

## Chapter 22

# 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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- Creating a Portal Project for a Sample-Based Enterprise Service Portal on page 400
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- Testing a Sample-Based Enterprise Service Portal on page 401
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### Developing a Portal Based on the Sample Enterprise Service Portal

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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

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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

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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 press 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

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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

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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

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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 401.
2. Test the portal. See *SDX Monitoring and Troubleshooting Guide, Chapter 6, Monitoring and Managing SAE Data*.

## Using a Virtual Address for the Portal

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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 225.

