Oracle Utilities Customer Self Service

Whitepaper: OUCSS Web Application Release 2.2.0.0 **E78238-01**

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Chapter 1

Overview

This whitepaper describes the reference Oracle Utilities Customer Self Service (OUCSS) Web Application that is developed using the Oracle Application Development Framework (ADF) and is pre-integrated with the core OUCSS application modules and security model. It provides flexible deployment options and extension methodology to adapt the reference application to specific implementation requirements.

Additional Resources

For additional details see the following resources:

- The Oracle Utilities Customer Self Service Installation Guide and the Oracle Utilities Customer Self Service Implementation Guide (both available at http://docs.oracle.com/cd/E78536_01/index.htm) provide information on product installation/uninstallation, requirements, configuration, and administration.
- Oracle® Fusion Middleware Developing Fusion Web Applications with Oracle Application Development Framework 12c (12.1.2), available at https://docs.oracle.com/middleware/1212/adf/ADFFD/toc.htm.

Note: This document and the documentation mentioned above is subject to revision and updating. For the most recent version of this and related documentation, as well as information on functionality and known issues for other Oracle products that may be required for installation and proper functionality of this product, check the <u>Oracle Utilities Documentation</u> area on the Oracle Technology Network (OTN) web site (http://docs.oracle.com/cd/E72219_01/documentation.html).

Software Requirements

- Oracle JDeveloper version 12c (12.1.2), available from OTN at <u>http://www.oracle.com/technetwork/developer-tools/jdev/downloads/jdev12120download-2220222.html</u>.
- Oracle Utilities Customer Self Service version 2.2.0.0 (OUCSS2200.zip), available from the Oracle Software Delivery Cloud at <u>edelivery.oracle.com</u>.
- OUCSS Web Application: OUCSSWebApp2.2.0.0.zip, available from the <u>Oracle Utilities Documentation</u> area on the Oracle Technology Network (OTN) web site (OUCSS section, http://docs.oracle.com/cd/E78536_01/index.htm).

- Application Server with ADF Runtime installed (see the <u>Oracle® Fusion Middleware Third-Party Application Server</u> <u>Guide</u> for information on the application servers supported by Oracle).
- MetaData Services.

Abbreviations

OUCSS	Oracle Utilities Customer Self Service
ССВ	Oracle Utilities Customer Care and Billing
MDM	Oracle Utilities Meter Data Management
NMS	Oracle Utilities Network Management System
MDS	Metadata Services
EAR	Enterprise Archive
OUCSS Web App	OUCSS Web Application
MW_HOME	Middleware Home
OUCSS_Product_Home	The folder in which the webcenter_WSS.zip file is extracted.
OUCSS- PortalInstall2.2.0.0	OUCSS Portal install package for Service Pack 2 downloaded from Oracle Software Delivery Cloud (edelivery.oracle.com)

Chapter 2

Installation and Uninstallation

Installing on a WebLogic Server

Prerequisites

Oracle Utilities Customer Self Service Web Application depends on OUCSS Schema tables, OUCSS data sources, OUCSS Shared Libraries, OUCSS Security credentials and Mail Session, and OUCSS BPEL flows which are part of the Oracle Utilities Customer Self Service package. It also requires supported versions of Oracle Utilities edge applications as defined in *Chapter 2, "Installation - Software Requirements"*, in the *OUCSS 2.2.0.0 Installation Guide*.

Installation Steps

- 1 Download <OUCSS-PortalInstall2.2.0.0>.zip from the Oracle Software Delivery Cloud (edelivery.oracle.com) and extract into a target installation directory (e.g., /u01/Oracle/Products/OUCSS on Linux or D:\Oracle\Products\OUCSS on Windows).
- 2 Locate *webcenter_WSS.zip* in the installation folder and unzip the contents to <<MW_HOME>>/<<OUCSS_Product_Home>> subfolder.
- **3** Download OUCSSWebApp2.2.0.0.zip from the OTN and extract into a target installation directory (e.g., /u01/Oracle/Products/OUCSSWebApp on Linux or D:\Oracle\Products\OUCSSWebApp on Windows).
- 4 Copy CustomInstallBuild.xml and CustomUnInstallBuild.xml located under ./Deployables into <<OUCSS_Product_Home>>/ bin
- **5** Copy the ./OUCSSWebApp/Deployables/OUCSSWebApp_EAR.ear file into the ./<<OUCSS_Produce_Home>>/Install/application folder.
- 6 Create a **custom** folder under <<OUCSS_Product_Home>>/Install/DB/ and copy the ./Deployables/UpdateResource.sql file to the <<OUCSS_Product_Home>>/Install/DB/custom folder.

- 7 Apply the following procedures from the referenced sections of the OUCSS 2.2.0.0 Installation Guide:
 - A Perform all steps in the "Pre-Installation Tasks (Cluster or Standalone)" procedure in Chapter 2 of the *OUCSS Installation Guide*.
 - B Perform all steps in the "Configuring Edge Applications" procedure in Chapter 2 of the OUCSS Installation Guide.
 - **C** Perform Steps 1 through 10 of the "Installing OUCSS Portal" procedure in Chapter 2 of the *OUCSS Installation Guide*.

Notes:

- Enter server information for OUCSSWebApp under OUCSSPortal tags in InstallProperties.xml
- Since this install does not install OUCSSPortletProducer, in InstallProperties.xml, details under <oucssPortletProducer></oucssPortletProducer> can be left empty.

Important: After performing these procedures, check the logs to make sure there are no errors before proceeding.

- 8 Take a backup of the SS_RESOURCE and SS_CONFIGURATION table in the OUCSS Schema.
- 9 Run the following update command to update the SS_RESOURCE table.

On Linux:

```
ant -f CustomInstallBuild.xml UpdateWebAppData -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l DBUpdateTask.log
```

On Windows:

```
ant -f CustomInstallBuild.xml UpdateWebAppData -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l DBUpdateTask.log
```

Important: After running the update command, check the logs to make sure there are no errors before proceeding.

10 Run the OUCSS Web Application installation command (shown below) to deploy the following OUCSS artifacts:

- Security Credentials (CSF Keys)
- extend.oucss.portal.war, OUCSS_Extension.war ,OUCSS_Commercial_Extension.war,OUCSS_Common_Extension.war as shared libraries in WebLogic.
- Create Mail Session.
- Create OUCSS data source.
- Configure the web service connections to point to the edge applications as is configured in InstallProperties.xml.
- OUCSS Web Application.

On Linux:

```
ant -f CustomInstallBuild.xml InstallWebApp -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -
DApplicationName=OUCSSWebApp -DApplicationVersion=2.2.0.0 -
DEARFileName=OUCSSWebApp_EAR.ear -l InstallWebApp.log
```

On Windows:

```
ant -f CustomInstallBuild.xml InstallWebApp -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -
DApplicationName=OUCSSWebApp -DApplicationVersion=2.2.0.0 -
DEARFileName=OUCSSWebApp_EAR.ear -1 InstallWebApp.log
```

Important: After running the installation command, check the logs to make sure there are no errors before proceeding.

- 11 Perform the following Post-Installation checks as defined under *Post-Installation Checklist in OUCSS Installation Guide Chapter 2*)
 - Verify the OUCSS Schema tables.

- Verify the OUCSS Data Source.
- Verify Deployments.
- Verify that OUCSS Mail Session is Created.
- Verify web service connections.
- Verify the OUCSS Security Credential.

12 Also perform the following verification:

- Verify through WebLogic console that OUCSSWebApp is created and is in Active state .
- Verify tokenization of the CCB Edge Application wsdl using the OUCSSWebApp(v2.2.0.0) from Application Deployments in the Oracle Enterprise Manager .
- 13 Log in to the Application using http://<WebappHost>:<WebAppPort>/OUCSSWebApp.

