Oracle WebLogic Portal:
Using the WSRP Standard to Interoperate and Federate Content and User Interfaces

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Agenda

- Disclaimer
- Why WSRP?
- Oracle and the WSRP Standard
- Oracle WebLogic Portal WSRP Road Map
- Oracle Product Lines & WSRP Interoperability Matrix with WLP
- Oracle WebLogic Portal WSRP Demonstration
Oracle Safe Harbor Statement

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Why WSRP?
Federated Portals

Enable a fabric of distributed enterprise portal services that can simply be combined to enable IT to increase efficiency and allow the business to respond quicker.
**Opportunities & Challenges**

- Legacy Web applications contained functionality important to portals
- Needed to ease transition from this Web app functionality to portals
- Functionality and portals developed by different teams

**Solution Powered by Oracle**

- PrimeView Portal for Prime Brokerage business
- Federates portlets from legacy Web applications so that they can be used by portal audiences
- Federation aggregates functionality developed and owned by different groups
- WebLogic Server as federated portlet producer
WSRP: Component Isolation

Opportunities & Challenges

- Needed centralized access to company information for store managers across 6000 stores
- Inefficient paper-based processes

Solution Powered by Oracle

- Employee portal for store management using Oracle WebLogic Portal and WebLogic Integration
- Federates portlets to improve production release cycle time
- Integrates with .Net through Web services
- Deployed in HP/Intel platform

Results

- Single access point to information for managers and employees
- Real-time access to corporate information
- Streamlined processes like employee on-boarding, benefits enrollment, procurement, and expenses
- More effective decision making
WSRP: Application Component Reuse

Opportunities & Challenges

- Educational services provider
- Needed to change development model where multiple silo applications are built with few chances of reusing code

Solution Powered by Oracle

- Portals built on Oracle WebLogic Portal for university clients
- Uses portal federation to increase reuse and development efficiency
- Portal federation better suited to their business model as a services provider

Results

- Simplified development through reuse of remote portlets
- Faster time to market for new portals due to reuse
Oracle’s Commitment to WSRP, JSR 168, JSR 286 Standards

- Web Services for Remote Portlets (WSRP) and the JSR 168 & JSR 286 standards enable the interoperability of portlets across different portal platforms
- Oracle has a strong commitment to supporting these standards in its product lines and uses them in many of its core product functions
- Oracle has contributed significantly to the WSRP specification
- Oracle actively contributed as a member of the expert group for JSR168 & JSR 286, advocating strongly for ensuring compatibility with WSRP
Oracle WebLogic Portal Roadmap for WSRP 2.0 & JSR 286

• Rollout support for WSRP 2.0 & JSR 286 is occurring in several releases of WLP
  • Started with WLP 10.0/10.2/10.3
    • Base support for WSRP 2.0
  • WLP Sunshine release (CY2009)
    • Balance of the WSRP 2.0 specification
    • JSR 286
    • WLP Sunshine release follows 10.2 & 10.3 releases

• Strategy
  • Goal is to align WLP support of WSRP 2.0 with rollout of JSR 286 & the WebCenter family
WSRP Support in WLP 10.3

- Maintains WSRP 1.0 interoperability and will continue to provide WSRP 1.0 framework including all extensions
- Implements the final specification of the WSDL format support for WSRP 2.0
- Has WSRP 2.0 basic producer/consumer support
- Implements WSRP 2.0 Import / Export portlets optional feature
  - WSRP 2.0 added several new operations aimed at making it easy to move the state of portlets across environments (for example, development to staging to production)
  - For WLP, these operations will be tied into the propagation framework
  - You will be able to use Import / Export even in a WSRP 1.0 environment
WLP Sunshine Release

