



Sun Java System Portal Server 7.1 Enterprise Sample Guide



Sun Microsystems, Inc.
4150 Network Circle
Santa Clara, CA 95054
U.S.A.

Part No: 819-6837
2006Q4

Copyright 2006 Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 U.S.A. All rights reserved.

Sun Microsystems, Inc. has intellectual property rights relating to technology embodied in the product that is described in this document. In particular, and without limitation, these intellectual property rights may include one or more U.S. patents or pending patent applications in the U.S. and in other countries.

U.S. Government Rights – Commercial software. Government users are subject to the Sun Microsystems, Inc. standard license agreement and applicable provisions of the FAR and its supplements.

This distribution may include materials developed by third parties.

Parts of the product may be derived from Berkeley BSD systems, licensed from the University of California. UNIX is a registered trademark in the U.S. and other countries, exclusively licensed through X/Open Company, Ltd.

Sun, Sun Microsystems, the Sun logo, the Solaris logo, the Java Coffee Cup logo, docs.sun.com, Java, and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. in the U.S. and other countries. Products bearing SPARC trademarks are based upon an architecture developed by Sun Microsystems, Inc.

The OPEN LOOK and Sun™ Graphical User Interface was developed by Sun Microsystems, Inc. for its users and licensees. Sun acknowledges the pioneering efforts of Xerox in researching and developing the concept of visual or graphical user interfaces for the computer industry. Sun holds a non-exclusive license from Xerox to the Xerox Graphical User Interface, which license also covers Sun's licensees who implement OPEN LOOK GUIs and otherwise comply with Sun's written license agreements.

Products covered by and information contained in this publication are controlled by U.S. Export Control laws and may be subject to the export or import laws in other countries. Nuclear, missile, chemical or biological weapons or nuclear maritime end uses or end users, whether direct or indirect, are strictly prohibited. Export or reexport to countries subject to U.S. embargo or to entities identified on U.S. export exclusion lists, including, but not limited to, the denied persons and specially designated nationals lists is strictly prohibited.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Copyright 2006 Sun Microsystems, Inc. 4150 Network Circle, Santa Clara, CA 95054 U.S.A. Tous droits réservés.

Sun Microsystems, Inc. détient les droits de propriété intellectuelle relatifs à la technologie incorporée dans le produit qui est décrit dans ce document. En particulier, et ce sans limitation, ces droits de propriété intellectuelle peuvent inclure un ou plusieurs brevets américains ou des applications de brevet en attente aux États-Unis et dans d'autres pays.

Cette distribution peut comprendre des composants développés par des tierces personnes.

Certains composants de ce produit peuvent être dérivés du logiciel Berkeley BSD, licenciés par l'Université de Californie. UNIX est une marque déposée aux États-Unis et dans d'autres pays; elle est licenciée exclusivement par X/Open Company, Ltd.

Sun, Sun Microsystems, le logo Sun, le logo Solaris, le logo Java Coffee Cup, docs.sun.com, Java et Solaris sont des marques de fabrique ou des marques déposées de Sun Microsystems, Inc. aux États-Unis et dans d'autres pays. Toutes les marques SPARC sont utilisées sous licence et sont des marques de fabrique ou des marques déposées de SPARC International, Inc. aux États-Unis et dans d'autres pays. Les produits portant les marques SPARC sont basés sur une architecture développée par Sun Microsystems, Inc.

L'interface d'utilisation graphique OPEN LOOK et Sun a été développée par Sun Microsystems, Inc. pour ses utilisateurs et licenciés. Sun reconnaît les efforts de pionniers de Xerox pour la recherche et le développement du concept des interfaces d'utilisation visuelle ou graphique pour l'industrie de l'informatique. Sun détient une licence non exclusive de Xerox sur l'interface d'utilisation graphique Xerox, cette licence couvrant également les licenciés de Sun qui mettent en place l'interface d'utilisation graphique OPEN LOOK et qui, en outre, se conforment aux licences écrites de Sun.

Les produits qui font l'objet de cette publication et les informations qu'il contient sont régis par la législation américaine en matière de contrôle des exportations et peuvent être soumis au droit d'autres pays dans le domaine des exportations et importations. Les utilisations finales, ou utilisateurs finaux, pour des armes nucléaires, des missiles, des armes chimiques ou biologiques ou pour le nucléaire maritime, directement ou indirectement, sont strictement interdites. Les exportations ou réexportations vers des pays sous embargo des États-Unis, ou vers des entités figurant sur les listes d'exclusion d'exportation américaines, y compris, mais de manière non exclusive, la liste de personnes qui font objet d'un ordre de ne pas participer, d'une façon directe ou indirecte, aux exportations des produits ou des services qui sont régis par la législation américaine en matière de contrôle des exportations et la liste de ressortissants spécifiquement désignés, sont rigoureusement interdites.

LA DOCUMENTATION EST FOURNIE "EN L'ETAT" ET TOUTES AUTRES CONDITIONS, DECLARATIONS ET GARANTIES EXPRESSES OU TACITES SONT FORMELLEMENT EXCLUES, DANS LA MESURE AUTORISEE PAR LA LOI APPLICABLE, Y COMPRIS NOTAMMENT TOUTE GARANTIE IMPLICITE RELATIVE A LA QUALITE MARCHANDE, A L'APTITUDE A UNE UTILISATION PARTICULIERE OU A L'ABSENCE DE CONTREFAÇON.

Contents

Preface	7
1 Accessing the Enterprise Sample	11
Accessing the Sample Desktop	11
▼ To Access the Enterprise Sample	11
2 Customizing Your Desktop	13
Changing the Logo	13
▼ To Change the Logo	13
Adding a Background Image	14
▼ To Add a Background Image	14
Changing the Background Color	15
▼ To Change the Background Color	15
Modifying the Color Gradient Image	15
▼ To Modify the Color Gradient Image	15
Accessing the Portal Desktop Administration Screen	16
▼ To Administer the Enterprise Sample Desktop from the Portal Server Management Console	16
3 Presenting Information on the Desktop	17
Understanding Channels	17
Desktop Providers	18
JSR-168 Portlets	18
Adding Content to the Desktop Using Channels	19
Creating a URLScaper Channel	19
▼ To Create a URLScaper Channel	19
Editing the Channel Properties	20

