

1

Creating and Managing Pages

Enhancements in Release 11.1.1.4

The goal of this module is to teach you about functionality introduced in Oracle WebCenter 11g R1 (11.1.1.4), commonly referred to as PS3. The product itself will be rebranded as Oracle WebCenter Portal in PS5 (11.1.1.6). Although the PS3 UI still uses the older terminology, this module introduces the new terminology wherever possible.

For more information, visit [Oracle WebCenter Portal](#) on OTN.

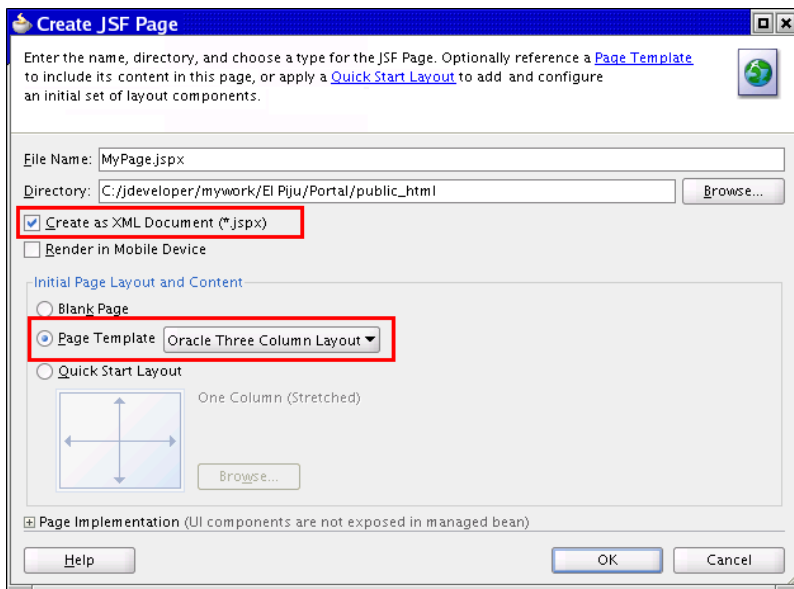
Objectives

After completing this lesson, you should be able to:

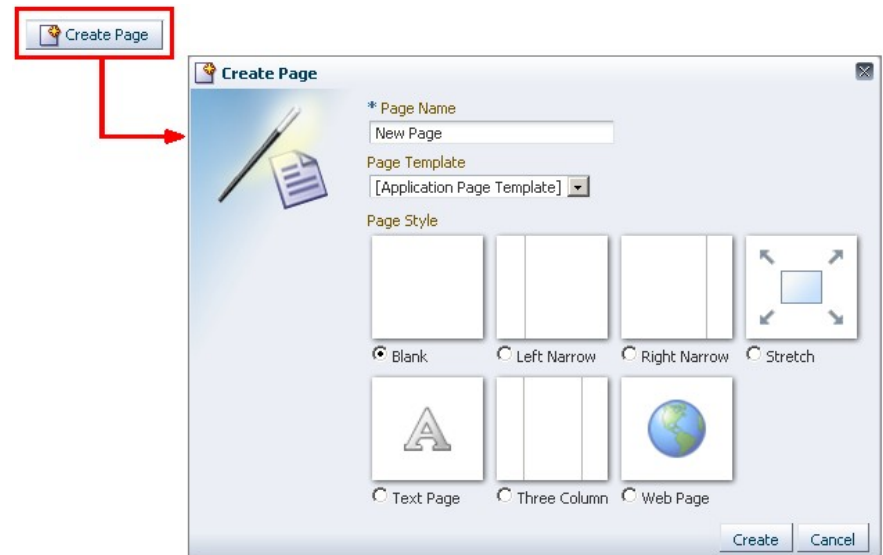
- Explain page hierarchy and the security model in a Framework application
- Add pages to a page hierarchy
- Manage pages in the design time page hierarchy editor
- Manage pages and page styles in a deployed application
- Explain the round-trip development process for page styles
- Identify the new page management features in Oracle WebCenter Portal: Spaces

Review: Creating and Managing Pages

Page creation at design time,
in JDeveloper.

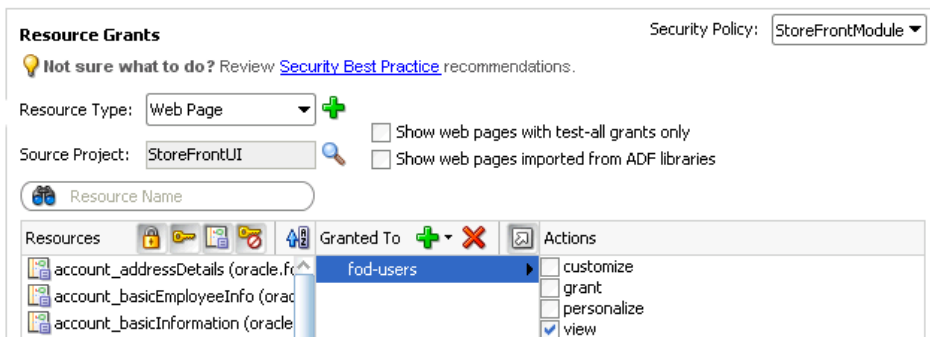


Page creation at runtime,
enabled using the Page –
Create New task flow.

