

# Sun Java™ System Technical Note: Getting Started with Enterprise Sample Portal 1.1

Part Number 819-3629-10

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The Enterprise Sample Portal is a business portal based on a fictitious company named Adventure Sports Café. The Enterprise Sample Portal showcases key features of the Sun Java™ System Portal Server. The Enterprise Sample installer creates a default organization in Directory Server (o=adventuresportscafe.com) and adds three users with different roles to highlight some of these basic features.

This technical note describes how to install and customize the Enterprise Sample Portal using the Sun Java™ System Access Manager administration console and cascading style sheets. This technical note contains the following sections:

- “Installing the Enterprise Sample Portal” on page 1
- “Customizing Your Portal” on page 3
- “Presenting Information on the Desktop” on page 7
- “Setting Up an Anonymous Portal” on page 14
- “Presentation Templates” on page 16
- “Fixing the tabLevel property bug” on page 18
- “Adding New Layouts” on page 20
- How to Report Problems and Provide Feedback
- Additional Sun Resources

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## Installing the Enterprise Sample Portal

This section describes how to install and access the Enterprise Sample Portal on Portal Server 6.

The Enterprise Sample Portal 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.

## ► To Install the Enterprise Sample Portal

1. Ensure that the, LDAP Directory, Access Manager, and Sun Java System JES2005Q1 or JES2005Q4 Webserver or Sun Java System Application Server, version are started.

2. Create a custom directory.

For example:

```
mkdir my_enterprise_sample
```

3. Change directory to your custom directory.

For example:

```
cd my_enterprise_sample
```

4. Download the Enterprise Sample Portal version 1.1 from:

<http://www.sun.com/download/products.xml?id=42b76ac9>

You can also download the Sun Java System Portal Server 6 Enterprise Sample Portal Installation Guide from:

<http://docs.sun.com/source/819-4160/index.html>

5. unzip the enterprise\_sample file.

For example:

```
unzip enterprise_sample.zip
```

6. Run the setup program.

```
./setup
```

7. Select Install Enterprise Sample when the application offers the following options:

1) Install Enterprise Sample

2) Quit

## ► To Access the Enterprise Sample Portal

1. The Enterprise Sample Portal page is available at: <http://your-server:port/portal/welcome/>.

This is the welcome page and introduction to Adventure Sports Café.

2. Follow the links to login -> Download and Install -> Login to the Adventure Sports Café. The URL will look something like this:

```
http://your-server:port/portal/dt?desktop.suid=uid=ascauthlessanonymous,ou=People,o=adventuresportscafe.com,dc=your-dc,dc=your-organization,dc=com&provider=ASCTabContainer
```

3. Login as Mary, Chris, or Ed and observe the difference in the portal content based on their roles. The password for these user accounts is "ascsample".

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**NOTE** This may change in later versions. The password may become the same as the user ID.

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If you choose to provide a different organization name, select the name in accordance with the Access Manager naming attributes.

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## Customizing Your Portal

The following procedures, based on the Enterprise Sample Portal, show you how to change the logos and default customizations:

- “To Change the Logo” on page 3
- “To Modify the Color Gradient Image” on page 5
- “To Add a Background Image” on page 4
- “To Change the Background Color” on page 5

## 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 following file:  
`/etc/opt/SUNWps/desktop/asc/JSPTabContainerProvider/body.jsp`
3. Change the image file name `asc-logo-8.png` to your new image logo file name.

4. Place your image in your new Enterprise Sample Portal directory under the portal web application source directory.

On Solaris this directory is `/opt/SUNWps/web-src/asc/images`.

For example:

```
cp my-image.jpg /opt/SUNWps/web-src/asc/images
```

5. Redeploy the portal web application for the new Enterprise Sample Portal image so that it is available to the Portal Desktop.

Note: This ensures that the change is not lost if the portal web application is ever redeployed.

For example:

```
/opt/SUNWps/bin/redeploy
```

The changes should now be visible.

6. Go to the site `http://your-server:port/portal/welcome/` and verify that the new logo appears as desired.

## Changing the Presentation Theme

The Enterprise Sample Portal uses Cascading Style Sheets (CSS) for the Portal Desktop presentation. The CSS files are located in the Enterprise Sample Portal CSS directory under the portal web application source directory. On Solaris, this directory is `/opt/SUNWps/web-src/css`.