▼ To Edit the Channel Properties	20
Verifying that the URLScrapper Channel Displays on the Desktop	20
▼ To Verify that the URLScrapper Channel Displays on the Desktop	20
Setting up Channel Menus	21
Channel Menu Design	21
Customizing the Channel Menu	22
Understanding Tabs	23
Categorizing Content Using Tabs	24
Creating a New Top-level Tab	24
▼ To Create a New Top-level Tab	24
Changing Tab Properties	25
▼ To Change Tab Properties	25
Creating a Nested Tab	25
▼ To Create a Nested Tab	25
Displaying Content Using Layout Properties	26
Changing the Width and Number of Columns	26
▼ To Change the Width and Number of Columns of a Nested Tab	27
▼ To Verify that the Layout Properties Are Changed	27
Adding New Layouts	27
▼ To Add New Layouts	27
Creating a Wiki Container and Channel	30
▼ To Create a Wiki Container	30
▼ To Edit the Wiki Container Properties	31
▼ To Create the Wiki Channel	31
4 Setting Up and Accessing an Anonymous Portal	33
Setting Up an Anonymous Portal	33
Creating an Anonymous Portal	34
▼ To Create an Anonymous Portal	34
Configuring the Portal Desktop for the Anonymous Portal	34
▼ To Configure the Portal Desktop for the Anonymous Portal	34
Setting Up the Anonymous Portal Desktop	35
▼ To Setup the Anonymous Portal Desktop	35
Accessing the Anonymous Portal	36

5	Presentation Templates	37
	Error Page Templates	37
	Using the Sample Template	38
	▼ To Use Sample Templates	38
	Defining the Login Failed Page	38
	▼ To Define the Login Failed Page	38
	Defining the Logout Page	39
	▼ To Define the Logout Page	39
6	Setting up the Communications Tab	41
	Introduction to Communication Services	41
	Communication Products	41
	Communications Tab Channels	41
	Limitations and Dependencies	42
	Installing the Enterprise Sample Portal Communications Tab	42
	Installation Prerequisites	42
	Installing the Communications Tab	43
	▼ To Install the Communications Tab	43
A	Installing the Enterprise Sample	47

Preface

The *Sun Java System Portal Server Enterprise Sample Guide* describes how to customize the Portal Server software Enterprise Sample desktop.

Who Should Use This Book

This guide is for users with minimal Sun Java™ System Portal Server experience, proof of concept builders, and evaluators. This guide is not a replacement for the existing Java Enterprise System Portal Server online documentation and training courses. This guide does not guide you through a full Portal Server deployment.

Before You Read This Book

Use this book in conjunction with the following books:

- *Sun Java System Portal Server 7.1 Technical Reference*
- *Sun Java System Portal Server 7.1 Developer's Guide*
- *Sun Java System Portal Server 7 Technical Overview*

Related Books

The <http://docs.sun.com> (<http://docs.sun.com/>) web site enables you to access Sun technical documentation online. You can browse the archive or search for a specific book title or subject.

The Portal Server Enterprise Sample Guide is available as online files in Portable Document Format (PDF) and Hypertext Markup Language (HTML) formats. Both formats are readable by technologies for users with disabilities. The Sun Java System Portal Server documentation can be accessed [here](http://docs.sun.com/coll/1483.1) (<http://docs.sun.com/coll/1483.1>).

Related Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

Note – Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Sun will not be responsible or liable for any actual or alleged damage or loss caused or alleged to be caused by or in connection with use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- [Documentation](http://www.sun.com/documentation/) (<http://www.sun.com/documentation/>)
- [Support](http://www.sun.com/support/) (<http://www.sun.com/support/>)
- [Training](http://www.sun.com/training/) (<http://www.sun.com/training/>)

Typographic Conventions

The following table describes the typographic conventions that are used in this book.

TABLE P-1 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> Password:
<i>aabbcc123</i>	Placeholder: replace with a real name or value	The command to remove a file is <code>rm filename.</code>

TABLE P-1 Typographic Conventions (Continued)

Typeface	Meaning	Example
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . A <i>cache</i> is a copy that is stored locally. Do <i>not</i> save the file. Note: Some emphasized items appear bold online.

Shell Prompts in Command Examples

The following table shows the default UNIX® system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

TABLE P-2 Shell Prompts

Shell	Prompt
C shell	machine_name%
C shell for superuser	machine_name#
Bourne shell and Korn shell	\$
Bourne shell and Korn shell for superuser	#

Accessing the Enterprise Sample

Follow the steps in this chapter to access the Enterprise Sample desktop.

Accessing the Sample Desktop

▼ To Access the Enterprise Sample

- 1 The Enterprise Sample page is available at `http://your-server:port/portal-ID/welcome/`.**
This is the welcome page for Portal Server samples.
- 2 Follow the link on the welcome page.**
The URL will look something like this: `http://your-server:port/portal-ID/dt?desktop.suid=uid=authlessenterprisesample,ou=People,o=EnterpriseSample,dc=your-dc.`
- 3 Login as Mary with password `mary`, Chris with password `chris`, or Ed with password `ed` and observe the difference in the portal content based on their roles.**

Customizing Your Desktop

The Enterprise Sample uses Cascading Style Sheets (CSS) for the Portal Desktop presentation. The Enterprise Sample CSS files are located in the portal data directory *PortalServer-DataDir/portals/portal-ID/web-src/enterprise/css*.

Modify the CSS files according to your platform needs and then, redeploy the portal for the change to take affect.

The following sections contain procedures that illustrate some ways you can make changes in the CSS file:

- “Changing the Logo” on page 13
- “Adding a Background Image” on page 14
- “Changing the Background Color” on page 15
- “Modifying the Color Gradient Image” on page 15

To access the Portal Desktop administration screen, see “[Accessing the Portal Desktop Administration Screen](#)” on page 16.

Changing the Logo

▼ To Change the Logo

1 **Get a suitable image of the logo in the supported format (such as jpeg, gif, png).**

2 **Edit the `body.jsp` file in the**

PortalServer-dataDir/portals/portal-ID/desktop/enterprise_sample/ASCTabContainerProvider/
directory.

Look for the image file name `asc-logo-8.png` in the following code:

```
/enterprise/images/asc-logo-8.png" alt=...
```

Replace this file with your new logo file. For example,

```
logo_sun_small_sdn.gif - /enterprise/images/logo_sun_small_sdn.gif" alt=...
```

- 3 Adjust the dimensions and coordinates of the logo using the standard HTML tags (height, width).**
- 4 Place your logo in the *PortalServer-dataDir/portals/portal-ID/web-src/enterprise/images* directory.**
- 5 Redeploy the Portal Server to the web container.**

To redeploy, type *PortalServer-base/bin/psadmin redeploy --adminuser amAdmin --passwordfile password-filename --portal portal-ID*.