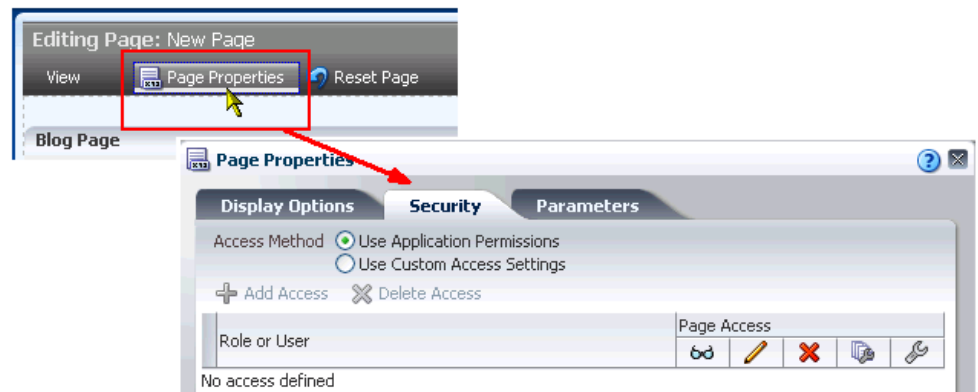


Review: Securing Pages

Defining page security at design time, in the jazn-data.xml file.



Defining page security at runtime, in Oracle Composer.





Page Management in Framework Applications: What's New in the PS3 Release?

- Page hierarchy and delegated administration
- Runtime management of pages, page hierarchies, and page styles

Page Hierarchies



A page hierarchy is a logical structure that arranges pages through a set of parent-child relationships.

Page Hierarchy
Drag ADF pages and drop them in the page hierarchy tree below.

Hierarchy:  

- Root
 - Home
 - Locations
 - Boulder
 - Denver

Id:*
Title:
Path:
 Visible

Security  

Inherit Parent Security
 Delegate Security

| Role | Manage | Grant | Create | Delete | Update | Personalize | View |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| authenticated-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Administrator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| anonymous-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



Define the structure of pages



Allow inheritance and delegation of page access policies

Page Hierarchy Used for Navigation

Page hierarchy, when included in the application's navigation, helps users move easily across different pages.



The Out-of-the-Box Page Hierarchy File

The screenshot displays the Oracle ADF IDE interface. On the left, the Application Navigator shows a project structure with folders like 'Portal', 'Application Sources', 'Web Content', 'images', 'oracle', 'webcenter', 'portalapp', 'catalogs', 'navigations', 'pagehierarchy', and 'pages.xml'. The main editor shows the source code of 'pages.xml' with the following content:

```
<?xml version="1.0" encoding="UTF-8" ?>
<pagesDef xmlns="http://xmlns.oracle.com/webcenter/page"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://xmlns.oracle.com/webcenter/page/pagesDef.xsd">
  <pageDef contentMRef="/oracle/webcenter/portalapp/pages/home.jspx"
    hidden="false" shared="false" hasSubPages="false" id="home"
    overridePolicy="true"/>
</pagesDef>
```

Below the code editor is the 'Page Hierarchy' overview editor. It contains a tree view with 'Root' and 'Home' nodes. To the right of the tree are input fields for 'Id:*', 'Title:', and 'Path:', a 'Visible' checkbox, and a 'Security' section with radio buttons for 'Inherit Parent Security' and 'Delegate Security'. At the bottom right, there is a table with columns 'Role', 'Manage', 'Grant', and 'Create'.

| Role | Manage | Grant | Create |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| authenticated-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Administrator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Two yellow callout boxes are present: one pointing to the source code with the text 'Source code of the out-of-the-box hierarchy', and another pointing to the hierarchy overview editor with the text 'Page hierarchy Overview editor'.