- Implements the balance of the WSRP 2.0 key features
- WSRP 2.0 Event Based Coordination
  - IPC support for federated portlets
  - Leverages existing IPC support you have today in extensions to WSRP 1.0 but based on JSR 286 standard for IPC and integrated with the WSRP 2.0 specification
  - Customers will be able to upgrade their WSRP 1.0 environment to support these features in Oracle’s implementation of WSRP 2.0
- WSRP 2.0 Resource Serving
  - Allows resources to be served over SOAP instead of HTTP
- WSRP 2.0 Consumer Managed Navigational State For Portlets
  - Allows sharing of name/value pairs of data across producers as managed by a consumer
- Updated producer/consumer APIs
- *And Importantly:* A coordinated implementation with WLP’s JSR 286 support in the same release
Oracle WebLogic Portal & WebCenter

“A strategic decision has been made by the WebCenter engineering team to use the WebLogic Portal WSRP Producer / Consumer framework in the WebCenter Technology Product Stack”
Oracle WebLogic Portal
WSRP Interoperability Matrix
Oracle Product Lines Tested

- Oracle WebLogic Portal 10.3
- Oracle Portal 10g
- Oracle WebCenter 10gR3
- Oracle UCM Content Portlet Suite 10gR3
WLP Consuming WebCenter & Oracle Portal
Standard WSRP 1.0 Test Portlets

• Each tests a different area of functionality:
  http://portalstandards.oracle.com/portletapp/portlets?WSDL

  **Chart Portlet:** This portlet demonstrates how the WSRP specification enables portlets to generate their own images. The portlet handles the "Left" and "Right" by incrementing corresponding counts stored in a user-private session. Click on About in the portlet header for more information.

  **Lottery Portlet:** This is a standards-enabled version of the classic PDK sample portlet that demonstrates how a portlet can generate proxied links to local resources including images. Click on About in the portlet header for more information.

  **CSS Portlet:** This portlet demonstrates the usage of some of the WSRP standardized CSS class names and their mapping to the Oracle Portal "Look and Feel". Click on About in the portlet header for more information.

  **Cache Test Portlet:** This portlet uses the WSRP cache control mechanism to request that its content is cached for 1 minute. Click on About in the portlet header for more information.

  **Form Submission Portlet:** This portlet demonstrates how WSRP-enabled portlets can easily submit data to themselves and handle the submission. Click on About in the portlet header for more information.

  **Session Portlet:** This basic test portlet demonstrates how portlets can cache data in a user-private area of memory known as the session. Click on About in the portlet header for more information.

  **Hello World Portlet:** This very basic portlet demonstrates how WSRP enabled portlets have access to "User Profile Attributes" such as your email address. Click on About in the portlet header for more information.
WLP Consuming WebCenter Content Portlet Suite (UCM) Portlets

- All of these UCM Content Portlet Suite portlets have been successfully tested with WLP:
  - Oracle Contribution Portlet
  - Oracle Guest Library Portlet
  - Oracle Library Portlet
  - Oracle Workflow Queue Portlet
  - Oracle Metadata Admin Portlet
  - Oracle Saved Search Portlet
  - Oracle Search Portlet
WebCenter 10g Consuming WLP 10.3 Test Portlets

• All of these public WLP Producer Test portlets have been successfully consumed by Oracle 10gR3
  • http://wsrp.bea.com:7001/producer/producer?WSDL
  • WLP Create A User Account Portlet
  • WLP Login Portlet
  • WLP Redirect Portlet
  • WLP Preferences Portlet
• These additional portlet types have been tested as well
  • WLP JSR168 Portlet
  • WLP Beehive Page Flow Portlet
  • WLP JSP Portlet
  • WLP JSF Portlet (Simple)
  • WLP Struts Portlet
Oracle WebLogic Portal WSRP Demonstration
Oracle WebLogic Portal / UCM Architecture

Portal Application

- Weblogic Portal
- Oracle UCM Content Portlet Suite
- Oracle UCM Server
- Search Portlet
- Contribution Portlet
- Workflow Portlet
- Library Portlet
- (more)
Using The WebLogic Portal Administration Console to Add The UCM WSRP Portlets To The Portal Pages
Using the UCM WSRP Content Portlets To Search / Submit & Approve Content In A WebLogic Portal Application
WLP Using UCM Content Search Portlet
WLP Using UCM Content Search Portlet
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WLP Using UCM Workflow Approval Portlet
Q&A / Thanks for Coming!