Note – The image must first be placed in the portal web application source directory and then the portal web application should be redeployed. Otherwise, the change may be lost if the portal web application is ever redeployed.

- 6 Verify that the new logo appears as desired by typing the following URL in your browser.**

<http://yourserver:port/portal-ID/dt?desktop.suid=uid=authlessenterprise/sample,ou=People,o=EnterpriseSample,dc=org,dc=com>

Adding a Background Image

▼ To Add a Background Image

- 1 Go to the Enterprise Sample CSS directory located under the portal data directory, *PortalServer-DataDir/portals/portal-ID/web-src/enterprise/css*.**
- 2 Modify the CSS file in the appropriate places**

For example:

```
.channelBackground {  
background-image: url(../images/banner.jpg);  
background-repeat: no-repeat;  
background-position-x: left;  
background-position-y: top;  
border-bottom: 1px solid #9900FF;  
padding-bottom: 2px;  
}
```

```
.channelBackgroundNoBorder {
```

```
background-image: url(../images/your-banner-filename.jpg);
background-repeat: no-repeat;
background-position-x: left;
background-position-y: top;
border-bottom: 1px none #9900FF;
```

Changing the Background Color

▼ To Change the Background Color

- 1 Go to the Enterprise Sample CSS directory located under the portal data directory, *PortalServer-DataDir/portals/portal-ID/web-src/enterprise/css*.
- 2 Modify the CSS file in the appropriate places.

Consider the following example where the `defaultBody` and `altShortBody` have been modified:

```
defaultBody {...
background-color: #your-hex-color-code
}

altShortBody {...
background-color: #your-hex-color-code
}
```

Modifying the Color Gradient Image

The gradient serves as the background color to the channels.

▼ To Modify the Color Gradient Image

- 1 Go to the Enterprise Sample CSS directory located under the portal data directory, *PortalServer-DataDir/portals/portal-ID/web-src/enterprise/css*.
- 2 Modify the CSS file in the appropriate place.

For example, replace the image `channel-gradient-orange.gif` with your new color gradient image.

The following is a listing of the location of JSP and image files for the Enterprise Sample logo and banner.

ASC Logo	Files altShortBody-asc-logo.gif and asc-logo-8.png Located at <i>PortalServer-DataDir/portals/portal-ID/web-src/enterprise/image</i> directory
ASC Banner	File Header-alone-no-logo.jpg Located in <i>PortalServer-DataDir/portals/portal-ID/web-src/enterprise/image</i> directory
ASC Title	File title.jsp Located at <i>PortalServer-DataDir/portals/portal-ID/desktop/enterprise_samp</i>
User Info Form	File anonymous.jsp Located at <i>PortalServer-DataDir/portals/portal-ID/desktop/enterprise_samp</i>
Banner Background Color	<i>PortalServer-DataDir/portals/portal-ID/web-src/enterprise/css</i>
Other Background and Positions	<i>PortalServer-DataDir/portals/portal-ID/web-src/enterprise/css</i>

Accessing the Portal Desktop Administration Screen

▼ To Administer the Enterprise Sample Desktop from the Portal Server Management Console

- 1 Log in to the Portal Server management console as administrator (amadmin).
- 2 Click the Portals tab.
- 3 Click the Portal ID in the Portals list.
- 4 Select Enterprise Sample [Org] from the Select DN list.
- 5 Click Manage Containers and Channels.
You can administer channels and containers used by the Enterprise Sample from this page.

Presenting Information on the Desktop

When you look at the portal desktop, you see a web page with columns and tabs along the top. Each column contains one or more channels (small windows). A channel contains a page that displays a specific type of information (such as news and search).

You can use the tabs to navigate and separate content by categories. Each top level tab can have multiple nested tabs. The Enterprise Sample uses two tabs: Home and My Portal. The Home page has the nested tabs News and Career.

This chapter discusses the following topics:

- “Understanding Channels” on page 17
- “Adding Content to the Desktop Using Channels” on page 19
- “Setting up Channel Menus” on page 21
- “Understanding Tabs” on page 23
- “Categorizing Content Using Tabs” on page 24
- “Displaying Content Using Layout Properties” on page 26
- “Creating a Wiki Container and Channel” on page 30

For detailed information on channels and tabs, see the *Sun Java System Portal Server 7.1 Developer Sample Guide*.

Understanding Channels

To the end user, a channel is a distinct area in the desktop, usually set off with a border and header row of icons. The icons enable users to configure the channel to their preference.

Channels are administered from the Portal Server management console. The management console allows you to create channels from pre-built as well as custom providers and to change channel preferences.

Channels can be implemented either as Providers or Portlets.

Note – A “channel” is a Sun Java System Portal Server specific term. The portlet specification (JSR-168) does not use the term “channel”. Rather, the JSR-168 portlet specification uses the term “portlet window” to refer to a specific use of a portlet.

Desktop Providers

Providers are vertical channels that have a single use and can be reused (multiple channels can be created from a single provider) on a custom portal. Providers are Java class files based on the Provider API that can be used to construct both channels and page containers.

You can use the Portal Server pre-built providers such as JSPProvider, URLScrapperProvider, and XMLProvider to implement channels without the need to write code.

For more information on the Provider API, see *Sun Java System Portal Server 7.1 Developer's Guide*.

JSR-168 Portlets

Portlets function similarly to providers, however they are based on the API defined by the JSR-168 portlet specification.

The Sun Java System Portal Server includes the following sample portlets:

- Notepad Portlet
- JSPPortlet
- Bookmark Portlet
- Weather Portlet

Note – Use the Portal Server management console of command-line utilities to deploy these portlets at the Enterprise Sample organization level.

The advantages to using portlets are as follows:

- Portability. A portlet implemented using only the standard Portlet API and other standard J2EE interfaces, is portable to any JSR168 portlet specification-compliant portlet container.
- Access to developers. As support for the portlet API grows with multiple vendor implementations, more developers are becoming familiar with the API.
- Developer tools. Wider support may be available for developer tools to create portlets.
- Web application integration. The portlet API is based on the Servlet API, making it is easier to integrate portlets with servlets and other standard web application components.

Note – For more information on the portlets, see *Sun Java System Portal Server 7.1 Developer's Guide*.

Adding Content to the Desktop Using Channels

Portal administrators can add content to the portal desktop by adding provider and portlet channels. The following procedures discuss how to create a channel, modify its properties, add it to the desktop and then verify that it is being displayed.

Suppose you want to create a channel, named MyChannel, that displays content from an external web page (for example, <http://www.google.com>).