Building the Page Hierarchy at Design Time

Page hierarchy files created for nodes with sub pages

Add Page icon

Modify page display attributes

The screenshot shows the Oracle ADF Design Time interface. On the left, the Project Explorer displays a file tree with folders like 'pages' and 'pages.xml'. Two XML files, 'homePages.xml' and 'LocationsPages.xml', are highlighted with a red box. In the center, the 'Page Hierarchy' pane shows a tree structure: Root > Home > Locations > Boulder > Denver. A green plus icon is highlighted with a red box. On the right, the Properties pane shows details for the 'Locations' page, including its ID, title, path, and security settings. A red box highlights the 'Security' section, which includes radio buttons for 'Inherit Parent Security' and 'Delegate Security', and a table of access policies.

| Role | Grant | Create | Delete |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| authenticated-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Administrator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Drag and drop page onto node in page hierarchy

Define access policies

Page Hierarchy – Page Attributes

The diagram illustrates the configuration for a page named 'Boulder'. It features a central form with the following fields:

- Id:***: Boulder
- Title**: Boulder
- Path**: /oracle/webcenter/portalapp/pages/Boulder.jspx
- Visible**

Four callout boxes provide additional context:

- Unique ID for the page**: Points to the 'Id:*' field.
- Name used for the page in the runtime Resource Manager**: Points to the 'Title' field.
- Display the page in the hierarchy at runtime**: Points to the 'Visible' checkbox.
- Non-editable field displaying the path in which the page is stored**: Points to the 'Path' field.

Page Hierarchy – Defining Access Policies

Selected by default.
Page inherits access policies from its parent.

Security + ×

Inherit Parent Security
 Delegate Security

| Role | Grant | Create | Delete | Update | Personalize | View |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| anonymous-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| authenticated-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Administrator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Select to define specific permissions. The table is editable only on selecting this option.

Security + ×

Inherit Parent Security
 Delegate Security

| Role | Grant | Create | Delete | Update | Personalize | View |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| anonymous-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| authenticated-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Administrator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Building the Page Hierarchy at Runtime

The screenshot displays the Oracle WebCenter Portal Administration Console. The interface includes a navigation menu on the left with sections for 'Structure' (Pages, Page Templates, Navigations, Resource Catalogs) and 'Look and Layout' (Skins). The main content area shows a table of pages with columns for Name, Sub Pages, Reorder, Show Page, Access, Created By, Last Modified, and Actions. A 'Create Page' button is visible above the table. A search bar is also present.

Callouts and their corresponding actions:

- Create root-level page:** Points to the 'Create Page' button.
- Change the display order of pages:** Points to the 'Reorder' column.
- Show or hide a page:** Points to the 'Show Page' column.
- View sub pages under selected page. Create link displayed if there are no sub pages:** Points to the 'Sub Pages' column.

The 'Actions' column for the 'About Us' page is expanded, showing the following options:

- 14/10 09:34 PM
- Edit Page
- Copy Page
- Rename Page
- Set Access
- Delete Page
- Move Page
- About This Page

| Name | Sub Pages | Reorder | Show Page | Access | Created By | Last Modified | Actions |
|-----------|-----------|---------|-------------------------------------|--------|------------|-------------------|---------|
| Home | Create | ⏪ ⏩ ⏴ ⏵ | <input checked="" type="checkbox"/> | 🔗 | | | ⚙️ |
| About Us | Create | ⏪ ⏩ ⏴ ⏵ | <input type="checkbox"/> | 🔒 | weblogic | 12/14/10 05:23 AM | ⚙️ |
| Locations | | ⏪ ⏩ ⏴ ⏵ | <input type="checkbox"/> | 🔗 | weblogic | 12/14/10 09:34 PM | ⚙️ |

Managing Pages

ORACLE WebCenter Portal® Administration Console

Resources Services Security Configuration Propagation

Structure
Pages
Page Templates
Navigations
Resource Catalogs

Look and Layout
Skins

All Pages
Create Page Set Default Access Search

| Name | Sub Pages | Reorder | Show Page | Access | Created By | Last Modified | Actions |
|------------|-----------|---------|-----------|--------|------------|-------------------|---------|
| Home | Create | ⏏ ⏏ ⏏ ⏏ | ☑ | 🔓 | | | ⚙️ |
| About Us | Create | ⏏ ⏏ ⏏ ⏏ | ☐ | 🔒 | weblogic | 12/14/10 05:23 AM | ⚙️ |
| Contact Us | Create | ⏏ ⏏ ⏏ ⏏ | ☐ | 🔓 | weblogic | 12/14/10 09:34 PM | ⚙️ |

- Edit Page
- Copy Page
- Rename Page
- Set Access
- Delete Page
- Move Page
- About This Page

Overriding Inherited Page Security

Modify access policies
at the root level

ORACLE WebCenter Portal® Administration Console

Resources Services Security Configuration Propagation

Structure
Pages
Page Templates
Navigations
Resource Catalogs

Look and Layout
Skins

All Pages
Create Page Set Default Access Search

| Name | Sub Pages | Reorder | Show Page | Access | Created By | Last Modified | Actions |
|------------|-----------|---------|-----------|--------|------------|-------------------|---------|
| Home | Create | ⬆ ⬇ ⬆ ⬇ | ☑ | 🔓 | | | ⚙️ |
| About Us | Create | ⬆ ⬇ ⬆ ⬇ | ☐ | 🔒 | weblogic | 12/14/10 05:23 AM | ⚙️ |
| Contact Us | Create | ⬆ ⬇ ⬆ ⬇ | ☐ | 🔓 | weblogic | 12/14/10 09:34 PM | ⚙️ |