The following screen should appear:

ORACL	.∈ [.] Utilities				
Home Login	Register Retrieve U	ser Outages 🔻			
Login					
Username					
Password					
	<u>L</u> ogin				
Copyright © 199	7, 2016, Oracle and/or	its affiliates. All rights rese	rved.		

- **14** Perform Post Installation steps on OUCSSWebApp as described in the *OUCSS Installation Guide Chapter 2 Post Installation Steps*
- 15 Restart the WC_CustomPortal managed server.

See Chapter 2 "Installation - Installing OUCSS Inbound Services" and "Create Security Key Store" of OUCSS 2.2.0.0 Installation Guide for installing OUCSS Inbound Services application if any of the functionality provided by the OUCSS Inbound Services is required.

See the OUCSS 2.2.0.0 Installation Guide for additional information regarding configuring BPEL flows and Edge applications.

UnInstalling the Web Application

- 1 Perform Step 1 from the procedure in Chapter 6, "Uninstalling OUCSS Portal, in the OUCSS 2.2.0.0 Installation Guide.
- 2 Run the command shown below to uninstall the following OUCSS artifacts:
 - Security Credentials Map
 - OUCSS Mail Session
 - OUCSS Shared libraries and extend .oucss.portal, used to extend OUCSS Web App
 - OUCSS Web Application and corresponding MDS Partition
 - OUCSS datasource

On Linux:

```
ant -f CustomUnInstallBuild.xml UnInstallWebApp -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -
DApplicationName=OUCSSWebApp -DApplicationVersion=2.2.0.0 -
DEARFileName=OUCSSWebApp_EAR.ear -l UninstallWebApp.log
```

On Windows:

```
ant -f CustomUnInstallBuild.xml UnInstallWebApp -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -
DApplicationName=OUCSSWebApp -DApplicationVersion=2.2.0.0 -
DEARFileName=OUCSSWebApp_EAR.ear -1 UninstallWebApp.log
```

Check the logs to make sure there are no errors before proceeding

- **3** Perform Steps 3 through 5 in the "UnInstall OUCSS Portal" section (in Chapter 6 of the *OUCSS 2.2.0.0 Installation Guide*) to delete the OUCSS Schema, restart managed servers, and remove Users and Groups.
- **4** Verify the uninstallation operation:
 - A Log in to the WebLogic console as wlsadminuser/wlsadminpasswd.
 - **B** Choose **portal_domain > Deployments** and verify that the following are no longer listed:
 - com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.9.0)
 - com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.9.0)
 - com.oracle.ugbu.ss.residential.lib(11.1.1,11.1.1.9.0)
 - extend.oucss.portal (11.1.1, 11.1.1*)
 - OUCSSInBound (enterprise application)
 - OUCSSWebApp(v2.2.0.0)
 - C Choose Services > Data Sources and verify that the OUCSSDS data source is no longer present.
 - D Choose Services > Mail Sessions. Verify that the OUCSS mail session is no longer present.
 - **E** Verify that OUCSS DB User is dropped from the database.

Chapter 3

Extending the OUCSS Web Application Sample

This section explains the various components of the OUCSS Web application, and describes how to extend the component using the ExtendOUCSSPortal application.

This approach may require changes in a few configuration files, but does not otherwise modify the sample application so that future upgrades to the sample application are not impacted.

Alternatively, the sample web application itself can be modified using the same general steps described to extend ExtendOUCSSPortal.

To get started, download the OUCSSWebApp2.2.0.0.zip from OTN and extract the contents to a folder on your hard disk drive. Locate and open the the OUCSSWebApp.jws project in JDeveloper. JDeveloper's Application Navigator will display the following project Model and View:

Application Navigator	× 📜 Structure × 🖃
OUCSSWebApp	- 🖬 -
▽ Projects	a 🗞 🖓 - 🏣 - 🗆
	us.oracle.com]
🖶 🗐 View [adc411027	9.us.oracle.com]
🕀 🔂 Application Sour	ces
🗄 🖓 🔂 Resources	
🗄 😓 Web Content	

Various components in the OUCSS web application are grouped in the following directory structure:

- Jspx pages : ./OUCSSWebApp/View/public_html/oracle/ugbu/ss/portal/pages/*
- Page template: ./OUCSSWebApp/View/public_html/oracle/ugbu/ss/portal/pages/template/OUCSSTemplate.jspx

- Managed beans: ./OUCSSWebApp/View/src/java/oracle/ugbu/ss/portal/backing/*
- Menu model: ./OUCSSWebApp/View/public_html/WEB-INF/oucss/*
- Page flows (Unbounded taskflows): ./OUCSSWebApp/View/public_html/WEB-INF/menu/*

To extend the application using ExtendOUCSSPortal, extract the contents of ExtendOUCSSPortal.zip located under <<<OUCSS_Portal_home>>/Install/application and open ExtendOUCSSPortal.jws in JDeveloper. The Application Navigator will show three projects (OUCSSPortalADFLibrary,OUCSSRestExtensionLibrary and OUCSSPortalSharedLibrary):



ExtendOUCSSPortal has the following directory structure under OUCSSPortalADFLibrary to enable security on these taskflows and jspx:

- Create taskflows under \WEB-INF\oracle\ugbu\ss\custom\secure if access is to be restricted to authenticated users (e.g, logged-in users).
- Create taskflows under \WEB-INF\oracle\ugbu\ss\custom\public if the taskflows are to be accessible to all users (including public users).
- Create pages under \oracle\ugbu\ss\custom\pages\secure if the pages should be accessible only to authenticated users (e.g, logged-in users).
- Create pages under \oracle\ugbu\ss\custom\pages\public if the pages should be accessible to all users (including public users).

The permissions to these folders are already set up in jazn.xml of OUCSSWebApp.

Setting up JDeveloper for Development

Adding Shared Libraries to the Project

- 1 Locate *webcenter_WSS.zip* in the installation folder and unzip the contents to <<MW_HOME>>/<<OUCSS_Product_Home>> subfolder.
- 2 Extract <<OUCSS_Product_Home>>/Install/application/OUCSS_Extension.war ,<<OUCSS_Product_Home>>/Install/application/OUCSS_Commercial_Extension.war and <<OUCSS_Product_Home>>/Install/application/OUCSS_Common_Extension.war into a folder.
- 3 Right click on View project > Project Properties > Libraries and ClassPath > Add Library.
- 4 Click New to add a new Library.
- 5 Enter a name for the New Library, For eg: ADF Library as shown below.
- 6 Click Add Entry and add the path to the folder containing the OUCSS jars.(<<OUCSS_Product_Home>>/Install/application/OUCSS_Extension/WEB-INF/lib/oracle.ugbu.ss.shared.*.jar, <<OUCSS_Product_Home>>/Install/application/OUCSS_Common_Extension.war and

<<OUCSS_Product_Home>>/Install/application/OUCSS_Commercial_Extension/WEB-INF/lib/oracle.ugbu.ss.shared.commercial.*.jar).

- 7 Ensure that the **Deployed by Default** box is checked.
- 8 Click OK.