Use the following procedures:

- [“Creating a URLScrapper Channel” on page 19](#)
- [“Editing the Channel Properties” on page 20](#)
- [“Verifying that the URLScrapper Channel Displays on the Desktop” on page 20](#)

Creating a URLScrapper Channel

▼ To Create a URLScrapper Channel

The following steps show how to create a URLScrapper channel. The same steps can be followed to create other Provider based and Portlet based channels.

- 1 **Login to the Portal Server management console as administrator** (amadmin).
- 2 **Click the Portals tab.**
- 3 **Click the *Portal-ID* in the Portals list.**
- 4 **Select Enterprise Sample [Org] in the Select DN list.**
- 5 **Click Manage Containers and Channels.**
By default, the View Type is set to ASCTabContainer [Default].
- 6 **Click NewsContainer.**
- 7 **Click New Channel or Container in the NewsContainer page.**

- 8 In the New Channel or Container wizard, specify the following and click Close after the channel or container has been successfully created.
 - a. Select Portal: *portal-ID*, DN: Enterprise Sample [Org], and Type: Channel and click Next.
 - b. Select radio button Provider Channel for Channel Type and click Next.
 - c. Select the URLScrapperProvider from the Provider drop down list
 - d. Specify Channel or Container Name (for example, MyChannel) in the text field and click Next.
 - e. Review the settings and click Finish.

The channel is now available and visible in the Enterprise Sample News tab and by default, is set to be available and selected.

Editing the Channel Properties

▼ To Edit the Channel Properties

- 1 Click MyChannel under the NewsContainer.
- 2 In the MyChannel tasks and properties page, edit the following properties:

url	Change this property to a valid URL such as <code>http://www.google.com</code> .
title	Change this property value to the title you want to display on the channel title bar. For example, My Channel.
description	Change this property value to a small description of the channel. For example, This is a test channel.
- 3 Click Save.

Verifying that the URLScrapper Channel Displays on the Desktop

▼ To Verify that the URLScrapper Channel Displays on the Desktop

After you have added the channel to your desktop, verify that it is visible.

- 1 Access the Enterprise Sample anonymous portal.

2 Login as mary with the password mary.

The MyChannel displays in the center column.

Setting up Channel Menus

The Enterprise Sample allows users to personalize their portal content in a number of ways such as, adding or removing channels, modifying the layout of the Portal Desktop, and customizing the presentation of each channel. The last item - customizing the presentation of each channel - can be done using the channel menu which appears as a pull down menu. To activate the menu, click the menu on the inverted triangle at the right top corner of each channel.

By default, each channel menu has the following options:

Show full page view	Makes the current channel as the only visible channel on the desktop. All other channels on the desktop are hidden. The full page state can be removed by clicking on the “Show normal view” option in the channel menu.
Show title bar only	This is similar to the minimized state of a window. In this state, only the title bar of the channel displays. The content of the channel is not fetched. Users can use this option to stack up a number of channels on the desktop and view the content of each channel selectively. The minimized state can be reversed by clicking on Show normal view option in the channel menu.
Show in new window	Detaches a channel from the desktop and shows it in a new popup browser window. The detached channel can be reattached to the desktop by clicking Close Channel in the detached channel’s menu.
Remove channel	Allows the user to remove a channel from the desktop. The channel can be restored on the desktop by reselecting it for display from the Page Content & Layout page.
View channel help	Displays channel help.

Channel Menu Design

The channel menu is implemented using DHTML layers. The Javascript API for creating and manipulating menus is implemented in `popup.js` which can be found at `PortalServer-DataDir/portal/portal-ID/web-src/enterprise/js` directory. This is the deployed copy of the Javascript file. Any changes to this file should be made here. Then redeploy Portal Server using `PortalServer-base/bin/psadmin redeplo` (Solaris) command.

The menu Javascript API provides methods to create new menus, add menu items, and specify actions for each menu item.

Customizing the Channel Menu

The channel menu for the Enterprise Sample can be customized to add new menu items or remove menu items. Customizing the channel menu requires modification of JSP files shipped in the JSPTableContainerProvider located, by default, in the *PortalServer-DataDir/portal/portal-ID/desktop/enterprise_sample/JSPTableContainerProvider* directory. The menu for channels displayed in the desktop is created in `channelMenubar.jsp` file. The menu for the channels in the popup window state is created in `popupChannelMenubar.jsp` file. Any modifications to the channel menu should be made in both the above files so that the changes are reflected in regular desktop channels as well as in the popup channels.

- To create a new pull down menu from a JSP file

```
window.<%=channelName% >= new Menu();
```

Note – The variable, *channelName*, is a string that contains the unique name of the channel. This is required so that each channel menu has a unique identifier. Menu items can be added using the `addItem(String name, String action)` method.

- To add items which are not links

```
window.<%=channelName%>.addItem("&#8212;&nbsp;Channel Menu&nbsp;&#8212;");
```

- To add menu items with an associated action

```
window.<%=channelName%>.addItem("Update Channel", "location='<dtpc:getDesktopURL pathinfo=\"$pathInfo\"/>'");
```

Note – The above line shows how to add a menu item that redirects the browser to a different location when clicked.

- To add a menu item that will open a popup window when clicked

```
window.<%=channelName%>.addItem("Attach Channel",onClick="openUrlInParent(<dtpc:getDesktopURL/>?action=process&p  
windowClosed(window.name);  
window.close();");
```

Similar Javascript actions can be associated with each menu item. Actions are invoked when you click on the menu item. Here are some examples.

- To add menu item separators use `addMenuSeparator()` method. For example:

```
window.<%=channelName%>.addMenuSeparator();
```

- To modify the appearance and operations, customize the following properties:

```
window.<%=channelName%>.fontColorHilite = "#FFFFFF";
window.<%=channelName%>.menuHiliteBgColor = "#F68947";
window.<%=channelName%>.disableDrag = true;
```

- To invoke the menu:

```
<a href="javascript:/" onClick="showMenu(window.<%=channelName%>);" title=" Click to view or modify channel o
```

Note – In the above example, when you click an image, the pull down menu displays. You may have to delete the compiled JSP class cache under *PortalServer-DataDir/portal/portal-ID/desktop/compiled* directory to force recompilation of the changed JSPs.

Understanding Tabs

You can use tabs to categorize the information on your desktop. A tab is a web page. Each top level tab can have multiple nested tabs. The Enterprise Sample uses two tabs: Home and My Portal. The Home page has the nested tabs News and Career.

Every page is either one of the following:

ASCTabContainer	The framework that displays tabs. It can hold nested tabs.
ASCTableContainer	The framework that displays the rows and columns for a particular tab.