Modify access
policies at the
page level

14/10 09:34 PM ⚙️

- Edit Page
- Copy Page
- Rename Page
- Set Access
- Delete Page
- Move Page
- About This Page

Setting Permissions

Select to set permissions.
The options in the lower half
are enabled only on selecting
this option

Selected by default. The
page inherits access
policies from its parent.

Set Page Access

Access Method Delegate Security Inherit Parent Security

Add Users Add Groups Add Roles | Delete Access

| Role or User | Access | | | | | |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| | Grant | Create | Delete | Edit | Personalize | View |
| anonymous-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| authenticated-role | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Administrator | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

OK Cancel

Page Styles

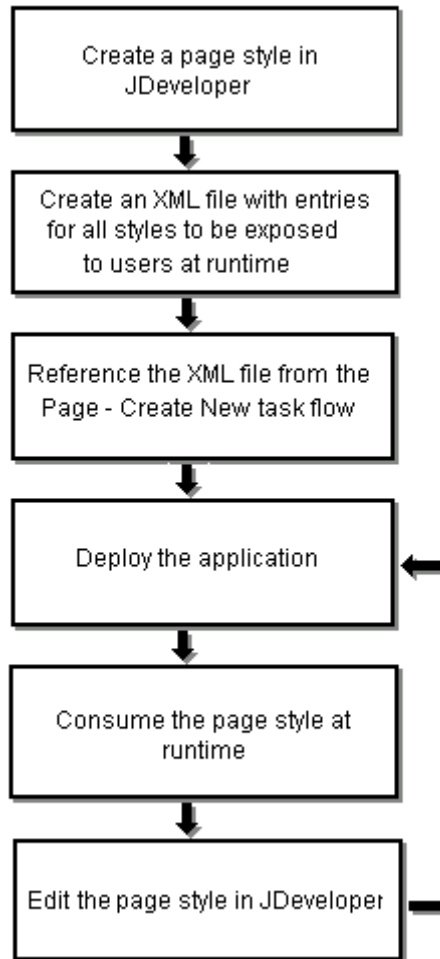
A page style provides a predefined layout and initial content for a new page.

The image shows a screenshot of the AvTrust website. A red border highlights the entire page layout, with a callout box pointing to it that says "Defined by the page template". A green border highlights a central content area, with a callout box pointing to it that says "Defined by the page style".

The website content includes:

- AvTrust logo and navigation links (Personal, Small Business, Commercial, Customer Service).
- Sign In and Customer Service links.
- View Your Accounts section with User Name and Password fields.
- Need to setup online access? Sign Up Now or Take a Tour.
- Account Services: Free* Mobile Banking, Setup Account Alerts, Get Online Statement.
- Find ATMs/Locations: Enter Zip OR City, State.
- Fraud Prevention and Online Security: Report Fraud, Visit our Fraud Information Center, Read Our Online Security Guarantee.
- Build your business with a bank you trust (with image of a man and woman at a laptop).
- Find new ways to manage your cash flow by opening a business checking account (with Learn More button).
- Open an Account: Checking, Success.
- Two video players: "26,000 DATA POINTS COLLECTED FOR EVERY SECOND OF SAILING" and a man speaking.
- Footer: About AvTrust | Careers | Privacy, Security and Legal | Report Email Fraud | Sitemap | Home. Copyright © AvTrust. All Rights Reserved.