After modifying a CSS file, the portal web application must be redeployed for the change to take affect.

The following procedures illustrate some ways you can make changes in the CSS file.

- “To Add a Background Image” on page 4
- “To Change the Background Color” on page 5
- “To Modify the Color Gradient Image” on page 5

### ► To Add a Background Image

1. Go to the Enterprise Sample Portal CSS directory located under the portal web application source directory.
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-file-name.jpg);
background-repeat: no-repeat;
background-position-x: left;
background-position-y: top;
border-bottom: 1px none #9900FF;
```

### ► To Change the Background Color

1. Go to the Enterprise Sample Portal CSS directory located under the portal web application source directory.
2. Modify the CSS file in the appropriate places.

For example:

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

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

### ► To Modify the Color Gradient Image

1. Go to the Enterprise Sample Portal CSS directory located under the portal web application source directory.

2. Modify the CSS file in the appropriate place.

For example:

Replace the image `channel-gradient-orange.gif` with your new color gradient image.

Table 1 shows the location of JSP and image files for the Enterprise Sample Portal logo and banner.

**Table 1** Location of JSP and Image Files

Element	Name/File	Location
ASC Logo	altShortBody-asc-logo.gif; asc-logo-8.png	/etc/opt/SUNWps/desktop/asc/JSPTa bContainerProvider/body.jsp; /etc/opt/SUNWps/desktop/asc/body.j sp; /etc/opt/SUNWps/desktop/asc/error/ noneditablechannel.template; /etc/opt/SUNWps/desktop/asc/error/ noprivilege.template; /etc/opt/SUNWps/desktop/asc/error/ unknownchannel.template; /etc/opt/SUNWps/desktop/asc/Idenit yServerAuth/login_failed_template.jsp; /etc/opt/SUNWps/desktop/asc/Idenit yServerAuth/membership.jsp
ASC Banner	Header-alone-no-logo.jpg	/opt/SUNWps/web-src/asc/images
ASC Title	/etc/opt/SUNWps/desktop/asc/	/etc/opt/SUNWps/desktop/asc/title.js p
User Info Form	/etc/opt/SUNWps/desktop/asc/JS PTabContainerProvider	/etc/opt/SUNWps/desktop/asc/JSPTa bContainerProvider/anonymous.jsp
Banner Background Color	/opt/SUNWps/web-src/css	/opt/SUNWps/web-src/asc/css/*
Other Background and Positions	/opt/SUNWps/web-src/asc/css/*	/opt/SUNWps/web-src/asc/css/*

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# 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 Portal uses two tabs: Home and MyPortal. The Home page has the nested tabs News and Career.

For detailed information on the channels and tabs, see the *Sun Java System Portal Server Desktop Customization Guide*.

## 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 Access Manager administration console. The administration 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.

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<b>NOTE</b>	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.
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## 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.

## 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

Portal developers should use portlets, unless there is a good reason not to. 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 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.

## Adding Content to the Desktop

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 it's 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.sun.com>). You use the following procedures:

- “To Create a Channel” on page 8
- “To Edit the Channel Properties” on page 9
- “To Add a URLScrapper Channel to the Desktop” on page 9
- “To Verify That the URLScrapper Channel Displays on the Desktop” on page 10

### ➤ To Create a Channel

Provider and Portlet channels are created in the same way.



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. Navigate to the adventuresportscafe.com organization.
3. Select Services from the View drop-down menu in the Navigation pane.
4. Click the properties icon arrow next to Portal Desktop.
5. Click the Manage Channels and Containers link.
6. Click New.. under Containers under the Channels section.

A form displays allowing you to specify the name of your new channel and the provider to use. For example, to display content from an external provider, you select the UrlScrapperProvider from the Provider drop-down menu.

7. Click OK to return to the Portal Desktop administration page.
8. The newly added channel, MyChannel, now appears under the Channels section of the Portal Desktop administration page.

After creating MyChannel, the channel properties can be modified.

► **To Edit the Channel Properties**

1. Click Edit Properties... link next to the MyChannel channel under the Channels section.

A form displays with the current channel properties.

2. Modify the desired property values.

For example you might want to change the channel title or description.

3. Click Save.

Now you can add MyChannel to the Desktop.

► **To Add a URLScrapper Channel to the Desktop**

1. Click NewsContainer under the Containers section.
2. Select the MyChannel entry in the Ready For Use list under Channel Management.
3. Click Add to move the MyChannel entry to the Available to End Users on the Content Page list. Ensure that the MyChannel entry in Available to End Users on the Content Page is highlighted.
4. Click Add under that list to move the entry to Visible on the Portal Desktop list.
5. Click Save under Channel Management.

6. Logout of the administration console.

► **To Verify That the URLScaper Channel Displays on the Desktop**

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

1. Access the Enterprise Sample Portal anonymous portal.
2. Login as mary with the password “ascsample”.

The user information channel displays in the left column.

## Categorizing Content on the Desktop

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

Every page is either:

- a **JSPTabContainer**. The frameworkSun Java™ System Technical Note: Getting Started with Enterprise Sample Portal 1.1 k that displays tabs. It can hold nested tabs.
- or
- a **JSPTableContainer**. 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.

Looking at the Adventure Sports Café home page, the home page is a tab, the News tab is a nested tab. The tab specifies the type of provider or portlet. The home page displays a table container defined so that it contains three columns: thin, wide, thin.

The following procedures illustrate how to create and display information:

- “To Create a New Tab Container” on page 11
- “To Change the Title of a Tab” on page 11
- “To Display the Tab on the Desktop” on page 11
- “To Add a Nested Tab to a Tab” on page 12
- “To Display a Nested Tab on the Desktop” on page 12
- “To Add Content (channels) to a Nested Tab” on page 12
- “To Verify Tabs are Displayed on the Desktop” on page 13

- “To Change the Width and Number of Columns” on page 14
- “To Verify that the Layout Properties Are Changed” on page 14

