Stop Swivel Chair Integration with the JBoss Enterprise Portal Platform

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What is a portal?
Today: “Swivel Chair” Integration

- Manufacturing Info
- Employee Data
- Supply
- Inventory
- Customer Records
- Product Data

→ Fax or printout
→ Web Browser
→ Call to IT to Get manual report
→ Web Service
→ Green Screen
→ Windows Client/Server
Portals provide **INTEGRATION and AGGREGATION**
Portal Perspectives for different Users

CSR Portal

Customer Portal

Manager Portal
Portal Consumption

- RDBMS
- Remote Portlet
- Portlet JSP
- CMS
Why use a portal?

Why not just use a 'regular' web framework?

- Requires all components to be written using the same technology
- Enterprise environments, soon or later, deal with multiple technologies
- Some web frameworks have support for portals

Speed up deployment of a portal

- Existing standard portlets
Integration of different technologies
Integration of different technologies
Portals and SOA

Split your services
- Maintenance
- Lifecycle
- Technology independent

Split your web applications
- Maintenance
- Lifecycle
- Technology independent

Don't split the UI!
- The user doesn't like to have to deal with multiple applications

A portal is a window on the services
JBoss Portal overview
JBoss Portal State of the Union

Focus on core portal functionality

- Aggregation
  - Provides a standards-based environment for serving a portal's web interface and publishing/managing portal applications and content
- Consistent look and feel
- Performance and scalability
- Centralized security
  - Single Sign On across elements of the portal
  - Identity manager
- Presentation framework (Portal vs Portlet level)
Standards based

JSR-168: Portlet Specification
   • Final release: Oct 27th, 2003

JSR-286: Portlet Specification 2.0
   • Proposed Final Draft: Dec 13th, 2007
   • Red Hat Middleware LLC represented by:
      • Julien Viet (JBoss Portal project leader)

JSR-301: Portlet Bridge Specification for JavaServer™ Faces
   • Early Draft Review 2: Sep 10th, 2007
   • Red Hat Middleware LLC represented by:
      • Julien Viet (JBoss Portal project leader)
      • Wesley Hales (JBoss Portal)
      • Stan Silvert (JSF expert)
Standards based

JSR-170: Content Repository for Java technology API
OASIS WSRP v1.0
Leverages other JBoss components

JBoss SX
- JAAS based domain security subsystem

JBoss Cache
- Performance
- Fault tolerance

Hibernate
- database independence

jBPM
- Business process
- Better flexibility

JBoss Web Services
- WSRP
Installation Overview

JBossAS/Portal Bundle
- Zero Installation Required
  - Start Server
  - Go to http://localhost:8080/portal

Standalone JBoss Service Archive (SAR)
- jboss-portal.sar – Core framework code
  - portal-core.war – stores layouts/themes
  - portal-server.war – portal server root context
- ... 
- Hibernate DDL/DML executed on initial startup
- HSQL embedded (Not for production)
Modularized

Deploy/Undeploy components
Light bare portal
Soft dependency between elements
Identity portlets does not necessarily require the workflow service
  • Depends on your needs
Identity Server integration

A set of interfaces to integrate with any identity server

- Red Hat Directory Server
- OpenLDAP
- OpenDS
- Sun Directory Server
- Microsoft Active Directory
- ...
Single Sign On integration

Several applications, a unique login challenge to the user
A set of interfaces to integrate with any SSO framework

- CAS
- JOSSO
- Open SSO
- ...

THE FOURTH ANNUAL RED HAT SUMMIT
Usability Enhancements

Improved Interfaces

- Portal Administration
- Portlets
- Portlet Instances
- Portlet Defaults

- User Administration
- Simplified User Creation
- User Search
- List Based View

- Content Management
- Search for content items to manage
- Action Based Management
- Familiar Directory View
Management portlet

Modify your portals with few clicks
  • Add/Remove pages
  • Add/Remove portlet windows
  • ...

Change theme for a page or a portal
Modify security restrictions
Change other properties (Drag and drop, Partial refresh...)
Management portlet

<table>
<thead>
<tr>
<th>Portal</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>admin</td>
<td><img src="icon" alt="Security" /></td>
</tr>
<tr>
<td>default</td>
<td><img src="icon" alt="Security" /></td>
</tr>
<tr>
<td>template</td>
<td><img src="icon" alt="Security" /></td>
</tr>
</tbody>
</table>
Identity portlets

Captcha support
jBPM integration
- More flexibility
- Verify email address
- Approve new accounts
Identity portlets

<table>
<thead>
<tr>
<th>User Management</th>
<th>Role Management</th>
</tr>
</thead>
</table>

**User Management**

- Search users
- Create new user account

**Matrix**

| Registered users | 2 |

**Subscription Modes**

<table>
<thead>
<tr>
<th>Subscription mode</th>
<th>Automatic - no e-mail validation, no admin approval.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin subscription mode</td>
<td>Automatic - no e-mail validation, no admin approval.</td>
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</table>
CMSportlet

Online publishing

Workflow
  ● Configurable
  ● Role based approval workflow out of the box
  ● Based on jBPM

Versioning
  ● With live/draft option
Links to resources within this portal should be absolute. For example: A link to an image located in default/images/back.gif should be typed in exactly as shown here. Do not prefix a slash (/) to the path of the resource. You can verify the link is correct by clicking on the preview button in the editor.
WSRP versus JSR-168

- JSR-168

WSRP

JBoss Portal

WebSphere Portal

Portlet Container

Portlet Page

Portlet Page

Portlet Page

Portlet Page
WSRP consumer admin console

### Manage Consumers

Create a consumer named: [ ] Create Consumer

<table>
<thead>
<tr>
<th>Consumer [status: active, inactive, needs refresh]</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEA (inactive) (refresh needed)</td>
<td>Configure</td>
</tr>
<tr>
<td>self (active)</td>
<td>Configure</td>
</tr>
</tbody>
</table>
Community

A large base of users

- Active forums
- Multiple environments, OS, database...
- User input and early feedback
- Helps us anticipate needs before final releases

10,000 downloads a month
Questions?

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http://labs.jboss.com/jbossportal
http://blog.jboss-portal.org