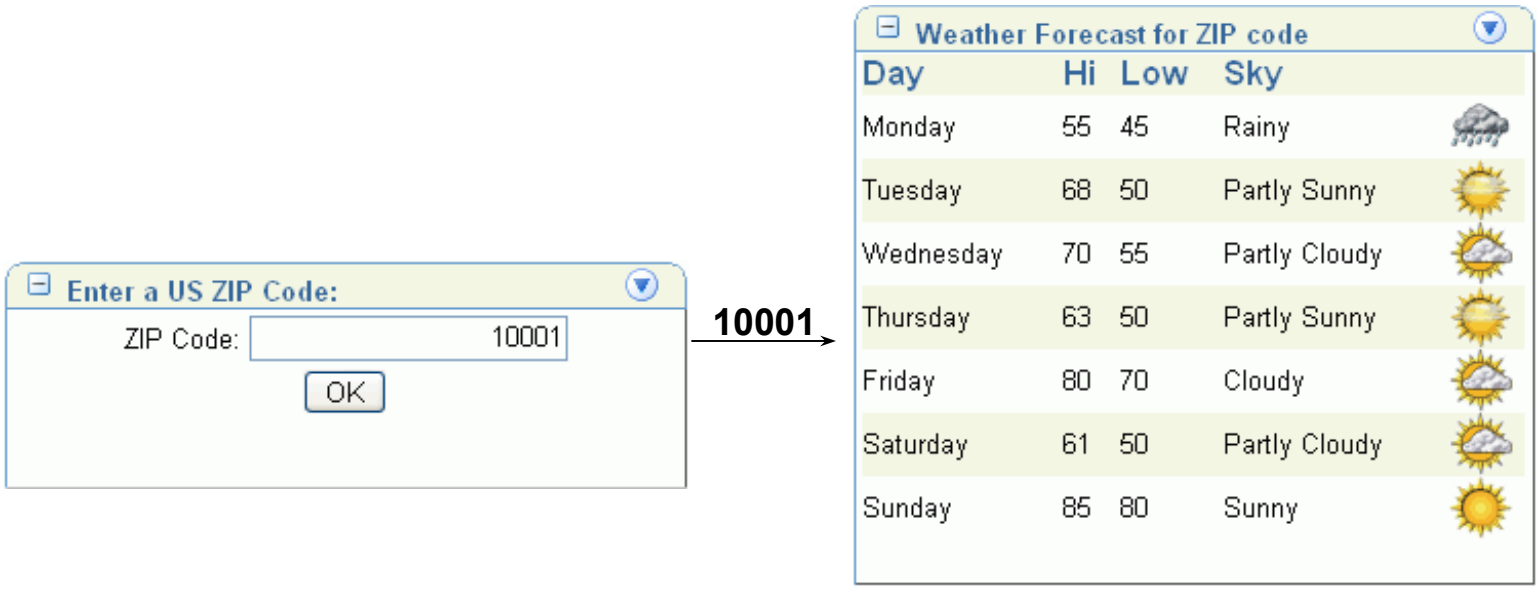


PanelCustomizable





Parameter Wiring

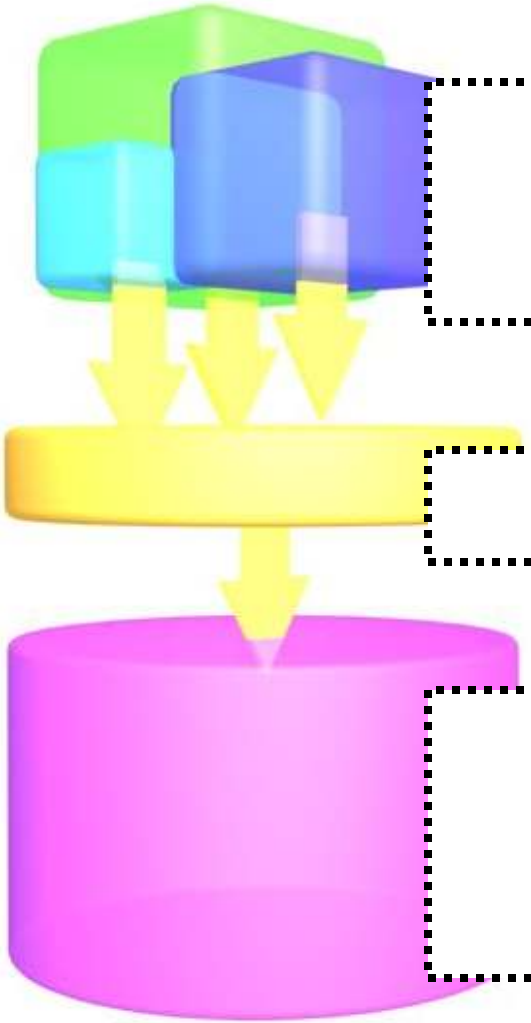


Parameter Form:
WSRP 2.0 portlet

OmniPortlet:
PDK-Java portlet

Oracle's Path to JCR

Content Centric Applications



GUI,
Workflow,
Delivery, …

Oracle ADF &
Content Data Control