► **To Create a New Tab Container**

The following steps create 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 Access Manager administration console as administrator (amadmin).
2. Navigate to the `adventuresportscafe.com` organization.
3. Select Services from the View drop-down menu in the Navigation pane.
4. Click the properties icon arrow next to Portal desktop.
5. Click the Manage Channels and Containers link.
6. Click New.. under Containers.

A form is displayed allowing you to specify the name of your new container and the provider to use.

7. Enter `MyTabContainer` next to Channel Name and select `JSPTabContainerProvider` from the Provider drop-down menu.
8. Click OK to return to the Portal Desktop administration page.

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**NOTE** The current release of the Enterprise Sample Portal contains a bug. Clicking a top-level tab causes an error page to be displayed. To resolve this issue see “Fixing the `tabLevel` property bug” on page 18.

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Suppose you want to change the title of the tab from `MyTabContainer` to `MyTab`.

► **To Change the Title of a Tab**

1. Click Edit Properties.. next to `MyTabContainer`.
2. In the Edit properties form, change the description and title to "My Top Level Tab" and "MyTab" respectively.
3. Click Save to save the changes and return to the Portal Desktop administration page.

► **To Display the Tab on the Desktop**

1. Click `ASCTabContainer`.
2. Select the `MyTabContainer` entry in the Ready For Use list.

3. Click Add button to move the MyTabContainer entry to the Available to End Users on the Content Page list. Ensure that the MyTabContainer entry in Available to End Users on the Content Page is highlighted.
4. Click Add button under Content Page list to move the entry to Visible on the Portal Desktop list.
5. Click Save.

The newly created tab, MyTab, has no content. To add content to this tab, you must add a nested tab to MyTab.

### ➤ **To Add a Nested Tab to a Tab**

Before you can add content to a tab you must create a nested tab. A nested tab is a table container that aggregates channels and is derived from the JSPTabContainerProvider.

1. Follow the same steps as in “To Create a New Tab Container” on page 11.  
Choose JSPTabContainerProvider instead of JSPTabContainerProvider in Step# 7.
2. Follow the same steps as in “To Change the Title of a Tab” on page 11.
3. Change the description and title to "Nested Tab" and "NestedTab" respectively.

### ➤ **To Display a Nested Tab on the Desktop**

1. Click MyTabContainer on the Portal Desktop administration page.
2. Select the NestedTabContainer entry in the Ready For Use list.
3. Click Add button to move the NestedTabContainer entry to the Available to End Users on the Content Page list. Ensure that the NestedTabContainer entry in Available to End Users on the Content Page is highlighted.
4. Click Add button under that list to move the entry to Visible on the Portal Desktop list.
5. Click Save and return to the Portal Desktop administration page.

### ➤ **To Add Content (channels) to a Nested Tab**

1. Click NestedContainer on the Portal Desktop administration page.
2. Select the desired channel to be added to the tab. For example, add Bookmarks and SampleXML channels to the nested tab. Select the Bookmarks entry in the Ready For Use list.
3. Click Add button to move the Bookmarks entry to the Available to End Users on the Content Page list. Ensure that the Bookmarks entry in Available to End Users on the Content Page is highlighted.

4. Click Add button under that list to move the entry to Visible on the Portal Desktop list.
5. Repeat above step for SampleXML channel.
6. Click Save.

► **To Verify Tabs are Displayed on the Desktop**

1. Access the Enterprise Sample Portal anonymous portal.
2. Login as mary with the password “ascsample”.

The new tab is displayed next to Home and MyPortal.

3. Click MyTab.

The nested tab NestedTab being the only nested tab in MyTab is displayed with the Bookmarks and SampleXML channels.

## Displaying the Desktop Content

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.

The numeric value for the layout is unique and is used as the value for the layout property of the container. Table 2 shows the numeric values associated with the number of columns and their widths.

**Table 2** 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 Portal defines column widths as `layout=3` (Thin-Wide-Thin). To extend support for more layouts, refer to “Adding New Layouts” on page 20.

► **To Change the Width and Number of Columns**

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. Navigate to the adventuresportscafe.com organization.
3. Select Services from the View drop-down menu in the Navigation pane.
4. Click the properties icon arrow next to Portal desktop.
5. Click the Manage Channels and Containers link.
6. Click Edit Properties for NewsContainer under the Containers section.
7. Change the layout property to a new numeric value.
8. Click Save to save the changes and return to the Portal Desktop administration page.

► **To Verify that the Layout Properties Are Changed**

1. Access the Enterprise Sample Portal anonymous portal.
2. Login as mary with the password “ascsample”.

The new layout for NewsContainer displays..

## Setting Up an Anonymous Portal

The Enterprise Sample Portal installs with a functional anonymous portal that allows unauthenticated users access to information in the Portal Desktop before logging in to the Enterprise Sample Portal. This section provides instructions on how to setup a new anonymous Portal for the Enterprise Sample 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 chapter “Administering Authentication, Users, and Services” in the *Sun Java System Portal Server 6 2005Q1 Administration Guide*.

The organization adventuresportscafe.com referenced below is available after the Enterprise Sample Portal has been installed.

### ► To Create an Anonymous Portal

1. Login to the Access Manager administration 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. Navigate to the adventuresportscafe.com organization.
3. Use the View menu in the navigation pane and select Users.
4. Create a user account, for example create the user account siroeauthless.

The Enterprise Sample Portal creates the user `ascauthlessanonymous`.

### ► To Configure the Portal Desktop for the Anonymous Portal

The administrator needs to configure the Portal Desktop for anonymous Portal Server access.

1. Login to the Access Manager administration 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 Service Configuration in the location pane.
3. Select Portal Desktop under Portal Server Configuration.
4. Specify the fully distinguished name (`dn`) for the authentication-less or anonymous user to the Authorized Authentication-less User DN's and Passwords list. The format of the list is:

*user dn | user password*

For example:

