From: Dawe, Bill

Sent: 7/11/2013 9:04:47 PM

To: TTAB EFiling

CC:

Subject: U.S. TRADEMARK APPLICATION NO. 85163836 - BC CONNECT - 7204-85729-0 - Request for Reconsideration Denied - Return to TTAB - Message 22 of 27

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Attachment Information:

Count: 4

Files: c82-2.jpg, c83-1.jpg, c83-2.jpg, c83-3.jpg

- Business\firstname.middleinitial.lastname Example: Business\John.Q.Student
- Logins created Fall 2004 and later have the last two digits of the year they were created added to the username- Business\firstname.middleinitial.lastname04 Example: Business\John.Q.Student04

Computer Lab Hours

Monday-Thursday: 7 AM-Midnight
Friday: 7 AM-6 PM
Saturday: 10 AM-6 PM
Sunday: Noon-Midnight

Help Desk Resources

Help Desk Hours:
Monday-Thursday: 7 AM-Midnight
Friday: 7 AM-6 PM
Saturday: 10 AM-6 PM
Sunday: Noon-Midnight

mLab Hours:
Monday-Friday 8 AM-4 PM
Weekends: CLOSED

Help Desk E-Mail: COB-HelpDesk@business.colostate.edu

Help Desk Phone Number: (970) 491-5968 ext. 1

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Chapter 9. Web Services for Remote Portlets (WSRP)

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9.1. Introduction

The Web Services for Remote Portlets specification defines a web service interface for accessing and interacting with interactive presentation-oriented web services. It has been produced through the efforts of the Web Services for Remote Portlets (WSRP) OASIS Technical Committee. It is based on the requirements gathered and on the concrete proposals made to the committee.

Scenarios that motivate WSRP functionality include:

- Content hosts, such as portal servers, providing Portlets as presentation-oriented web services that can be used by aggregation engines.
- Aggregating frameworks, including portal servers, consuming presentation-oriented web services offered by content providers and integrating them into the framework.

More information on WSRP can be found on the official website for WSRP. We suggest reading the primer for a good, albeit technical, overview of WSRP.

9.2. Deploying JBoss Portal's WSRP services

JBoss Portal provides a base level support of the WSRP 1.0 standard and offers both consumer and producer services. WSRP support is provided by the *portal-wsrp.sar* service archive, included in the main *jboss-portal.sar* service archive.

If you've obtained the source distribution of JBoss Portal, you need to build and deploy the WSRP service separately. Please follow the instructions on how to install JBoss Portal from the sources. Once this is done, navigate to *JBOSS_PORTAL_HOME_DIRECTORY/wsrp* and type:

```
build deploy
```

At the end of the build process, *portal-wsrp.sar* is copied to *JBOSS_HOME/server/default/deploy*.

> **Note**
>
> WSRP is built upon the JBoss WS web service stack. There is a known issue with the version 1.0.0.GA of JBoss WS bundled with JBoss Application Server 4.0.4.GA, issue which prevents the complete deployment of JBoss Portal's WSRP service if the user is not online or behind a firewall/proxy. This has been addressed in version 1.0.2.GA of JBoss WS. Please follow the instructions on how to upgrade JBoss WS as found on JBoss Portal's wiki.

9.3. Making a portlet remotable

JBoss Portal does not, by default, expose local portlets for consumption by remote WSRP consumers. In order to make a portlet remotely available, a *jboss-portlet.xml* deployment descriptor for that portlet must be added to the *WEB-INF* folder of the web application containing the portlet and must be similar to the example below:

```
<?xml version="1.0" encoding="UTF-8"?>
<portlet>
  <portlet-name>BasicPortlet</portlet-name>
```

```
  <remotable>true</remotable>
</portlet>
```

Here, the portlet named "BasicPortlet" is specified as being remotable. The "remotable" element is optional.