Before you can display the information within a channel, a tab and table container must be defined.

The Adventure Sports Cafe home page is a tab, and the News tab is nested within. A tab may specify a set of providers and/or portlets that it may contain. The home page consists of a type of table container which has a three column layout (thin, wide, thin).

Categorizing Content Using Tabs

The following procedures illustrate how to create and display information:

- “Creating a New Top-level Tab” on page 24
- “Changing Tab Properties” on page 25
- “Creating a Nested Tab” on page 25

Creating a New Top-level Tab

▼ To Create a New Top-level Tab

This procedure creates a new tab container by the name MyTabContainer and adds it to the list of Containers on the Portal Desktop administration page.

- 1 **Login to the Portal Server management console as administrator** (amadmin).
- 2 **Click the Portals tab and click *Portal-ID* in the list of portals.**
- 3 **Select Enterprise Sample in the drop down list for Current Location.**
- 4 **Click the Manage Containers & Channels link.**
- 5 **In the left side frame, select ASCTabContainer in the View Type drop down list.**
- 6 **Select New Channel or Container link in the right side frame.**

A popup window displays with a wizard to guide you through the steps for creating a new container.

- a. **Ensure that the correct values are selected for the portal and DN in the popup window. Select the Container radio button and click Next.**

A message displays indicating successful creation of the container.

- b. **Select ASCTabContainerProvider from the Container Provider drop down list and click Next.**
 - c. **Provide a unique name for the container. For example, MyTabContainer.**
 - d. **Verify the information and click Close.**
- A message displays indicating successful creation of the container.

- 7 **Select the link Show or Hide Channels and Containers on Portal Desktop link.**
Ensure that the newly created container is listed in the list of containers Visible on the Portal Desktop list.
- 8 **Verify the information and click Close to the Portal management page.**

Changing Tab Properties

▼ To Change Tab Properties

- 1 **Click MyTabContainer under ASCTabContainer.**
- 2 **Change the description and title to My Top Level Tab and MyTab respectively in the Edit properties form.**
- 3 **Click Save to save the changes and return to the Portal administration page.**
The newly created tab, MyTab, has no content. To add content to this tab, add another nested tab to MyTab.

Creating a Nested Tab

▼ To Create a Nested Tab

The nested tab is an aggregation of channels, so it is created as a JSPTabContainerProvider.

- 1 **Login to the Portal Server administration console as administrator (amadmin).**
- 2 **Click the Portals tab and click on My Portal in the list of portals.**
- 3 **In the drop down list for Current Location select Enterprise Sample.**
- 4 **Click the Manage Containers & Channels link.**
- 5 **In the left side frame, select ASCTabContainer/MyTabContainer in the View Type drop down list.**
- 6 **In the right side frame, Click on New Tab to launch the tab creation wizard.**

- 7 In the pop up wizard window, do the following.
 - a. Ensure that the values selected for Portal and DN are correct and click Next.
 - b. Specify the properties for the new tab. The Tab Name property value has to be unique across all containers. Leave the Removable property as selected, and click Next.
 - c. Ensure that the {Parent Tab Container value is set to ASCTabContainer/MyTabContainer. Select the appropriate radio button for Would you like to add content to the new tab? and click Next.
 If you opted to add content to the new tab, select channels to be displayed on the tab from the list of channels. Multiple channels (e.g., SampleXML) can be selected. Ensure that the Visible on Users Desktop option is selected.
 - d. Verify that you have entered the correct information and click Next.
- 8 Click Finish.

Displaying Content Using Layout Properties

You can change the layout of columns by modifying their layout properties. The layout of the columns is determined by a numeric value you assign for each table container. Every channel can be assigned a thickness: thin or wide. All the thin and wide channels are then aggregated by the containers and displayed according to the selected channel layout.

Changing the Width and Number of Columns

The numeric value for the layout is unique and is used as the value for the layout property of the container. [Table 3-1](#) shows the numeric values associated with the number of columns and their widths.

TABLE 3-1 Column Layout

Layout	Number of Columns	Numeric value
Thin - Wide	Two	1
Wide - Thin	Two	2
Thin - Wide - Thin	Three	3

The default layout of the NewsContainer is Thin - Wide - Thin. The Enterprise Sample defines column widths as `layout=3` (Thin-Wide-Thin). To extend support for more layouts, refer to “Adding New Layouts” on page 27.

▼ To Change the Width and Number of Columns of a Nested Tab

- 1 Login to the Portal Server administration console as administrator (`amadmin`).
- 2 Click the Portals tab and click on the portal-ID in the list of portals.
- 3 Select Enterprise Sample from the drop down list for Current Location.
- 4 Click the Manage Containers & Channels link.
- 5 Select NewsContainer in the left side frame.
- 6 Change `layout` property to a new numeric value (refer to layout table for valid values).
- 7 Click Save to save the changes.

▼ To Verify that the Layout Properties Are Changed

- 1 Access the Enterprise Sample anonymous portal.
- 2 Login as Mary with the password `mary`.
The new layout for NewsContainer displays.

Adding New Layouts

The Enterprise Sample relies on the CSS file for positioning of channels on the page. When creating new layouts or modifying existing layouts, review the Enterprise Sample CSS files under `/var/opt/SUNWportal/portals/portal-ID/web-src/enterprise/css`.

The various CSS file are available and are selected based on client browser type and client operating system. The CSS file selection logic can be found in `writeCSS` function in `/var/opt/SUNWportal/portals/portal-ID/web-src/enterprise/js/util.js`.

▼ To Add New Layouts

The Enterprise Sample supports `layout=3` (THIN-WIDE-THIN) layout.

You can extend the code to support multiple layouts by modifying the `table.jsp` file in `/var/opt/SUNWportal/portals/portal-ID/desktop/enterprise_sample/JSPTableContainerProvi` directory.