🕹 Project Properties - C:\Subve	🕹 Create Library	X
Search Project Source Paths ADF Model ADF Tack Elaws	Library Name: ADF Library Location: Project	Customi <u>z</u> e Settings
ADF Task How ADF View ADF View Business Components	· 단엽 Class Path: - 만엽 Source Path: - 만엽 Doc Path:	Change
Compiler Dependencies Deployment EJB Module		Add Li <u>b</u> rary <u>A</u> dd JAR/Directory
····· Extension ⊕··· Javadoc ····· Java EE Application		<u>E</u> dit
JSP Tag Libraries JSP Visual Editor Libraries and Classpath Resource Bundle		Share As
Run/Debug/Profile		Move Do <u>w</u> n
Help	Add Entry Add URL Remove Help OK Cancel	OK Cancel

Creating a File System Connection to the Taskflows Directory

If you want to build custom jspx pages that consume OUCSS taskflows, you can also create a File System connection to the directory containing the OUCSS taskflows. This lets you drag-and-drop taskflows to the jspx pages.

- 1 Using the JDeveloper Resource Palette, create a New File System connection as "OUCSS_Taskflows" with the Directory Path pointing to <<<OUCSS_Product_Home>>/Install/application/OUCSS_Extension/WEB-INF/lib.
- 2 Click Test Connection to validate.

Create File System Connection
Choose Application Resources to create a file system connection owned by and deployed with the current application (OUCSSWebApp.jws). Choose IDE Connections to create a connection that can be added to any application.
Create Connection in: O Application Resources
Connection Name:
OUCSS_Taskflows
Directory Path:
:\product_home \Install \application \OUCSS_Extension.war \WEB-INF \lib
Test Connection
Help OK Cancel

- 3 Create another connection for OUCSS_Commercial_Taskflows and OUCSS_Common_Taskflows with directory Path pointing to <<OUCSS_Product_Home>>/Install/application/OUCSS_Commercial_Extension/WEB-INF/lib and <<OUCSS_Product_Home>>/Install/application/OUCSS_Common_Extension/WEB-INF/lib
- 4 Add the required libraries to the project as shown below:



5 Click Add Library when prompted. This adds the library to the OUCSSWebApp.



Building an ADF Web Application

Managed Beans

Managed beans are Java classes which are used to store logic related either to the UI, a taskflow, or to an application in general. Managed beans, along with their properties and methods, can be referenced through EL expressions. They are registered to the application through configuration files.

The following are the managed beans in the OUCSS Web application that are referenced in the top level jspx pages, page templates, and menus:

- OUCSSNavigationBean
- OUCSSResourcesBean
- OUCSSSessionBean
- OUCSSErrorProxyBean
- OUCSSPortalCSRViewBean
- OUCSSPortalLandingPageBean
- OUCSSPortalLoginPsgePhaseBean

These beans handle various application-related logic such as user validation, getting resources, and handling navigation.

They are registered with the main unbounded taskflow (adfc-config.xml).

adfc-config.xml ×				
				R 🕄
General Description Activities	🌭 Managed Beans			+ ×
Control Flows	Name * 🔺	Class *	Scope *	
Managed Beans	root_menu	oracle.adf.view.rich.model.MDSMenuModel	request	
Metadata Resources	oucssNavigationBean	oracle.ugbu.ss.portal.backing.OUCSSNavi	application	
	oucssUserSessionBean	oracle.ugbu.ss.portal.backing.OUCSSSess	session	
	oucssSiteResourcesBean	oracle.ugbu.ss.portal.backing.OUCSSRes	session	1.
	Managed Properties			+ ×
	Name * 🔺	Class	Value	
				1.

Note: For more information on managed beans, registering with different configuration files, and a description of their scope within an application, see <u>Getting Started with Your Web Interface</u> in the Oracle® Fusion Middleware Fusion Developer's Guide for Oracle Application Development Framework documentation.

You can create your own managed beans in the OUCSSPortalADFLibrary project in the ExtendOUCSSPortal application within the proper package structure.

Look and Feel: Page Templates and Skins

The OUCSS Web application sample is packaged with OUCSSTemplate.jspx

(./OUCSSWebApp/View/public_html/oracle/ugbu/ss/portal/pages/template/OUCSSTemplate.jspx), which is used to define the layout of the navigation model and the page content.

The default page template can be customized for a different look and feel, or a new page template can be created. To create a new template in the ExtendOUCSSPortal application:

1 Open the ExtendOUCSSPortal application in JDeveloper.



2 In OUCSSPortalADFLibrary, right-click the folder under oracle.ugbu.ss.custom.pages.public for which you would like the page template created. Click on New>JSF>JSF Page Template.



New Gallery All Technologies Current Project Technologies This list is filtered according to the current Search	ologies project's <u>selected technologies</u> .	
Categories:	Items: Image: ADF Task Flow ADF Task Flow Based on Human Task Image: ADF Task Flow Template Image: ADF Task Template Image: ADF Task Template Image	Show All Descriptions
Help		OK Cancel

- **3** Check the "Create Associated AdFm Page Definition" check box.
- 4 Click **OK** to open a wizard that lets you define various components of page template.

Create JSF Page Template
Creates a new ISE Page Template, and allows you to specify facet references as well as model and view parameters.
Eile Name: NewPageTemplate.jspx
Directory: \ExtendOUCSSPortal\OUCSSPortalADFLibrary\public_html\oracle\ugbu\ss\custom\pages\public Browse
Page Template Name: NewPageTemplate
Use a Quick Start Layout
One Column (Stretched)
Browse
✓ Create Associated ADFm Page Definition
Facet Definitions Attributes Model Parameters
+ ×
Name Description
J.
2
Help OK Cancel

Note: For more information on creating page templates see section 19.3.1, <u>How to Create a Page Template</u>, in the *Oracle*® *Fusion Middleware Web User Interface Developer's Guide for Oracle Application Development Framework*.

5 Update the SS_RESOURCE table if any of the Residential ,Commercial, or Default page templates are changed.

RESOURCE_CD	Description
PORTAL_ST_COMMERCIAL	Site Template to be used for Commercial Customers.
PORTAL_ST_PUBLIC	Site Template to be used for Public Customers
PORTAL_ST_RESIDENTIAL	Site Template to be used for Residential Customers

Note: The Resource table can also be changed through the Admin > Resources screen in OUCSS.

Applying Skins

A skin is a stylesheet based on CSS 3.0 which can be applied to entire application for consistent look and feel. OUCSS Web Application uses the default skin **alta** provided by ADF 12.1.2. The skin used by the application is defined in trinidad-config.xml:

You can create a custom skin by extending one of the skins provided by ADF Faces. To create a custom skin through the ExtendOUCSSPortal project, create a custom CSS file in a folder under the Web Content structure as shown in the following image:



The customization could then be implemented as follows:

1 Create a new CSS file named CustomSkin.css under .\ExtendOUCSSPortal\OUCSSPortalADFLibrary\public_html\oracle\ugbu\ss\custom\pages\public\css folder and edit it with the following CSS specifications:

CustomSkin.css × 💏 🗝 Find 44 1 S.AFDefaultFontFamily:alias (font-family: Arial, Helvetica, sans-serif) 2 3. AFDefaultFont: alias {font-size: 16px} 3 **af|goButton::access-key** {color: red;} **af inputText**::content {background-color:Gray} 4 5

The basic steps required to add a custom skin are described in the topics, "How to Add a Custom Skin to an Application", "How to Register the XML Schema Definition File for a Custom Skin", and "How to Register a Custom Skin" in the <u>Oracle Fusion Middleware Web User Interface Developer's Guide for Oracle Application Development</u> <u>Framework</u> documentation (http://docs.oracle.com/cd/E28280_01/web.1111/b31973/af_skin.htm%23ADFUI331).

2 Create trinidad-skins.xml under META-INF as shown in the following image. This example extends the *alta* skin from ADF.