JSR 170 API

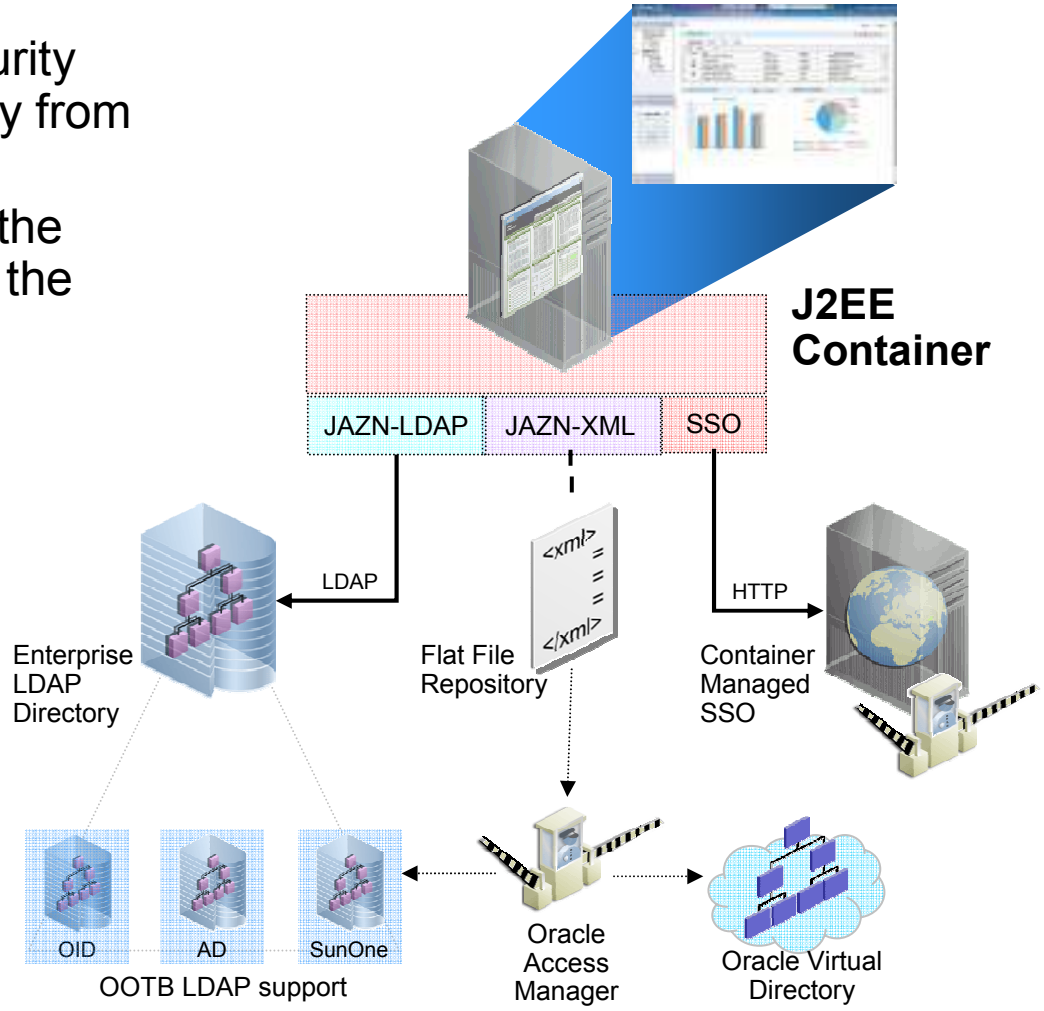
Content Adapters

JSR 170
Compliant
Repository

Oracle ContentDB &
Oracle Portal
or 3rd party repositories

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
    - 3rd party LDAP
  - Oracle Access manager
    - Oracle Virtual Directory