```
uid=siroeauthless,ou=people,o=adventuresportscafe.com,dc=siroe,dc=com|siroeauthless
```

Note: the Enterprise Sample Portal adds the `ascauthlessanonymous` user to the list.

5. The Default Authentication-less user DN field determines which anonymous portal the end user is directed to by default.
6. Click Save.

### ► To Setup the Anonymous Portal Desktop

1. Login to the Access Manager administration 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. Navigate to the adventuresportscafe.com organization.

3. Use the View menu in the navigation pane and select Users.
4. Select the siroeauthless user.
5. Use the View menu in the User pane and select Services.
6. Click Edit for the Portal Desktop Service.
7. Use Manage Channels and Containers to setup the Portal Desktop for the anonymous portal.

## To Access 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 Portal could be directly accessed with the URL:

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

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## Presentation Templates

You can modify the following Enterprise Sample Portal template pages to suit your needs:

- Login Failed
- Logout
- Error Pages

Copy the Enterprise Sample Portal templates from `/etc/opt/SUNWps/desktop/asc` to your custom directory under `/etc/opt/SUNWps/desktop` and only modify the templates in the custom directory. The Portal Desktop type needs to be changed to use the templates in your custom directory.



### ► To Modify the Portal Desktop Type

1. Login to the Access manager administration 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. Navigate to the `adventuresportscafe.com` organization.
3. Use the View menu in the navigation pane and select Services.
4. Click the properties for the Portal Desktop service.
5. Modify the Portal Desktop Type setting with your custom directory name. This field supports a comma separated list of values.
6. Select Save.

### ► 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 administration 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. Navigate to the `adventuresportscafe.com` 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 Portal specifies the default login URL for the Adventure Sports Cafe as `http://siroe.com/portal/enterprise/EnterpriseSample/login-failed.html`

### ► 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 Portal uses this approach when a user logs out of the portal to redirect to the anonymous portal.

1. Navigate to the directory `/etc/opt/SUNWps/desktop/asc`

## 2. Edit the logout.jsp file.

For example:

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

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

- o /etc/opt/SUNWps/desktop/asc/logout.jsp
- o /etc/opt/SUNWps/desktop/asc/error/error.template
- o /etc/opt/SUNWps/desktop/asc/error/noneditablechannel.template
- o /etc/opt/SUNWps/desktop/asc/error/noprivilege.template
- o /etc/opt/SUNWps/desktop/asc/error/unknownchannel.template

### ► To Define the Error Pages

The Enterprise Sample Portal template error pages are defined in the table below. Each error page specifies the company branding and logout URL.

**Table 3** Error Page Templates

Error Template	Error Condition
/etc/opt/SUNWps/desktop/asc/error/error.template	general Portal Desktop error
/etc/opt/SUNWps/desktop/asc/error/noneditablechannel.template	end user session has timed out or attempting to edit a non-editable channel
/etc/opt/SUNWps/desktop/asc/error/noprivilege.template	end user does not have permission to access the Portal Desktop
/etc/opt/SUNWps/desktop/asc/error/unknownchannel.template	end user is attempting to access a channel that is not defined

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## Fixing the tabLevel property bug

The current release has a bug with creation of top-level tabs. Clicking on a newly created top-level tab from the Enterprise Sample Portal Desktop causes a ProviderException with a stack trace similar to the one shown below.