ExtendOUCSSPortal
✓ Projects
Application Sources
🗊 🗐 oracle.ugbu.ss
adfm.xml
trinidad-skins.xml
庄 📲 Web Content
⊡… 🛅 OUCSSPortalSharedLibrary

The trinidad-skins.xml file would contain the following:

🐼 trii	nida	ad-skins.xml ×
80-	Find	
1		xml version="1.0" encoding="UTF-8" 2
2		<skins xmlns="http://myfaces.apache.org/trinidad/skin"></skins>
3		<skin></skin>
4		<id>customskin.desktop</id>
5		<family>custom</family>
6		<pre><render-kit-id>org.apache.myfaces.trinidad.desktop</render-kit-id></pre>
7		<pre><extends>skyros-vl.desktop</extends></pre>
8		< <u>style-sheet-name</u> >/oracle/ugbu/ss/custom/pages/public/css/CustomSkin.css <mark style-sheet-name>
9		
10		

3 By opening the OUCSSWebApp application in JDeveloper, the trinidad-config.xml file could then be modified to reflect the new skin, as shown in the following images:



🐼 trir	trinidad-config.xml ×				
Find I I I I I I I I I I I I I I I I I I I					
1		<pre><pre>pml version="1.0" encoding="windows-1252"?></pre></pre>			
2		<pre>ctrinidad-config xmlns="http://myfaces.apache.org/trinidad/config"></pre>			
3					
4		<skin-family>custom</skin-family>			
5		<skin-version></skin-version>			
6					

Note: For more information on how to add a custom skin, register a custom skin and use custom skin in the application, see "<u>Introduction to Skins, Style Selectors, and Style Properties</u>" in the *Oracle Fusion Middleware Web User Interface Developer's Guide for Oracle Application Development Framework* documentation.

Creating jspx Pages

OUCSSWebApp uses the OUCSSTemplate under

./OUCSSWebApp/View/public_html/oracle/ugbu/ss/portal/pages/template/* to structure the layout.

- 1 To create new jspx pages in ExtendOUCSSPortal application, open ExtendOUCSSPortal application in JDeveloper.
- **2** To create a new jspx page right-click on the folder in which you wish to create your jspx page in the OUCSSPortalADFLibrary project.
 - Create pages under \oracle\ugbu\ss\custom\pages\secure if the pages should be accessible only to authenticated users (e.g, logged-in users).
 - Create pages under \oracle\ugbu\ss\custom\pages\public if the pages should be accessible to all users (including public users).
- 3 Choose New>JSF>JSF Page on the folder you wish to create the new jspx pages.

ן 💼 🗒 🗶 ו 🎔 ליי ו 🕞 🗒 🔄 י					
	😂 New Gallery 📃 🔀				
	All Technologies Current Project Technologies				
✓ Projects	This list is filtered according to the current p	project's <u>selected technologies</u> .			
OUCSSPortalADFLibrary	Image: Search				
web Content	Categories:	Items: Show All Descriptions			
iania oracie iania ugbu	External Applications	ADF Task Flow			
⊡… <mark>⊡</mark> ss ⊡… <mark>⊡</mark> custom	Projects	🗞 ADF Task Flow Based on Human Task			
🗟 🗝 pages	GBusiness Tier	ADF Task Flow Template			
terre secure terre public	ADF Business Components	B JSF Declarative Component			
Compare Page Flows OUCSSPortalSharedLibrary		JSF Page Launches the Create JSF Page dialog, in which you create a new skeleton JavaServer Faces (.jsp or .jspx) file.			
	Web Tier	To enable this option, you must select a project or a file within a project in the Application Navigator.			
	HTML JSF	ISF Page Flow and Configuration (faces-config.xml)			
	JSP	🚰 JSF Page Fragment			
	Servlets	JSF Page Template			
	Help	OK Cancel			

4 Enter the name and click **OK**.

🕹 Create JSF Page				
Enter the name, directory, and choose a type for the JSF Page. Optionally reference a Page Template to include its content in this page, or apply a <u>Quick Start Layout</u> to add and configure an initial set of layout components.				
File Name: custom_outage.jspx				
Directory: ExtendOUCSSPortal\OUCSSPortalADFLibrary\public_html\orade\ugbu\ss\custom\pages\secure Browse				
⊈				
Render in Mobile Device				
Initial Page Layout and Content				
O Blank Page				
O Page Template Oracle Three Column Layout ▼				
O Quick Start Layout				
One Column (Stretched)				
Browse				
Page Implementation (UI components are not exposed in managed bean)				
Help OK Cancel				

5 Drag and Drop the required components from the Component Palette or taskflows from the shared libraries into the page.

Component Palette ×	Resources	× _
ADF Faces		-
66		٢
ADF Faces		
Common Components		
Bread Crumbs		<u>^</u>
Button		
🧮 Calendar		
Carousel		
🖳 Carousel Item		
Zayout		~
Decorative Box		~
Document		
Grid Cell		
Grid Row		
Inline Frame		
Navigation Pane		
Panel Accordion		
🛃 Panel Border Layout		
Panel Box		
Panel Collection		
🔡 Panel Dashboard		~
Operations		
		0.00

6 Make sure the newly created jspx has a reference to the page template.

```
<?xml version='1.0' encoding='UTF-8'?>
<jsp:root xmlns:jsp="http://java.sun.com/JSP/Page" version="2.1"
          xmlns:f="http://java.sun.com/jsf/core"
          xmlns:h="http://java.sun.com/jsf/html"
          xmlns:af="http://xmlns.oracle.com/adf/faces/rich">
  <jsp:directive.page contentType="text/html;charset=UTF-8"/>
  <f:view>
    <af:document id="dl" title="Custom Outage">
     <af:form id="fl">
       <af:pageTemplate value="#(bindings.pageTemplateBinding.templateModel)" id="wssptl">
          <f:facet name="content">
            <af:panelGroupLayout id="pgll">
              <af:outputText value="Custom Jspx !!!!" id="otl"/>
            </af:panelGroupLayout>
        </f:facet>.
</af:pageTemplate>
      </af:form>
    </af:document>
  </f:view>
</jsp:root>
```

7 Update the SS_RESOURCE table if any new landing pages are created.

RESOURCE_CD	Description
PORTAL_LAND_COMMERCIAL	Landing page for Commercial Login for users with Multiple Accounts.
PORTAL_LAND_COMMERCIAL_SA	Landing page for Commercial Login for user with Single Account.
PORTAL_LAND_DEFAULT	Default Landing page if the context is not configured.
PORTAL_LAND_RESIDENTIAL	Landing page for Residential Login for users with Multiple Accounts.
PORTAL_LAND_RESIDENTIAL_SA	Landing page for Residential Login for user with Single Account.

Note: The Resource table can also be changed through Admin > Resources screen in OUCSS.

Creating Custom Taskflows

To create custom taskflows and pages using the extension project (ExtendOUCSSPortal), see steps 1-3 in the chapter "Extending the OUCSS Portal " in the *Customizing and Extending OUCSS Custom* Portals whitepaper (available for download in the Oracle Utilities Customer Self Service section of the Oracle Utilities Documentation area on the OTN web site at http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html).

Consuming OUCSS Taskflows

To consume an OUCSS taskflow, drop the taskflow from the Resource Palette through to the jspx.

Example: Select the ViewAccountList taskflow from the Resource Palette and drop it on the jspx as a "Region", as shown in the following two images.

