

Chapter 32

Developing an Enterprise Service Portal

This chapter describes how you can develop an enterprise service portal based on the sample Enterprise Service Portal. This chapter contains the following sections:

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Developing a Portal Based on the Sample Enterprise Service Portal

The source code is included with the sample Enterprise Service Portal. To make complex changes to the portal, we recommend that you install a Java development environment.

The sample Enterprise Service Portal does not require any specific environment, but the procedures to develop a portal assume that you use the Eclipse platform. A servlet container is required to run the portals during development. We recommend that you use Tomcat and its Eclipse plug-in.

For information about your development environment, see the documentation for the product you are using.

Preparing to Develop a Sample-Based Enterprise Service Portal

The following instructions describe how to set up a development environment that uses Eclipse and Tomcat on a Solaris platform. If you want to use Eclipse and Tomcat on a different operating system, see the following Web sites:

- For Eclipse

<http://www.eclipse.org>

- For Tomcat

<http://jakarta.apache.org/tomcat>

To get ready to develop a portal based on the sample Enterprise Service Portal:

1. Download and install Eclipse from

<http://www.eclipse.org>

2. Download the Tomcat plug-in for Eclipse from

<http://www.sysdeo.com/eclipse/tomcatPlugin.html>

3. Unzip the plug-in into the Eclipse installation directory.

4. Download Tomcat from

<http://jakarta.apache.org/tomcat>

5. Install Tomcat:

```
mkdir $HOME/eclipse
cd $HOME/eclipse
unzip /tmp/eclipse-SDK-2.0.2-solaris-motif.zip
unzip /tmp/tomcatPluginV201.zip
cd $HOME
gzip -dc /tmp/tomcat-4.1.18.tar.gz | tar xvf -
```

6. Start Eclipse.

7. Configure the Tomcat plug-in.

Select **Window > Preferences > Tomcat**, and configure the Tomcat version and the path where you installed Tomcat.

Creating a Portal Project for a Sample-Based Enterprise Service Portal

To create a new Tomcat project inside Eclipse:

1. Select **File > New > Project > Java > Tomcat Project**, enter the name of the project, and press **Finish**.
2. Select **File > Import... > Zip File**, enter the path for *entmgr.war*, and click **Finish**.

3. Select **File > Properties > Java Build Path > Libraries > Add Jars**, open the sample Enterprise Service Portal portal project, and navigate to *WEB-INF/lib*. Select all JAR files in the *WEB-INF/lib* directory.
4. Select **File > Properties > Tomcat**, and click **Can update server.xml file**.

You can find the source code of the sample Enterprise Service Portal in the directory *WEB-INF/src*. The JSP pages are stored in the layout and tiles directories.

Building a Sample-Based Enterprise Service Portal

Eclipse automatically rebuilds the project when you save a modified source file.

To test or debug the project, you must run the code inside Tomcat.

To start Tomcat:

- Select **Tomcat > Start Tomcat**.

You can set break points in your code to debug the code.

Deploying a Sample-Based Enterprise Service Portal

To create a new Web application, set the name of the target WAR file.

1. Select **File > Properties > Tomcat**.
2. Enter the path of the target WAR file in the field WAR file for export.
3. Right-click the portal project, and select **Tomcat Project > Export to the WAR file set** in project properties.
4. Copy the WAR file to the final deployment location; for example, */opt/UMC/jboss/server/default/deploy* on your portal server.

Testing a Sample-Based Enterprise Service Portal

To test a sample-based Enterprise Service Portal:

1. Use a virtual address for the portal See *Using a Virtual Address for the Portal* on page 542.
2. Test the portal. See *SRC-PE Monitoring and Troubleshooting Guide, Chapter 5, Configuring a Simulated Router Driver for Testing with the SRC CLI* or *SRC-PE Monitoring and Troubleshooting Guide, Chapter 6, Configuring a Simulated Router Driver for Testing with SDX Configuration Editor*.

Using a Virtual Address for the Portal

You can configure a virtual address for the portal under a common name in the Domain Name System (DNS) to specify the address through which client applications access the portal. For information about a virtual portal address, see *Virtual IP Address for Policies* on page 337.