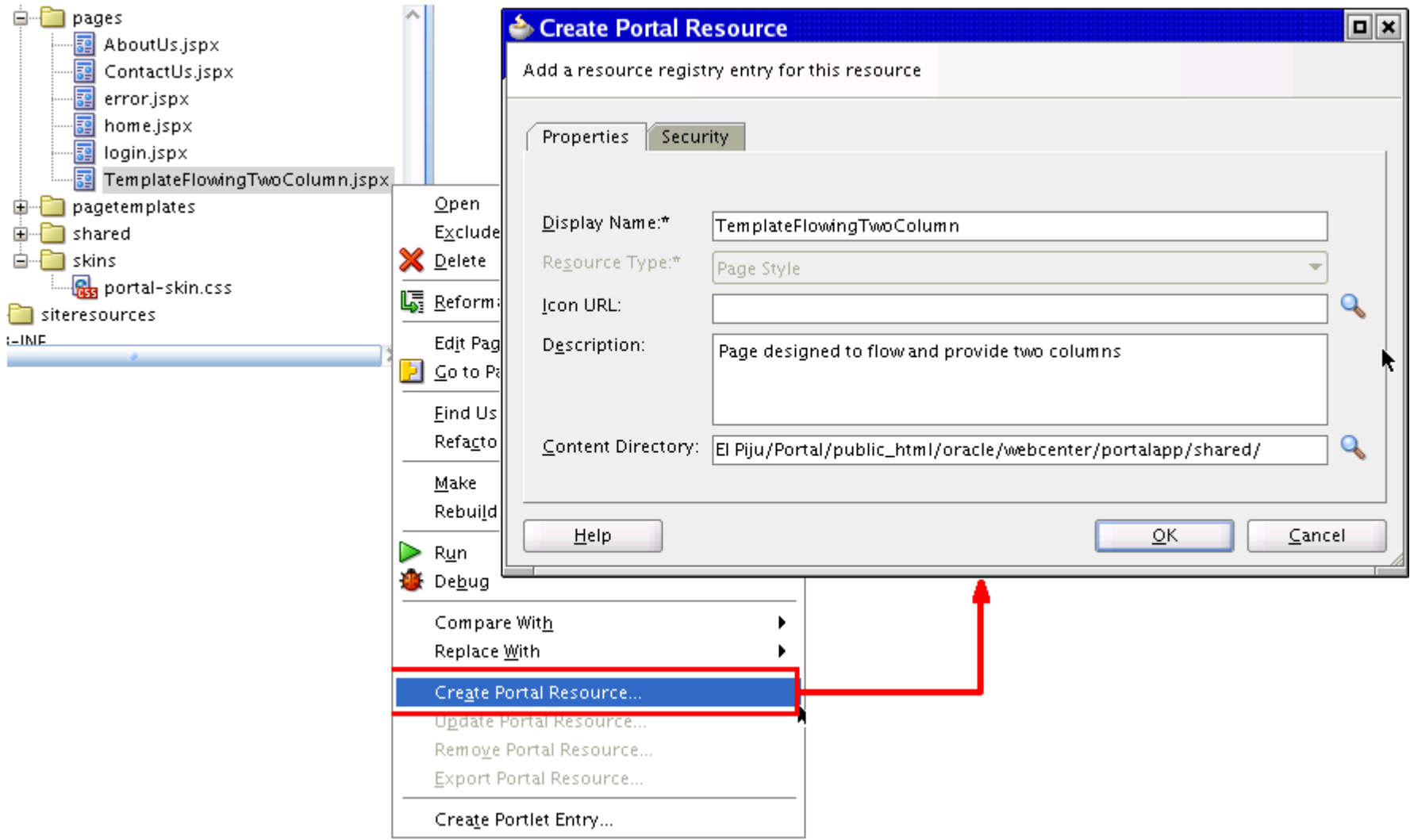
Page Style Management Until Now



Page Style Management: What's New in the PS3 Release?

- Create or modify a page style in JDeveloper and expose it in the runtime application immediately.
- Manage page styles at runtime.
- Bring a page style created at runtime into JDeveloper, modify it, and upload it back to the running application.

Exposing a Page Style as a Portal Resource



Managing Page Styles at Runtime

Upload page style modified in JDeveloper

Download page style to modify in JDeveloper

See how the style appears when applied to a page

The screenshot displays the Oracle ADF runtime page style management interface. The interface is divided into several sections: Structure, Look and Layout, and Mashups. The 'Page Styles' section is currently active, showing a list of page styles. The list includes columns for availability (all marked as 'Available'), name, and modification details (Modified By and On). A context menu is open over the 'Designs Page' style, showing options like 'Copy', 'Security Settings', 'Delete', 'Show', 'Edit Source', and 'Edit Properties'. Callout boxes point to the 'Upload', 'Download', and 'Preview' buttons, and the 'Edit Source' and 'Edit Properties' menu items.

| Availability | Page Style Name | Modified By | On |
|--------------|-------------------------|-------------|----------------|
| Available | Blank Page Style | system | 7/2/10 5:44 AM |
| Available | Left Narrow Page Style | system | 7/2/10 5:44 AM |
| Available | Right Narrow Page Style | system | 7/2/10 5:44 AM |
| Available | Stretch Page Style | system | 7/2/10 5:44 AM |
| Available | Text Page Page Style | system | 7/2/10 5:44 AM |
| Available | Three Column Page Style | system | 7/2/10 5:44 AM |
| Available | Web Page Page Style | system | 7/2/10 5:44 AM |
| Available | Designs Page Style | user01 | 7/8/10 0:40 AM |