Resource Palette ×
🖆 🕶 (🏶 🕶 Name
My Catalogs
▼ IDE Connections
🖨 🖓 OUCSS_Taskflows
庄 📲 🚺 oracle.ugbu.ss.Admin.model_2.1.0.jar
🗊 📲 oracle.ugbu.ss.Admin.view_2.1.0.jar
🕀 📲 👔 oracle.ugbu.ss.base.acadinfo.model_2.1.0.jar
🖶 🖬 oracle.ugbu.ss.base.acadinfo.view_2.1.0.jar
🗄 📲 👖 oracle.ugbu.ss.base.accountphoneinfo.model_2.1.0.jar
🗟 🖬 oracle.ugbu.ss.base.accountphoneinfo.view_2.1.0.jar
🗄 🖬 oracle.ugbu.ss.base.acctcontextinfo.model_2.1.0.jar
🕀 👔 oracle.ugbu.ss.base.acctsearch.model_2.1.0.jar
🖮 👖 oracle.ugbu.ss.base.acctsearch.view_2.1.0.jar
🕀 📲 oracle.ugbu.ss.base.alerts.model_2.1.0.jar
⊞… 👖 orade.ugbu.ss.base.alerts.view_2.1.0.jar
🕀 📲 oracle.ugbu.ss.base.login.model_2.1.0.jar
🖃 📲 oracle.ugbu.ss.base.login.view_2.1.0.jar
DF Task Flows
Change Personal Information
ChangePasswordTaskflow
EmptyTaskFlow
EnrollWrapper I ask-low
Create
Region -
Pynamic Region
Cancel

After dropping the taskflow on the jspx, enter the parameters required for the taskflow as either static values or as an EL expression.

Edit Task Flow Binding			—
Task Flow: Input Parameters Map: Input Parameters	/WEB-INF/com/oracle/ugbu/ss/base/enroll,	/view/taskflows/controller/	ViewAccountList.xml#ViewAccountList
Name webUserID viewAccountURL lob		Value	
* = Required			OK Cancel

Notes:

- Multiple taskflows can be dropped on to the same jspx page.
- When a library is added to the project for the first time, you must click "Add Library" in the JDeveloper confirmation popup.

The following image shows AccountList.jspx source code after ViewAccountList and Enroll taskflows are dropped. Note that the created pages reference the page templates.



Navigation: Creating Menus and Page Flows

An unbounded taskflow is created for every main menu and sub menu item.

The following image shows the unbounded taskflows used in OUCSSWebApp.



An ADF menu is created for every unbounded taskflow created for navigation.

The following image shows the ADF Menus used in OUCSSWebApp:



The following image shows a sample structure for the residential_root_menu:

🛅 residential_root_menu.xml - Structure 🗴				
📌 🖻				
🖃 🗠 🚣 menu				
itemNode - itemNode_Home				
itemNode - itemNode_AccountList				
itemNode - itemNode_NewCustomer				
sharedNode - #{forms_menu}				
····· itemNode - itemNode_UserProfile				
# sharedNode - #{admin_menu}				
•				

OUCSS Web App Menu	Unbounded Taskflow	ADF Menu
Public menu - Main	adfc-config.xml	root_menu.xml
Residential - Main menu	adfc-residential-config.xml	residential_root_menu.xml
Commercial- Main menu	adfc-commercial-config.xml	commercial_root_menu.xml
Admin - Sub menu	adfc-admin-config.xml	admin_menu.xml
Account Details - Sub menu	adfc-details-config.xml	details_menu.xml
Outage - Sub menu	adfc-outage-config.xml	outage_menu.xml
Notifications - Sub menu	adfc_notifications-config.xml	notifications_menu.xml
Old (Supported) Portlets-(Sub menu)	adfc-supportedportlets-config.xml	supportedportlets_menu.xml
Forms Management- Sub menu	adfc-forms-config.xml	forms_menu.xml
Multi Account(Commercial) - Sub menu	adfc-multiaccount-config.xml	multiaccount_menu.xml

The following table shows the mapping between OUCSS menus, the ADF menu item, and its corresponding unbounded taskflow.

To create custom Unbounded taskflows in an ExtendOUCSSPortal application:

- 1 Open the ExtendOUCSSPortal application in JDeveloper.
- 2 In the OUCSSPortalADFLibray project under WEB-INF, create a folder in which the unbounded taskflow is to be created.
- **3** Right-click the folder and choose New > Web tier > JSF > ADF Taskflow.

Al Technologies Current Project Technologies This list is filtered according to the current project's selected technologies. Image: Search Categories: Applications Connections Deployment Descriptors Deployment Profiles Diagrams External Applications External Applications ADF Task Flow Connections Deployment Profiles Diagrams External Applications ADF Task Flow Mathematications Java Projects XML SOA Tier Web Tier Apple Applet ITTML JSF Page Flow and Configuration (faces-config.xm) Image: Servlets All Items	New Gallery						
This list is filtered according to the current project's <u>selected technologies</u> .	All Technologies Current Project Techr	nologies					
Categories: Items: Show All Descriptions Applications Connections Creates a task flow source file whose contents define either a bounded task flow or part of the web application's unbounded task flow. Deployment Descriptors Deployment Profiles Diagrams External Applications Java Projects YML ADF Task Flow Template SOA Tier ADF Task Flow Template Applet JSF Page HTML JSF Page Flow and Configuration (faces-config.xml) Sor JSF Page Template JSF Page Template	This list is filtered according to the current	This list is filtered according to the current project's <u>selected technologies</u> .					
Applications Connections Deployment Descriptors Deployment Profiles Diagrams External Applications Java Projects XML SOA Tier Web Tier Applet HTML ST Applet HTML ST Applet HTML ST ADF Task Flow Based on Human Task DF Task Flow Based on Human Task DF Task Flow Template DSF Declarative Component DSF Page DSF Page Flow and Configuration (faces-config.xml) DSF Page Fragment DSF Page Template DSF Page Template DSF Page Template	Categories:	Items:	Show All Descriptions				
CAternal Applications Java Projects XML SOA Tier Web Tier Applet HTML JSF Dedarative Component JSF Page JSF Page JSF Page Flow and Configuration (faces-config.xml) JSF Page Fragment Servlets All Items V	Applications Connections Deployment Descriptors Deployment Profiles Diagrams External Applications	ADF Task Flow Creates a task flow source file whose conte or part of the web application's unbounded To enable this option, you must select a pro Application Navigator.	ents define either a bounded task flow task flow. oject or a file within a project in the				
Projects XML SOA Tier Web Tier Applet HTML SF Servlets All Items ADF Task Flow Template MDF	Java	ADF Task Flow Based on Human Task					
SOA Tier Web Tier Applet HTML SF JSP Servlets All Items SOA Tier Image: Servlets SF Page Template	Projects XML	ADF Task Flow Template					
Web Tier Applet Applet JSF Page JSF Page Flow and Configuration (faces-config.xml) JSF Page Fragment Servlets All Items Servertets	SOA Tier	💾 JSF Declarative Component					
HTML JSF Servlets All Items	⊡…Web Tier Applet	ISF Page					
JSP Page Fragment Servlets All Items		🔀 JSF Page Flow and Configuration (faces-con	nfig.xml)				
Servlets Signature JSF Page Template	JSP	🕼 JSF Page Fragment					
	Servlets	SF Page Template					
Help OK Cancel	Helo		OK Cancel				

4 Enter the name of the unbounded taskflow. Uncheck "Create as Bounded Taskflow" and press OK.

Create Task Flow		×
Create a task flow sou unbounded task flow.	rce file whose contents define either a bounded task flow or part of the web application's	
A bounded task flow ca designate the bounded	an refer specifically to JSP pages or page fragments, but not both. You can also I task flow to be a train at this time.	
<u>File Name:</u>		
adfc-custom_outage_	config.xml	
Directory:		
ExtendOUCSSPortal\0	UCSSPortalADFLibrary\public_html\WEB-INF\oucss Bi	owse
— 🔄 Create as <u>B</u> ound	ded Task Flow	
Task Flow ID:	task-flow-definition	
Create with Pag	<u>ie</u> Fragments	
Cre <u>a</u> te Train		
Base on Templa	te:	-
Update the	Task Flow when the Template Changes	
Help	ОК	Cancel

5 Drop the required jspx pages in this unbounded taskflows as a "View" Activity (e.g., custom_outage.jspx).

adfc-custom_outage_config.xml ×
🍭 🔍 100% 🔻 Show 🕶 🚺 🔩 🦷 🖳 🚱 🖓 👘
Unbounded Task Flow
,
custom_outage
·

To create a custom ADF Menu Item in the ExtendOUCSSPortal application:

1 To create the corresponding ADF Menu item, right click on the adfc-custom_outage-config.xml and choose Create ADF Menu Model.