It is also possible to specify that all the portlets declared within a given *jboss-portlet.xml* file have a specific "remotable" status by default. Usually, this feature will be used to remotely expose several portlets without having to specify the status for all the declared portlets. Let's look at an example:

```
<portlet-app>
  <remotable>true</remotable>
  <portlet>
    <portlet-name>RemotelyExposedPortlet</portlet-name>
    ...
  </portlet>
  <portlet>
    <portlet-name>NotRemotelyExposedPortlet</portlet-name>
    <remotable>false</remotable>
    ...
  </portlet>
</portlet-app>
```

In the example above, we defined two portlets with a default "remotable" status set to true. This means that all portlets defined in this descriptor are, by default, exposed remotely by JBoss Portal's WSRP producer. Note, however, that it is possible to override the default behavior by adding a *remotable* element to a portlet description. In that case, the "remotable" status defined by the portlet takes precedence over the default. In the example above, the *RemotelyExposedPortlet* inherits the "remotable" status defined by default since it does not specify a *remotable* element in its description. The *NotRemotelyExposedPortlet*, however, overrides the default behavior and is not remotely exposed. Note that in the absence of a top-level *remotable* element, portlets are NOT remotely exposed.

9.4. Accessing JBoss Portal's WSRP Producer from a remote Consumer

WSRP Consumers vary a lot as far as how they are configured. Most of them require that you either specify the URL for the Producer's WSDL definition or the URLs for the individual endpoints.

JBoss Portal's Producer is automatically set up when you deploy a portal instance. Assuming you're running a default configuration (i.e. you haven't changed the server's port number), you can access the WSDL file at http://localhost:8080/portal-wsrp/MarkupService?wsdl. You can acces the endpoint URLs are:

- http://localhost:8080/portal-wsrp/ServiceDescriptionService
- http://localhost:8080/portal-wsrp/MarkupService
- http://localhost:8080/portal-wsrp/RegistrationService
- http://localhost:8080/portal-wsrp/PortletManagementService

9.5. Consuming remote WSRP portlets in JBoss Portal

9.5.1. Overview

To be able to consume WSRP portlets from a remote producer, JBoss Portal's WSRP consumer needs to know how to access the remote producer. This is done via *-wsrp.xml* descriptors that provide JBoss Portal's consumer information about which remote producers to access and with which configuration. These files can be dropped in the deploy directory of the JBoss application server or nested in .sar files for examples. It is possible to configure access to several different producers within a single *-wsrp.xml* file or use one file per producer.

JBoss Portal's producer exposes its information to the Portal itself as a default consumer with the identifier *self*. That means that all the remotable portlets are also exposed as remote portlets in the portal. The *portal-wsrp.sar* file contains the file *default-wsrp.xml* that contains this default producer. This file can be edited or removed if needed.

Once a remote producer has been configured in a *-wsrp.xml* file, it becomes available in the list of portlet provider in the Management portlet on the Admin page of JBoss Portal. You can then examine the list of portlets that are exposed by this producer and configure the portlets just like you would for local portlets.

Note

Note

As of 2.4, the optional Portlet Management interface of WSRP is **NOT** supported. It is therefore not possible to clone and configure portlets on the consumer side. This will be supported in 2.6.

Let's see how it works step by step. Let's create a *public-bea-wsrp.xml* file as follows:

```
<deployments>
  <deployment>
    <wsrp-producer>
      <producer-id>bea</producer-id>
      <expiration-cache>120</expiration-cache>
      <endpoint-wsdl-url>http://wsrp.bea.com:7001/producer/producer?WSDL</endpoint-wsdl-url>
      <registration-data>
        <consumer-name>JBoss Portal 2.4 Test</consumer-name>
        <property>
          <name>registration/consumerRole</name>
          <lang>en</lang>
          <value>public</value>
        </property>
      </registration-data>
    </wsrp-producer>
  </deployment>
</deployments>
```

This producer descriptor gives access to BEA's public WSRP producer. We will look at the details of the different elements later. Note for now the *producer-id* element with a "bea" value. Put this file in the deploy directory and start the server (with JBoss Portal and its WSRP service deployed).

Let's now look at the Admin page and the management portlet. Click on the "Portlets" link at the top to manage the portlets. Once this is done, look at the list of available portlet providers. If all went well, you should see something similar to this:

We have 3 available portlet providers: *local, self* and *bea*. The "local" portlet provider exposes all the portlets deployed in this particular instance of Portal. The "self" provider