Details - WebCenter Services

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/Registar (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

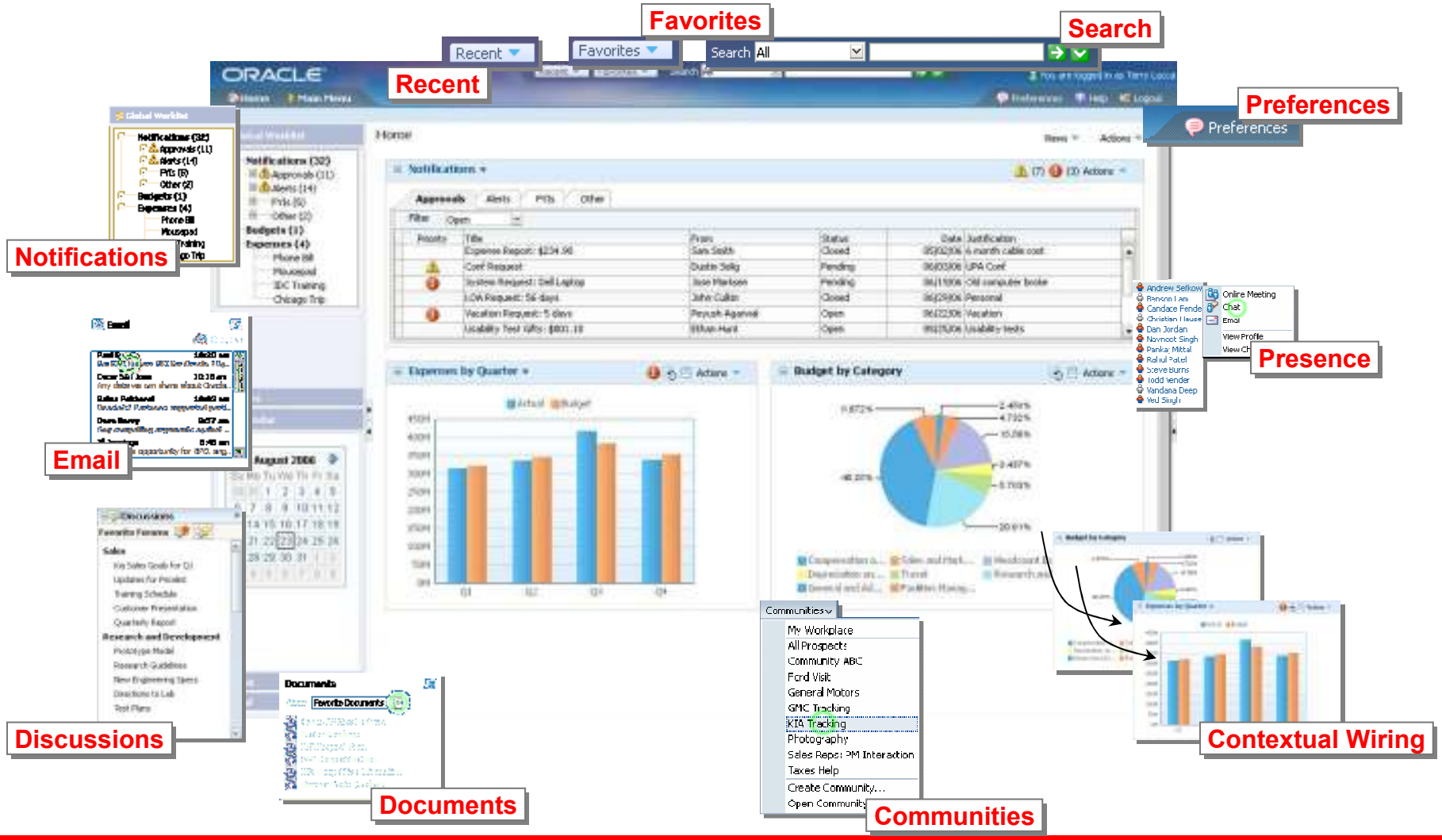
- Oracle WebCenter Discussions
  - Jive Software's Jive Forums 5.1.0 Silver Edition
- Mature, J2EE based enterprise discussions application
  - simple and powerful discussions interface
  - web-based administration
  - enterprise architecture
- Over 1,300 customers & powers many online communities
-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



Product Demonstration: Oracle WebCenter Suite

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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