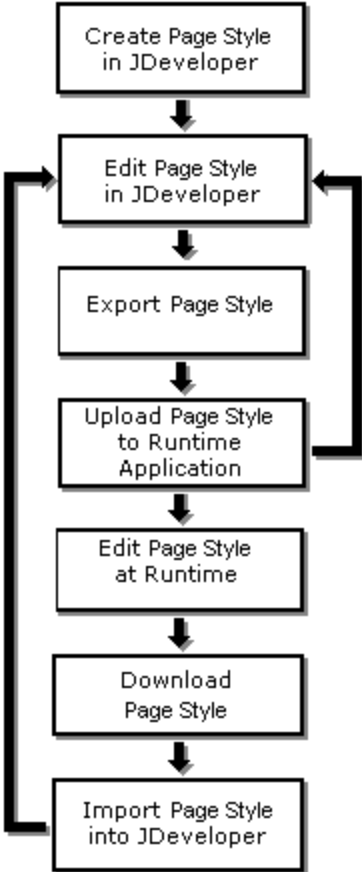
Modify access policies

Edit the source code in a text editor

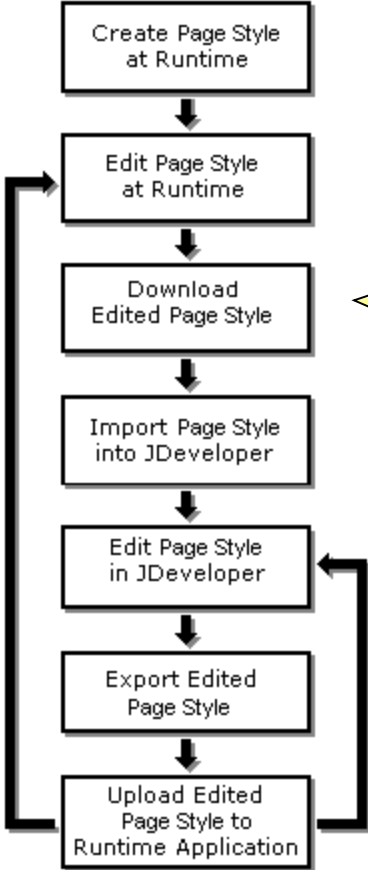
Edit the page style's display attributes

Understanding the Round-Trip Development Process for Page Styles

Process for page styles created at design time



Process for page styles created at runtime



Importing Page Styles

Structure

- Page Templates
- Navigations
- Resource Catalogs

Upload Download Preview

Hidden Two Column

Download - Two Column

Archive Name: webcenter_1309331983882.ear

Download Cancel

Opening webcenter_1309331983882.ear

You have chosen to open

webcenter_1309331983882.ear

which is a: ear File

from: http://127.0.0.1:7101

What should Firefox do with this file?

Open with Browse...

Save File

Do this automatically for files like this from now on.

Cancel OK

3 (In JDeveloper)

Import Portal Resource

Import a resource from the selected EAR file

Import Archive File Name:

Developer/mywork/webcenter_1309331983882.ear

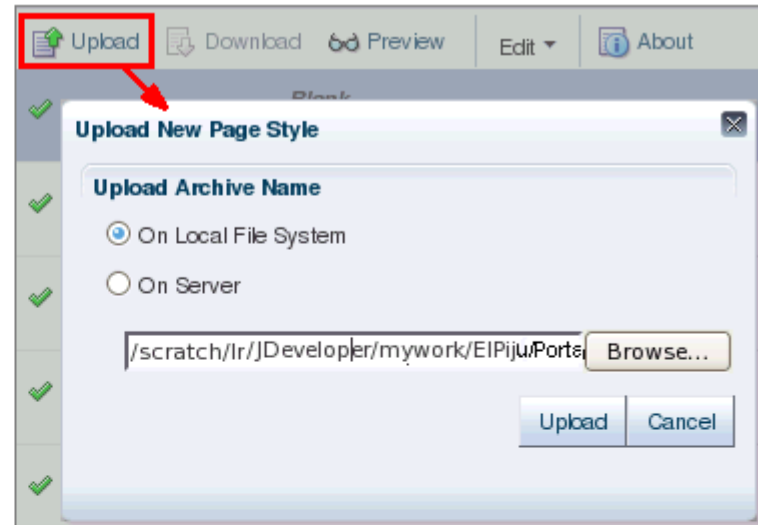
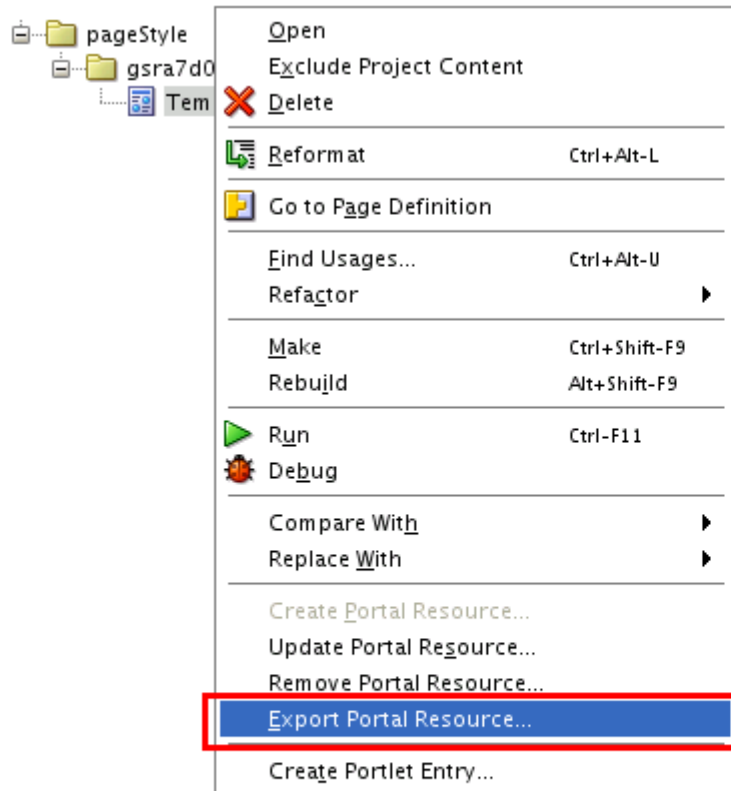
Help OK Cancel