- **Replace the code in the `table.jsp` Listing 1 with the code in Listing 2.**

Listing 1

```

<!-- Begin Left Column of Channels -->
<div class="tableContainerColumnLeft">
<dttable:getColumns id="channels" column="left" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="center"/>
</jsp:include>
</div>
<!-- End Left Column of Channels -->

<!-- Begin Middle Column of Channels -->
<div class="tableContainerColumnCenter">
<dttable:getColumns id="channels" column="center" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="center"/>
</jsp:include>
</div>
<!-- End Middle Column of Channels -->

<!-- Begin Right Column of Channels -->
<div class="tableContainerColumnRight">
<dttable:getColumns id="channels" column="right" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="center"/>
</jsp:include>
</div>
<!-- End Right Column of Channels -->

```

Listing 2

You can find the original code in

`/var/opt/SUNWportal/portals/portal-ID/desktop/enterprise_sample/JSPTableContainerProvider/`
starting at Line # 78

```

<dtpc:getIntegerProperty key="layout" id="layout"/>
<jx:declare id="layout" type="Integer"/>

<!-- start table-container -->
<% if (layout == 1) { %>
<!-- THIN-WIDE layout -->
<!-- Begin Left Column of Channels -->
<div class="tableContainerColumnLeft">
<dttable:getColumns id="channels" column="left" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="left"/>
</jsp:include>
</div>

```

```

<!-- End Left Column of Channels -->

<!-- Begin Right Column of Channels -->
<div class="tableContainerColumnCenter">
<dttable:getColumns id="channels" column="right" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="center"/>
</jsp:include>
</div>
<!-- End Right Column of Channels -->

<% } else if (layout == 3) { %>
<!-- THIN-WIDE-THIN layout -->
<!-- Begin Left Column of Channels -->
<div class="tableContainerColumnLeft">
<dttable:getColumns id="channels" column="left" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="left"/>
</jsp:include>
</div>
<!-- End Left Column of Channels -->

<!-- Begin Middle Column of Channels -->
<div class="tableContainerColumnCenter">
<dttable:getColumns id="channels" column="center" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="center"/>
</jsp:include>
</div>

<!-- Begin Right Column of Channels -->
<div class="tableContainerColumnRight">
<dttable:getColumns id="channels" column="right" scope="request"/>
<jsp:include page="column.jsp" flush="true">
<jsp:param name="columnName" value="right"/>
</jsp:include>
</div>
<!-- Begin Right Column of Channels -->

<% } else if (layout == 4) { %>
<!-- Add custom layout here -->
<% } %>
</div><!-- end table-container -->

```

Redeploy the portal web application using the utility: `/opt/SUNWportal/bin/psadmin redeploy --adminuser amAdmin --passwordfile password-filename --portal portal-ID`.

Creating a Wiki Container and Channel

This section helps you to create a subtab title “My Wiki” under the My Portal tab with a wiki channel. The portlet is available to the employees of your organization and they can start collaborating through the wiki features.

The following procedures are described in this section:

- “To Create a Wiki Container” on page 30
- “To Edit the Wiki Container Properties” on page 31
- “To Create the Wiki Channel” on page 31

▼ To Create a Wiki Container

- 1 Login to the Portal Server administration console as administrator (amadmin).
- 2 Click the Portals tab.
- 3 Click the *portal-ID* in the Portals list.
- 4 Select Enterprise Sample [Org] in the Select DN list.
- 5 Click Manage Containers and Channels.
- 6 Click MyPortalContainer under ASCTabContainer.
- 7 Click New Channel or Container in the MyPortalContainer Task and Properties page.

In the New Channel or Container wizard, specify the following:

- a. Select Portal: *portal-ID*
- b. Select DN: Enterprise Sample [Org]
- c. Type Container.
- d. Container Provider: DynamicAggregationContainerProvider
- e. Channel or Container Name: WikiContainer

The Container is now available for use

▼ To Edit the Wiki Container Properties

- 1 Click **WikiContainer** under **MyPortal Container**.
- 2 In the **WikiContainer tasks and properties** page, modify the desired property values.
For example you might want to change the channel title to **My Wiki**.
- 3 Click **Save**.

▼ To Create the Wiki Channel

- 1 Click **WikiContainer** under **MyPortalContainer**.
- 2 Click **New Channel or Container** In the **WikiContainer Tasks and Properties** page.
- 3 In the **New Channel or Container wizard**, specify the following:
 - a. Select **Portal**: *portal-ID*.
 - b. Select **DN**: **Enterprise Sample [Org]**.
 - c. **Type**: **Channel**.
 - d. **Channel Type**: **JSR 168 Portlet Channel**.
 - e. **Portlet**: **wiki.WikiPortlet**.
 - f. **Channel or Container Name**: **Wiki**
The Enterprise Sample now has a new subtab “My Wiki” under the My Portal tab that contains the wiki channel.

Setting Up and Accessing an Anonymous Portal

The Enterprise Sample installs with a functional anonymous portal that allows unauthenticated users access to information in the Portal Desktop before logging in to the Enterprise Sample.

This chapter discusses:

- “Setting Up an Anonymous Portal” on page 33
- “Accessing the Anonymous Portal” on page 36

Setting Up an Anonymous Portal

To setup an anonymous portal, you need to do the following:

- Configure the Portal Desktop to work in authentication-less mode
- Create a user account
- Assign the user account responsibility for anonymous portal content

For complete information on configuring anonymous authentication for the Portal Server, refer to the section “Administering Authentication, Users, and Services” in the *Sun Java System Portal Server 7 Configuration Guide*.

The organization `EnterpriseSample` referenced below is available after the Enterprise Sample has been installed.

The following procedures are described in this section:

- “Creating an Anonymous Portal” on page 34
- “Configuring the Portal Desktop for the Anonymous Portal” on page 34
- “Setting Up the Anonymous Portal Desktop” on page 35

Creating an Anonymous Portal

▼ To Create an Anonymous Portal

- 1 **Login to the Access Manager administration console as administrator** (`amadmin`).

By default, when you log in, Identity Management is selected in the location pane, and Organizations is selected in the Navigation pane.

- 2 **Select the EnterpriseSample organization.**
- 3 **Use the View menu in the navigation pane and select Users.**
- 4 **Create a user account by clicking on New....**

For example, create the user account `siroeauthless` as follows.

- a. **Select the *portal-ID* desktop service and any other services required for this user in the list of Available Services and click next.**
- b. **Specify the following settings for the User and click Finish.**

User ID	<code>siroeauthless</code>
First Name	<code>siroeauthless</code>
Last Name	<code>siroeauthless</code>
Full Name	<code>siroeauthless</code>
Password	<code>siroeauthless</code>
User Status	<code>active</code>

The Enterprise Sample creates the user `siroeauthless`.

Configuring the Portal Desktop for the Anonymous Portal

▼ To Configure the Portal Desktop for the Anonymous Portal

- 1 **Login to the Portal Server administration console as administrator** (`amadmin`).
- 2 **Click the Portals tab**

- 3 Click the *portal-ID* in the Portals list
- 4 Select TopLevel [Global] from the Select DN list
- 5 Specify the fully distinguished name (DN) and password for the Anonymous User in the Valid UIDs for Anonymous Desktop list.