Application Navigator ×	_	
ExtendOUCSSPortal	- 🖻 -	
▼ Projects Q 🕅	7-2-1	
OUCSSPortalADFLibrary Application Sources Web Content Web Content WEB-INF WEB-INF WEB-INF Oracle Oracle Oracle Oucss Oucss Oucss Oucss Oucss Oucss Oucs Oucss Oucs Ou	Open Exclude Project Content Delete	
web.xml	La <u>R</u> eformat Validate XML	Ctrl+Alt-L
Page Flows OUCSSPortalSharedLibrary	<u>M</u> ake Reb <u>u</u> ild	Ctrl+Shift-F9 Alt+Shift-F9
	Run (Working <u>Set</u>) Debug (Working Set)	Ctrl-F11
	Compare Wit <u>h</u> Replace <u>W</u> ith))
	 <u>Create ADF Menu Model</u> Update ADF Menu Model 	2
	Create Portlet Entry	

2 Enter the name and click **OK**.

Create ADF Menu Model	
Create a menu model from scratch, in an ADF Face	es faces-config.xml file, or from an existing unbounded task flow in an ADFc application.
<u>F</u> ile Name:	
custom_outage_menu	
Directory:	
ExtendOUCSSPortal\OUCSSPortalADFLibrary\public	ic_html\WEB-INF\menu Browse
Create ADF Menu Model	
• From Existing Unbounded Task Flow	adfc-custom_outage_config.xml
Help	OK Cancel

Application Navigator × 🗄 Structure ×	Acustom_outage_menu.xml ×			
ExtendOUCSSPortal	Find I (
🗢 Projects 💽 💽 🗸 🔤 🗸 🗌	<pre>1 <?xml version="1.0" encoding="windows-1252" ?></pre>			
	2 = <menu xmlns="http://myfaces.apache.org/trinidad/menu"></menu>			
Application Sources	3 Solution (itemNode id="itemNode_custom_outage" label="label_custom_outage"			
🖻 🛅 Web Content	4 action="adfMenu_custom_outage" focusViewId="/custom_outage"/>			
🗈 💼 oracle	5			
	6			
🖨 🛅 menu				
custom_outage_menu.xml				
custom_residential_root_menu.xml				
readme.txt				
🕀 👘 🛄 oracle				
⊞iii oucss				
faces-config.xml				
🔤 trinidad-config.xml				
web.xml				
💾 weblogic.xml				

The following image represents the adfc-custom_outage-config.xml:



Note: For more information on creating itemNode, sharedNodes, and groupNodes, see <u>Using a Menu Model to Create a</u> <u>Page Hierarchy</u>" in the *Oracle*® *Fusion Middleware Web User Interface Developer's Guide for Oracle Application Development Framework* documentation.

3 Update SS_RESOURCE table if any of the Residential or Commercial main menus are changed.

RESOURCE_CD	Description
PORTAL_NAV_COMMERCIAL	Navigation Model URL for Commercial Customers
PORTAL_NAV_PUBLIC	Navigation Model URL for Public Customers
PORTAL_NAV_RESIDENTIAL	Navigation Model URL for Residential Customers

Note: The Resource table can also be changed through the Admin>Resources screen in OUCSS.

Security

OUCSSWeb application are secured using the Oracle ADF Security framework. Oracle ADF Security is built on top of the Oracle Platform Security Services (OPSS) architecture.

Two Enterprise roles–WSSAdminGroup and WSSCSRGroup–are created to allow users belonging to these roles to have access to Admin and CSR modules.

Security configurations are stored in jazn-data.xml, web.xml, adf-config.xml, jps-config.xml, and weblogic.xml.

The following snapshot of jazn-data.xml shows the resources available to the authenticated user and public user. You can access it by right-clicking on OUCSSWebApp in **Application navigator>Secure>Application Roles**.

💾 jazn-data.xml 🗴							
							?
Users Enterprise Roles Application Roles Resource Grants Entitlement Grants	Application Roles Create roles that are specific to Role Name Roles Role	the application. Name: Display Name: Description:	Add users or enterprise roles as member authenticated-role authenticated-role	S.		Security Policy:	OUCSSWebApp
		Mappings Name of Resources ar Resource oracle.ugbu.s AVEP-INF/con	Grants or Type nd Entitlements ss.portal.pages.* m/orade/kubu/ss/.*		Type RegionPermission TaskFlowPermission	Actions view view	
		oracle.ugbu.s /WEB-INF/ora oracle.ugbu.s	ss.portal.commercial.pages.* ade/ugbu/ss/custom/secure/.* ss.custom.pages.secure.*		RegionPermission TaskFlowPermission RegionPermission	view view view	
Overview Source Hist	tory						1
							_