portalapp

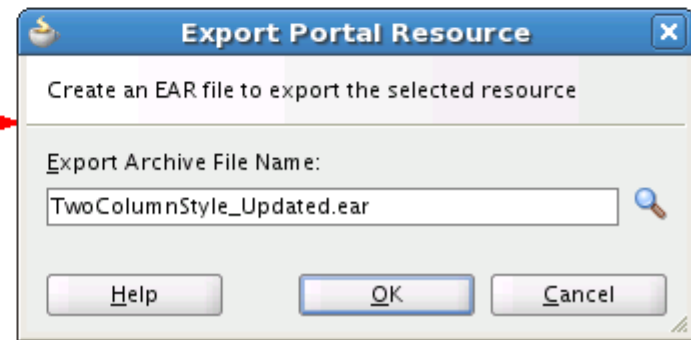
- catalogs
- navigations
- pagehierarchy
- pages
- pagetemplates
- shared
- skins
- siteresources
 - scopedMD
 - s8bba98ff_4cbb_40b8_beee_296c916a23ed
 - pageStyle
 - gsra7d000fa_4c40_4c02_bc07_616f480d0227
 - TemplateNarrowLeft.jspx

- shared

Exporting Page Styles



2 At Runtime



What's New in Page Management in WebCenter Portal: Spaces?

| Name | Description | Last Modified | Actions |
|-----------------|----------------------|-------------------|---------------------------|
| Activities | Displays application | 4/15/10 12:00 AM | Customize Restore Default |
| Activity Stream | Displays application | 10/30/09 12:00 AM | Customize Restore Default |
| Analytics | Gather information | 4/8/10 4:50 AM | Customize Restore Default |
| Announcements | Enables users to vi | 10/30/09 7:00 PM | Customize Restore Default |

Ability to customize system pages

Structure

- Navigation
- Resource Catalogs

Look and Layout

- Skins
- Page Styles**
- Content Presenter
- Mashup Styles

Mashups

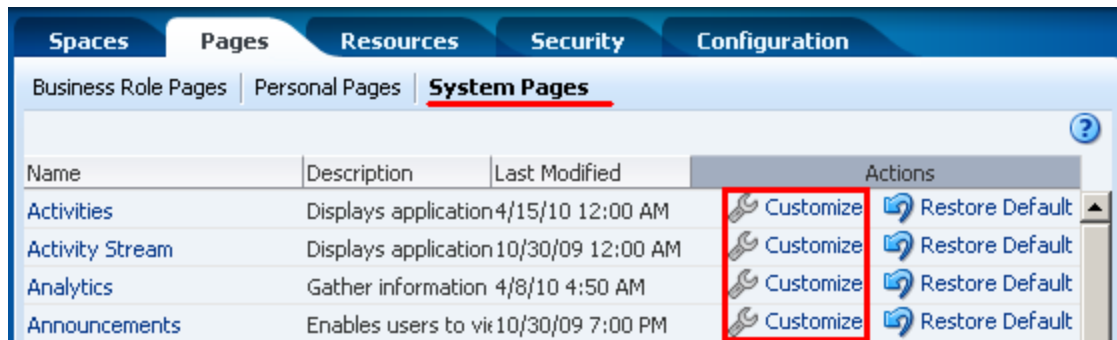
- Data Controls
- Task Flows

| Status | Page Style Name | Page Style Description |
|-----------|-----------------|-------------------------|
| Hidden | AccountsPage | |
| Available | Blank | Blank Page Style |
| Available | Blog | Blog Page Style |
| Available | Home Page | Home Page Page Style |
| Available | Left Narrow | Left Narrow Page Style |
| Available | Right Narrow | Right Narrow Page Style |