For example:

- a. Select Add and specify the following:

User DN uid=siroeauthless,ou=People,o=EnterpriseSample,<rootsuffix>

Password siroeauthless

- b. Click save.

Note – You must save for the changes to take affect.

The Enterprise Sample adds the siroeauthless user to the list.

- 6 Set the Default User DN for anonymous user.

The Default User DN determines which Anonymous Portal the end user is directed to by default. To set the default user DN for siroeauthless anonymous user:

- a. Select (click the checkbox) next to the siroeauthless entry.
- b. Click the Set as Default button.

Note – You must save the changes.

- 7 Restart the web container for the changes to take affect.

Setting Up the Anonymous Portal Desktop

▼ To Setup the Anonymous Portal Desktop

- 1 Login to the Portal Server administration console as administrator (amadmin).
- 2 Click the Portals tab.
- 3 Click the *portal-ID* in the Portals list.

4 Select siroeauthless [User] in the Select DN list.

If the user does not exist in the Select DN list, then click Add DNs to add the user to the list.

5 Click Manage Containers and Channels to setup the Anonymous Portal's Containers and Channels.

6 Restart the web container for the changes to take affect

Accessing the Anonymous Portal

A user is directed to the anonymous portal if the user does not have a valid Access Manager session and the Portal Desktop has been configured for Anonymous support. The anonymous portal that the user is directed to is determined by the URL parameter:

`desktop.suid`

If this parameter is not present in the Portal Desktop request then the user is directed to the default anonymous portal. Otherwise, the user is directed to the anonymous portal based on the user account specified by the parameter. For example, the anonymous Enterprise Sample could be directly accessed with the URL:

`http://siroe.com/portal/dt?
desktop.suid=uid=siroeauthless,ou=people,o=EnterpriseSample,dc=siroe,dc=com`

Presentation Templates

You can define error pages for your Portal Server desktop by using the Enterprise Sample template error pages defined in the table below. Each error page specifies the company branding and logout URL.

This chapter contains sections describing the following procedures:

- “Error Page Templates” on page 37
- “Using the Sample Template” on page 38
- “Defining the Login Failed Page” on page 38
- “Defining the Logout Page” on page 39

Error Page Templates

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/error.template
General Portal Desktop error.

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/noneditablechannel.template
End user session has timed out or attempting to edit a non-editable channel.

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/noprivilege.template
End user does not have permission to access the Portal Desktop.

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/unknownchannel.template
End user is attempting to access a channel that is not defined.

Using the Sample Template

▼ To Use Sample Templates

- 1 Copy the Enterprise Sample templates from *PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/* to your custom directory under *PortalServer-DataDir/portals/portal-ID/desktop* and only modify the templates in the custom directory.**

Copy all the templates and JSP files from the sample directory to your custom directory before changing the portal desktop type service attribute.
- 2 Login to the Portal Server management console as administrator (amadmin).**
- 3 Click the Portals tab.**
- 4 Click the *portal-ID* in the Portals list.**
- 5 Select EnterpriseSample [Org] in the Select DN list.**
- 6 Modify the Desktop Type setting with your custom directory name.**

This field supports a comma separated list of values.
- 7 Select Save.**

Defining the Login Failed Page

▼ To Define the Login Failed Page

You can specify a custom login failed page when a user fails to authenticate to Portal Server.

- 1 Login to the Access Manager console as administrator.**

By default, when you log in, Identity Management is selected in the location pane, and Organizations is selected in the Navigation pane.
- 2 Select the EnterpriseSample organization.**
- 3 Select Services from the View menu.**
- 4 Click the properties icon arrow next to Core under Authentication Modules.**

5 Specify the login failed URL for the Default Failure Login URL.

The Enterprise Sample specifies the default login failure URL for the AdventureSports Cafe as `http://siroe.com/portal/dt?loginfailed=true`. The JSP file that determines what to do with a login failure is

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/ASCTabContainer/anonymous.jsp

6 Customize the anonymous.jsp file in

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/ASCTabContainer directory.

Defining the Logout Page

▼ To Define the Logout Page

You can specify a custom logout page for users when they log out of the portal. This is accomplished by using the Access Manager Logout service with the `goto` parameter specified for the custom logout page. The Enterprise Sample uses this approach when a user logs out of the portal to redirect to the anonymous portal.

1 Navigate to the directory

/var/opt/SUNWportal/portals/portal-ID/desktop/enterprise_sample

2 Edit the `logout.jsp` file.

For example:

```
onClick="location.href='/amsserver/UI/Logout?goto=/logout.html'"
```

The Enterprise Sample specifies the custom logout page in the following files:

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/logout.jsp

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/error.template

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/noneditablechannel.template

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/noprivilege.template

PortalServer-DataDir/portals/portal-ID/desktop/enterprise_sample/error/unknownchannel.template

Setting up the Communications Tab

This chapter contains the following:

- “Introduction to Communication Services” on page 41
- “Installing the Enterprise Sample Portal Communications Tab” on page 42

Introduction to Communication Services

The Communications tab available with the Enterprise Sample showcases the Java Enterprise System Communication Services.

Communication Products

The Communication Services are presented in the desktop through a series of channels that retrieve and display content from the following Communication products:

- Sun Java™ System Calendar Server 6.3
- Sun Java System Messaging Server 6.3
- Sun Java System Instant Messaging 7.2
- Sun Java System Communications Express 6.3

Communications Tab Channels

Address Book	Displays a list of contacts and launches the Communications Express client
Calendar	Displays a list of today's events and launches the Communications Express client
Find an Employee	Search for employees

Instant Messaging	Displays online contacts and launches the Instant Messenger client
Mail	Displays mail messages and launches the Communications Express client
Tasks	Displays tasks, including overdue tasks, and launches the Communications Express client

Limitations and Dependencies

The communications tab cannot be configured on BEA Weblogic and IBM WebSphere. The Delegated administrator `commadmin` utility only supports Sun Java System Application Server and Sun Java System Web Server. The Delegated Administrator server and console must be deployed to the same web container. The Enterprise Sample Communications tab setup is dependent on the Delegated Administrator Utility and the Enterprise Sample configuration will only succeed if the following products are installed together on the same host:

Web Server or Application Server
Sun Java System Access Manager
Delegated Administrator (includes Delegated Administrator `commadmin` utility)
Portal Server

Installing the Enterprise Sample Portal Communications Tab

The Communications tab must be installed by the administrator after the Enterprise Sample has been installed and the Installation Prerequisites have been completed.