Application Roles			Security Policy: OUCSSW
ples			
Roles	the application. Add users of enterprise roles as members.		
ants (🎁 Role Name)		
Stants Delas -	Name: anonymous-role		
Roles			
anonymous-role	Display Name: anonymous-role		
authenticated-role	Description:		
	Mappings Grants		
	riappings Grants		
	Mame or Type		
	Resources and Entitlements		
	Deserves		
	Resource	Туре	Actions
	/WEB-INF/oracle/ugbu/ss/custom/public/.*	Type TaskFlowPermission	Actions view
	/WEB-INF/oracle/ugbu/ss/custom/public/.* oracle.ugbu.ss.custom.pages.public.*	Type TaskFlowPermission RegionPermission	Actions view view
	Resource /WEB-INF/orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef	Type TaskFlowPermission RegionPermission RegionPermission	Actions view view view
	NEB-UNF/orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.public.*	Type TaskFlowPermission RegionPermission RegionPermission RegionPermission	Actions view view view view
	VIEB-INF/orade/ugbu/ss/custom/public/.* orade.ugbu.ss.oustom.pages.public.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate	Type TaskFlowPermission RegionPermission RegionPermission RegionPermission TaskFlowPermission	Actions view view view view view
	Resource /WEB-NH*/orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate Register	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission	Actions view view view view view view
	NEB-3UH/forade/ugbu/ss/custom/public/.* orade.ugbu.ss.portal.pages.public.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate Register ForootPagswordTaskFlow	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission	Actions view view view view view view view
	Resource /WEB-IN*/oracle/ugbu/ss/custom/public/.* oracle.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef oracle.ugbu.ss.portal.pages.public.* OUCSSTaskiflow OUCSSTaskiflow Register ForgotPasswordTaskiflow OutaorTaskiflow	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission	Actions view view view view view view view view
	Resource /WEB-INF/orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate Register ForgoPassowrdTaskFlow OutsgeTaskflow OutsgeTaskflow	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission	Actions view
	Resource /WEB-INF/Jorade/ugbu/ss/custom/public/.* orade.ugbu.ss.portal.pages.public.* orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate Register ForgotPasswordTaskFlow OutageTaskflow ReportOutageTaskflow ReportOutageTaskflow	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission BenicoPermission	Actions view
	Resource /WEB-NH*/orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate Register ForgotPasswordTaskFlow OutageTaskflow ReportOutageTaskflow orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pages.outageTablePageDef orade.ugbu.ss.portal.pageSu.ss.portal.pageSu.st.pageTablePageDef orade.ugbu.ss.portal.pageSu.ss.portal.pageSu.ss.portal.pageTablePageDef orade.ugbu.ss.	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission RegionPermission RegionPermission	Actions view
	NEB-UNF /orade/ugbu/ss/custom/public/.* orade.ugbu.ss.outan.pages.public.* orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate Register ForgoIPasswordTaskFlow OutageTaskflow OutageTaskflow ReportOutageTaskflow orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission RegionPermission RegionPermission	Actions view
	Resource /WEB-INF /orade/ugbu/ss/custom/public/.* orade-ugbu.ss.custom.pages.public.* orade-ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef PorgotPasswordTaskFlow OutageTaskflow ReportOutageTaskflow orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission RegionPermission RegionPermission RegionPermission	Actions view
	Resource //WEB-INF /orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* //wEB-INF. orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef //wEB-INF. OUCSSTaskflow/Template //wEB-INF. OUCSSTaskflow/Template //wEB-INF. Register //web-INF. PorgotPasswordTaskFlow //web-INF. OutsgeTaskflow //web-INF. orade.ugbu.ss.portal.pages.outage.OutageTablePageDef //orade.ugbu.ss.portal.pages.outage.OutageMapageDef orade.ugbu.ss.portal.pages.outage.OutageMapageDef //orade.ugbu.ss.portal.pages.outage.OutageMapageDef orade.ugbu.ss.portal.pages.outage.OutageMapageDef //weblicOutagePageDef orade.ugbu.ss.portal.pages.outage.OutageMapageDef //weblicOutagePageDef orade.ugbu.ss.portal.pages.outage.OutageMapageDef //weblicOutagePageDef orade.ugbu.ss.portal.pages.outage.outage.outageMapageDef //weblicOutagePageDef OutageTaskflow //weblicOutagePageDef //weblicOutagePageDef	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission RegionPermission RegionPermission RegionPermission	Actions view
	Resource /WEB-NIF/orade/ugbu/ss/custom/public/.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef OUCSSTaskflowTemplate Register ForgotPasswordTaskFlow OutageTaskflow OutageTaskflow orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.ReportPublicOutagePageDef orade.ugbu.ss.portal.pages.outage.ReportPublicOutagePageDef orade.ugbu.ss.portal.pages.outage.ReportPublicOutagePageDef orade.ugbu.ss.portal.pages.outage.ReportPublicOutagePageDef orade.ugbu.ss.portal.pages.outage.ReportPublicOutagePageDef	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission RegionPermission RegionPermission RegionPermission TaskFlowPermission	Actions view view
	Resolute VIEB-INF /orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.public.* OUCSSTaskflow Template Register ForgotPasswordTaskFlow OutageTaskflow roade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef loginTaskflow /com/orade/ugbu/ss.pointal.pages.outage.ReportPublicOutagePageDef orade.ugbu.ss.portal.pages.outage.ReportPublicOutagePageDef loginTaskflow	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission RegionPermission TaskFlowPermission TaskFlowPermission	Actions view
	Resource //WEB-IN*//orade/ugbu/ss/custom/public/.* orade.ugbu.ss.custom.pages.public.* orade.ugbu.ss.portal.pages.template.OUCSSTemplatePageDef orade.ugbu.ss.portal.pages.public.* OUCSSTaskflowTemplate Register ForgoIPassowofTaskFlow OutageTaskflow ReportOutageTaskflow orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageTablePageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.OutageMapPageDef orade.ugbu.ss.portal.pages.outage.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef orade.ugbu.ss.portal.pages.login.loginPageDef	Type TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission TaskFlowPermission RegionPermission RegionPermission TaskFlowPermission RegionPermission TaskFlowPermission RegionPermission RegionPermission	Actions view

Note: For more information on enabling security in an ADF application, see "<u>Enabling ADF Security in a Fusion Web</u> <u>Application</u>" in the Oracle® Fusion Middleware Web User Interface Developer's Guide for Oracle Application Development Framework documentation.

Testing and Deployment

All testing and deployment requires that WEB-INF/weblogic.xml contains references to the com.oracle.ugbu.ss.lib, com.oracle.ugbu.ss.commercial.lib, and extend.oucss.portal shared libraries, as shown in the following image.

weblogic.xm	⊎weblogic.xml ×						
					? ^		
Application	Application						
Container							
Directories	Library Name 🔺	Specification Version	Implementation Version	Match Version Exactly			
JSP	com.oracle.ugbu.ss.lib			false			
Libraries	com.oracle.ugbu.ss.commercial.lib			false			
References	extend.oucss.portal			false	111		
Security							
Session							
Work Priority							
Work Phoney							

Testing the Integrated WebLogic Server in JDeveloper

Pre-testing Checklist

Before running on the Integrated WebLogic server, check that all of the following files, libraries, datasources, mail sessions, keys, and users are in place.

- Ensure that the following shared libraries are deployed on the Integrated WebLogic server:
 - <OUCSS_Product_home>>\ Install\application\OUCSS_Extension.war
 - <OUCSS_Product_home>>>\ Install\application\OUCSS_Commercial_Extension.war
 - <OUCSS_Product_home>>\ Install\application\OUCSS_Common_Extension.war
 - <OUCSS_Product_home>>\ Install\application\extend.oucss.portal.war

Note: If any new extensions are added to OUCSSPortalADFLibrary project of ExtendOUCSSPortal application, then a new extend.oucss.portal.war must be generated and deployed. For details see the procedure in the "Deploying the extend.oucss.portal.war as Shared Library" chapter of the *Customizing and Extending OUCSS Custom Portals* whitepaper available at http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html.

• Check that the OUCSSDS datasource is created and that it points to the OUCSS schema where the OUCSS tables are created.

Data	Data Sources (Filtered - More Columns Exist)					
Ne	New v Delete Showing 1 to 3 of 3 Previous 1					
□ Name ŵ Type JNDI Name Targets						
	mds-CustomPortalDS	Generic	jdbc/mds/CustomPortalDS	CSSServer		
	mds-owsm	Generic	jdbc/mds/owsm	AdminServer, CSSServer		
	OUCSSDS	Generic	jdbc/OUCSSDS	CSSServer		
Ne	New Delete Showing 1 to 3 of 3 Previous N					
Ne	mds-CustomPortaIDS mds-owsm OUCSSDS wv Delete	Generic Generic Generic	jdbc/mds/CustomPortalDS jdbc/mds/owsm jdbc/OUCSSDS	CSSServer AdminServer, CSSServer CSSServer Showing 1 to 3 of 3 Previous Next		

• Check that the OUCSS Mail Session is created.