```
ERROR: DesktopServlet.handleException()  
com.sun.portal.providers.ProviderException: JSPPProvider.processJSPFile(): jsp=tab.jsp,
```

```

com.sun.portal.providers.context.ProviderContextException:
PSPProviderContext.getIntegerProperty():
com.sun.portal.desktop.context.ContextError: DPPPropertiesContext.getIntegerProperty():
property not found in profile for channel=MyTabContainer, key=tabLevel
com.sun.portal.desktop.taglib.DesktopTaglibException: PSPProviderContext.getIntegerProperty():
com.sun.portal.desktop.taglib.DesktopTaglibException: JSPProvider.processJSPFile():
jsp=tab.jsp,
    at com.sun.portal.providers.jsp.JSPProvider.processJspFile(JSPProvider.java:913)
    at com.sun.portal.providers.jsp.JSPProvider.processJspFile(JSPProvider.java:810)
    at com.sun.portal.providers.jsp.JSPProvider.getContent(JSPProvider.java:579)

```

**Note:** This exception does not occur for nested tabs.

The stack trace indicates that this error occurs because `tab.jsp` is unable to find a property `tabLevel` in the display profile for `MyTabContainer`. This bug can be fixed by making few minor changes in the file `/etc/opt/SUNWps/desktop/asc/JSPTabContainerProvider/tab.jsp`.

The fix is to add a try-catch block that can handle the condition of the `tabLevel` property not being present.

Here is the changed code for

`/etc/opt/SUNWps/desktop/asc/JSPTabContainerProvider/tab.jsp:`