Ability to administer page styles using resource management tools

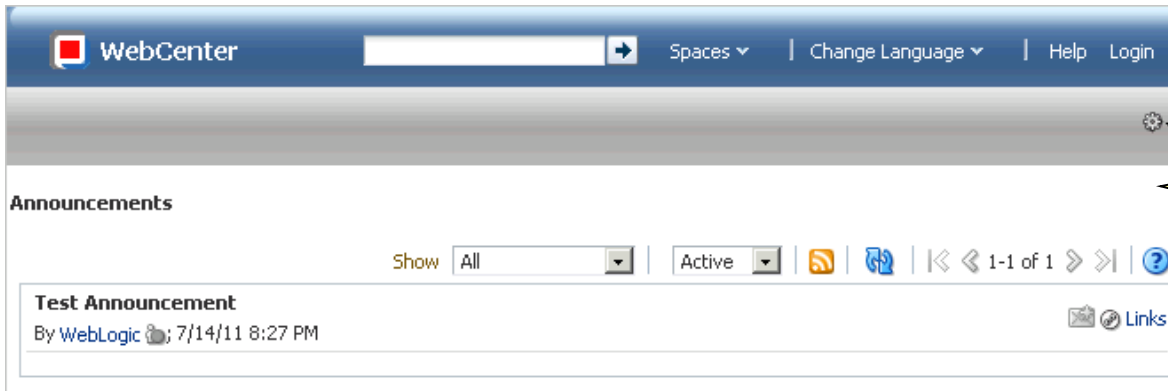
About System Pages

- A system page typically contains a few layout components and a seeded task flow such as the login form, or the Activity Stream, Documents, or Announcements task flow.
- System pages are preconfigured with page access settings that target their anticipated audience.



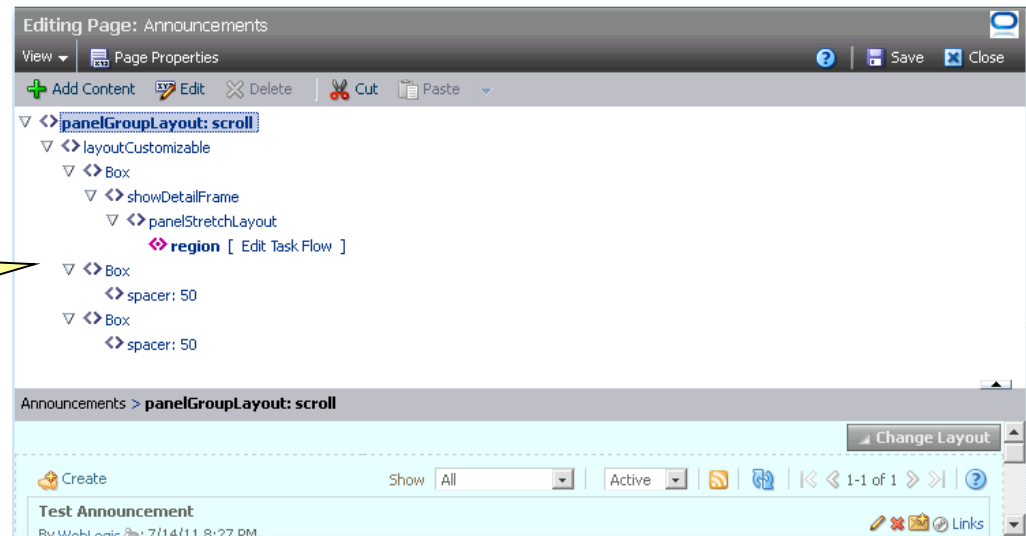
| Name | Description | Last Modified | Actions |
|-----------------|-----------------------|-------------------|---|
| Activities | Displays application | 4/15/10 12:00 AM | Customize Restore Default |
| Activity Stream | Displays application | 10/30/09 12:00 AM | Customize Restore Default |
| Analytics | Gather information | 4/8/10 4:50 AM | Customize Restore Default |
| Announcements | Enables users to view | 10/30/09 7:00 PM | Customize Restore Default |

Customizing System Pages



Example:
Announcements
system page

Announcements
page in Oracle
Composer's Source
View



Summary

In this lesson, you should have learned how to:

- Manage pages in a Framework application using a page hierarchy
- Leverage the delegated administration feature
- Manage page styles in both WebCenter Portal: Framework and WebCenter Portal: Spaces applications
- Customize system pages in WebCenter Portal: Spaces applications

Demonstration