Installation Prerequisites

The Enterprise Sample Communications tab setup is dependent on the Delegated Administrator Utility, specifically the `commadmin` command line utility. The Delegated Administrator Utility is a Java Enterprise System supported mechanism for granting Domain and User level mail and calendar privileges. Please refer to *Sun Java System Delegated Administrator 6.4 Administration Guide* for more information.

The portal host must contain the following Java Enterprise System installed and configured products:

- Sun Java System Access Manager
- Sun Java System WebServer OR Application Server
- Sun Java System Delegated Administrator Utility

- Sun Java System Portal Server 7.1

In addition, the following products need to be installed and configured and may exist on a different host than Portal Server:

- Sun Java System Directory Server
- Sun Java System Calendar Server 6.3
- Sun Java System Messaging Server 6.3
- Sun Java System Message Queue 3 Enterprise Edition
- Sun Java System Instant Messaging 7.2
- Sun Java System Communications Express 6.3

The Communication Products (Messaging Server, Calendar Server, Delegated Administrator, Instant Messaging Server, and Communications Express) need to be configured for:

- Access Manager Single Sign-On (SSO) support
- Hosted Domain support

Installing the Communications Tab

The Communications tab is, by default, installed under the My Portal tab in the Enterprise Sample portal desktop. The Communications tab must be installed by the administrator using ant.

▼ To Install the Communications Tab

1 Copy the sample portal configuration files to a custom directory.

The Enterprise Sample Communications tab setup depends on the following files:

- `input.properties`
- `password.properties`
- `comms.properties`

Copy the template files from *PortalServer-base/samples/portals/shared* directory to a custom directory, remove the `.template` extension, and substitute the tokens in each file. For example, type:

```
mkdir /tmp/mydir
cp /opt/SUNWportal/samples/portals/shared/password.properties.template
  /tmp/mydir/password.properties
cp /opt/SUNWportal/samples/portals/shared/comms.properties.template
  /tmp/mydir/comms.properties
cp /opt/SUNWportal/samples/portals/shared/input.properties.template
  /tmp/mydir/input.properties
OR
```

```
cp /var/opt/SUNWportal/tmp/input.properties /tmp/mydir/input.properties
```

2 Specify values for the following files:

`input.properties` Edit the `input.properties` file and replace all the tokens that begin and end with % with the appropriate portal settings.

Note – When the portal is configured, a populated `input.properties` file is available at `PortalServer-DataDir/tmp/` directory.

`password.properties` Edit the `password.properties` file and replace all the tokens that begin and end with % with the appropriate administrator password value.

`comms.properties` Edit the `comms.properties` file and replace all the tokens that begin and end with % with the appropriate Communication Server setting.

If all Java Enterprise System products have been installed on a single host, then there is a helper ant script to gather the Communication Product's information and generate the `comms.properties` file. The helper ant script, `PortalServer-base/samples/portals/enterprise/singleHostGatherComm` usage is:

```
ant -buildfile
/opt/SUNWportal/samples/portals/enterprise/singleHostGatherCommConfig.xml
-Doutput.location=outputlocation
```

Where

<code>ant</code>	Refers to the ant script.
<code>outputlocation</code>	Refers to the location of the generated <code>comms.properties</code> file.

For example:

```
/usr/sfw/bin/ant -buildfile
/opt/SUNWportal/samples/portals/enterprise/singleHostGatherCommConfig.xml
-Doutput.location=/tmp/mydir
```

This command will generate the `comms.properties` file in the directory specified by the `output.location`. Please review the settings in the `comms.properties` file before installing the communications tab.

3 Run the ant script to install the Communications tab.

This step installs or configures the Communications tab in the Enterprise Sample. The result of this step is a fully configured Communications tab with sample data for each channel: address book, mail, tasks, calendar, and instant messaging.

To install, execute the command:

```
ant config_comms -buildfile
PortalServer-base/samples/portals/enterprise/build.xml
-Dconfig.location=configlocation
-logfile logfile
```

where

ant Refers to the ant script.

configlocation Refers to the location (directory) of the `password.properties` and `comms.properties` files.

logfile Refers to the location of the generated ant logfile.

For example, type:

```
/usr/sfw/bin/ant config_comms -buildfile
/opt/SUNWportal/samples/portals/enterprise/build.xml
-Dconfig.location=/tmp/mydir -logfile /tmp/comms.log
```

4 Restart the web container.

At this point, the Communications tab is configured on the Enterprise Sample desktop under the My Portal tab.

Installing the Enterprise Sample

The Enterprise Sample requires that all Sun Java™ System products (with the possible exception of the Directory Server) reside on the same machine. The Directory Server can reside either on the same host or on a separate host.

The Enterprise Sample is installed using `ant`, a Java based build tool, and a set of `ant` scripts installed by Portal at *PortalServer-base/samples/portals*.

To install the Enterprise Sample, do the following.

1. Create a custom directory for the Enterprise Sample.
For example, type `mkdir /tmp/mydir`.
2. Copy the sample configuration files `input.properties` and `password.properties` in *PortalServer-base/samples/portals/shared* to the directory you just created.
For example, copy the
PortalServer-base/samples/portals/shared/input.properties.template to
/tmp/mydir/input.properties and copy
PortalServer-base/samples/portals/shared/password.properties.template to
/tmp/mydir/password.properties. When copying, remove the `template` extension.
3. Edit the `input.properties` file and replace all the tokens that begin and end with `%` with the appropriate Portal Server settings.
4. Edit the `password.properties` file and replace tokens that begin and end with `%` with the appropriate administration password value.
During the Portal Server software installation, if any sample was installed, a default `input.properties` file is placed in *PortalServer-DataDir/tmp* directory.
5. Use `ant` to install the Enterprise Sample.
For example, type `ant -buildfile samplebuildfile -Dconfig.location=configlocation -logfile logfile` where

ant Refers to the `ant` script at `/usr/sfw/bin/ant`.

<i>samplebuildfile</i>	Refers to the sample portal build file.
<i>configlocation</i>	Refers to the location (directory) of the password.properties and input.properties files.
<i>logfile</i>	Refers to the location of the generated ant log file.

For example, to install only the Enterprise Sample, type `/usr/sfw/bin/ant -buildfile /opt/SUNWportal/samples/portals/enterprise/build.xml -Dconfig.location=/tmp/mydir -logfile /tmp/mydir/enterprise_sample_install.log`.

Note – The Secure Remote Access post installation steps in Chapter 6, “Installing and Configuring a Gateway With Portal Server,” in *Sun Java System Portal Server 7.1 Configuration Guide* must be performed in order for the Enterprise Sample to work correctly through the gateway. See also, [Chapter 6](#).