```

<%@ page session="false"
%><%@ taglib uri="/tld/desktop.tld" prefix="dt"
%><%@ taglib uri="/tld/desktopContainerProviderContext.tld" prefix="dtcpc"
%><%@ taglib uri="/tld/desktopProviderContext.tld" prefix="dtpc"
%><%@ taglib uri="/tld/desktopTab.tld" prefix="tab"
%><%@ taglib uri="/tld/jx.tld" prefix="jx"%>
<dt:obtainContainer container="$JSPProvider">
    <% try { %>
        <dtcpc:getIntegerProperty id="tabLevel" key="tabLevel"/>
            <jx:declare id="tabLevel" type="Integer"/>
            <% if (tabLevel.intValue() == 0 ) { %>
                <jsp:include page="header.jsp" flush="true"/>
                <%@ include file="primaryContainer.jsp"%>
            <% } else { %>
                <%@ include file="secondaryContainer.jsp"%>

```

```

        <% }
    } catch (Exception e) { %>
        <%@ include file="secondaryContainer.jsp"%>
    <% } %>
<tab:tabContainerProvider>
    <tab:getSelectedTabName id="containedChannel" scope="request"/>
    <dtcpc:getContent channel="$containedChannel"/>
</tab:tabContainerProvider>
</dt:obtainContainer>

```

## Adding New Layouts

The Enterprise Sample Portal relies on the CSS file for positioning of channels on the page. When creating new layouts or modifying existing layouts, review the Enterprise Sample Portal CSS files under `/opt/SUNWps/web-src/asc/css`.

You will see various CSS files. The 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 `/opt/SUNWps/web-src/asc/js/util.js`.

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

You can extend the code to support multiple layouts by modifying the file `/etc/opt/SUNWps/desktop/asc/JSPTableContainerProvider/table.jsp`.

In `table.jsp`, replace the code in 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

/etc/opt/SUNWps/desktop/asc/JSPTableContainerProvider/table.jsp 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">

```

## Adding New Layouts

```
<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 -->

```

After you make modifications to these files, redeploy the portal web application using the utility:  
`/opt/SUNWps/bin/deploy`.

The Enterprise Sample Portal relies on the CSS file for positioning of channels on the page. When creating new layouts or modifying existing layouts, review the Enterprise Sample Portal CSS files under `/opt/SUNWps/web-src/asc/css`.

You will see various CSS files. The 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 `/opt/SUNWps/web-src/asc/js/util.js`.

After you make modifications to these files, redeploy the portal web application using the utility:  
`/opt/SUNWps/bin/deploy`

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# How to Report Problems and Provide Feedback

If you have problems, contact Sun customer support using one of the following mechanisms:

- Sun Software Support services online at  
<http://www.sun.com/service/sunone/software>

This site has links to the Knowledge Base, Online Support Center, and ProductTracker, as well as to maintenance programs and support contact numbers.

- The telephone dispatch number associated with your maintenance contract

So that we can best assist you in resolving problems, please have the following information available when you contact support:

- Description of the problem, including the situation where the problem occurs and its impact on your operation
- Machine type, operating system version, and product version, including any patches and other software that might be affecting the problem
- Detailed steps on the methods you have used to reproduce the problem
- Any error logs or core dumps

You might also find it useful to subscribe to the following interest groups, where Portal Server topics are discussed:

snews: // *YourNewsForum*

snews: // *YourSecondNewsForum*

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# Additional Sun Resources

Useful Sun Java System information can be found at the following Internet locations:

- **Documentation for Portal Server**  
<http://docs.sun.com/coll/1293.1>
- **Sun Java System Documentation**  
<http://docs.sun.com/prod/java.sys>
- **Sun Java System Professional Services**  
<http://www.sun.com/service/sunps/sunone>
- **Sun Java System Software Products and Service**  
<http://www.sun.com/software>
- **Sun Java System Software Support Services**  
<http://www.sun.com/service/sunone/software>
- **Sun Java System Support and Knowledge Base**  
<http://www.sun.com/service/support/software>
- **Sun Support and Training Services**  
<http://training.sun.com>
- **Sun Java System Consulting and Professional Services**  
<http://www.sun.com/service/sunps/sunone>
- **Sun Java System Developer Information**  
<http://developers.sun.com>
- **Sun Developer Support Services**  
<http://www.sun.com/developers/support>
- **Sun Java System Software Training**  
<http://www.sun.com/software/training>
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