Mail Sessions					
Ne	WClone	Delete			
	Name 🚕	Properties			
	OUCSS	mail.smtp.port=25			
Ne	New Clone Delete				

• Check that the WSSAdminGroup and WSSCSRGroup groups are created

Grou	Groups						
Ne	New Delete Showing 1 to 10 of 12 Previous Next						
	Name 🕎	Description	Provider				
	AdminChannelUsers	AdminChannelUsers can access the admin channel.	DefaultAuthenticator				
	Administrators	Administrators can view and modify all resource attributes and start and stop servers.	DefaultAuthenticator				
	AppTesters	AppTesters group.	DefaultAuthenticator				
	CrossDomainConnectors	CrossDomainConnectors can make inter-domain calls from foreign domains.	DefaultAuthenticator				
	Deployers	Deployers can view all resource attributes and deploy applications.	DefaultAuthenticator				
	Monitors	Monitors can view and modify all resource attributes and perform operations not restricted by roles.	DefaultAuthenticator				
	Operators	Operators can view and modify all resource attributes and perform server lifecycle operations.	DefaultAuthenticator				
	OracleSystemGroup	Oracle application software system group.	DefaultAuthenticator				
	WSSAdminGroup		DefaultAuthenticator				
	WSSCSRGroup	CSR Group	DefaultAuthenticator				
Ne	New Delete Showing 1 to 10 of 12 Previous Next						

• Check that WSSAdmin and WSSCSR users are created.

Ne	New Delete Showing 1 to 4 of 4 Previous Nex				
	Name 🕎	Provider			
	OracleSystemUser	Oracle application software system user.	DefaultAuthenticator		
	weblogic This user is the default administrator.		DefaultAuthenticator		
	WSSAdmin 🔨 OUCSS Admin		DefaultAuthenticator		
	WSSCSR		DefaultAuthenticator		
New Delete Showing 1 to 4 of 4 Previous Next					

- Check that the CSF-Keys are created on the WebLogic server:
 - OUCSS_XAI_BASIC_KEY To connect to CCB web services
 - OUCSS_INTG_BASIC_KEY To connect to BPEL web services
 - OUCSS_OUNC_BASIC_KEY To connect to Notification web services

If any or all of the keys are missing, they can be created on an Integrated WebLogic server through wlst commands:

• Connect to Integrated WebLogic server with the following wlst command:

```
connect("<<username>>","<<password>>","http://<<IntegratedWebLogic server>>:<<port>>")
```

• Run following wlst commands for each key:

```
createCred(map='oracle.wsm.security', key='<key name>', user='<user name>',
password=<password>')
```

• Check that connections.xml is detokenized to point to the respective CCB and SOA servers.

Tokens	Interpretation
OUNMSPROTOCOL://OUNMSHOST:OUNMSPORT	SOA server name ,port and protocol that hosts BPEL service that connects to NMS
OUMDMPROTOCOL://OUMDMHOST:OUMDMPORT	SOA server name ,port and protocol that host BPEL service that connects to MDM

OUNCPROTOCOL://OUNCHOST:OUNCPORT	SOA server name ,port and protocol that host BPEL service related to Notifications
CCBorSOAPROTOCOL://CCBorSOAHOST:CCBorSOAPORT	CCB server name,port and protocol or SOA server name and port and protocol to connect to optional BPEL flows
CCBorNMSPROTOCOL://CCBorNMSHOST:CCBorNMSPORT	CCB server name and port or SOA server name and port and protocol that host BPEL service that connects to NMS Eg: Alerts service
OUCSSMISCPROTOCOL://OUCSSMISCHOST:OUCSSMISCPORT	SOA servername,port and protocol for miscellaneous services. Eg: OUCSSReadProcessService
mapViewerPROTOCOL://mapViewerHOST:mapViewerPORT	Map View connection
OfferServiceConditionPROTOCOL://OfferServiceConditionHOST:OfferServiceConditionPORT	Server name and port where Offers service is deployed

Running the Test

In JDeveloper, open the OUCSSWebApp project by right-clicking on index.html and choosing Run.

Application Navigato	r × 📜 Structure ×			_
CUCSSWebApp			•	- 6
✓ Projects		<u>s</u>	7-5	-
Model [adc4110279 View [adc4110279 Application Sou Resources Web Content WEB-INF Page Flows index X	9.us.orade.com] .us.orade.com] urces s <u>O</u> pen <u>Exclude Project Content</u> <u>D</u> elete			
L.	<u>R</u> eformat	Ctrl+Alt-L		
	<u>F</u> ind Usages Refa <u>c</u> tor	Ctrl+Alt-U ▶		
*	Run (Wor <u>) ing S</u> et) De <u>b</u> ug (Working Set) <u>U</u> pdate	Ctrl-F11		
	<u>V</u> ersioning Compare Wit <u>h</u> Replace <u>W</u> ith	> > >		

The test is successful if the default browser page opens:

ORACLE Utilities				
Home Login Register Retrieve User Outages –				
Login				
Username				
Password Login				
Copyright © 1997, 2016, Oracle and/or its affiliates. All rights reserved.				

Deploying to a Standalone WebLogic Server Using JDeveloper

The EAR file can also be deployed to a Standalone WebLogic server from JDeveloper.

To faciliate deployment a number of required artifacts must be installed on the Standalone WebLogic server. For a checklist of the artifacts, see the "<u>Pre-testing Checklist</u>" topic elsewhere in this document.

To deploy to a standalone WebLogic server:

- 1 Ensure that the WC_CustomPortal managed server is up and running.
- 2 In JDeveloper, open the Resource Palette window. Under IDE Connections, create a new connection to your Standalone WebLogic server.

Resource Palette	х			
😭 🕶 і 💏 🕶 Name				۷
My Catalogs				
IDE Connections				
🖃 🚽 Application Serve	er -			
🗄 🛃 IntegratedW	9	New Application Server Conn	ection	1
🗄 🖓 File System	—	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
		<u>F</u> ilter		
		Advanced Search		
	60	<u>R</u> efresh	Ctrl-R	
		E <u>x</u> port		
	_			

A wizard opens.

Create Application Server Connection - Step 1 of 5				
Name and Type				
Rame and Type	Specify a unique name and type for the connection. The name must be a valid Java identifier.			
 <u>Authentication</u> Configuration 	Create connection in: Resource Palette			
- Test	Connection Name:			
U Finish	StandaloneDev			
	Connecțion Type: WebLogic 10.3			
Help	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel			

- **3** Follow the wizard to provide the appropriate connection information for the Standalone WebLogic server. In this example, the connection name is **StandaloneDev**.
- **4** Test the connection:
- 5 In the JDeveloper Application Navigator, right-click the application name and choose **Deploy>Select the deployment profile>Deploy to Application Server>Next**.

👌 Deploy OUCSSWebApp_	EAR 🔀
Deployment Action	010101010101010101010101010
Deployment Action	Select a deployment action from the list below.
Summary	Deploy to Application Server Deploy to EAR Create an archive and deploy it on a remote Application Server.
Help	< Back Next > Einish Cancel

6 Select the name of the connection ("StandaloneDev" in this example) to deploy the application.

Seploy OUCSS_WebApp_WAR				
Weblogic Options		0101010101010101		
Deployment Action Select Server Weblogic Options	Indicate which server instances to Deploy to all instances in the d Deploy to selected instances in Deploy to selected instances in	o target for deployment. Iomain In the domain		
O Summary	AdminServer CSSServer This module can optionally be regis Deploy as a standalone Applica Deploy as a shared Library	Servers Servers stered as a shared library ation	Status RUNNING RUNNING	
Help	-	< <u>B</u> ack Next	> Einish Cancel	

7 Test the application by invoking http://<<Standalonehost>>:<<StandalonePort>>/OUCSSWebApp.

🎃 Deploy OUCSS_WebApp	_WAR
Select Server	
Peployment Action	Application Servers:
😠 Select Server	IntegratedWebLogicServer
Weblogic Options	StandaloneDev
O Summary	
N	
	✓ Overwrite modules of the same name
Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish Cancel

Deploying to a Standalone WebLogic Server Through WebLogic Enterprise Manager (EM)

OUCSS Web Application comes with a default deployment profile named OUCSSWebApp_EAR. If any modifications are made to the OUCSSWebApp, this deployment profile can be used to generate the ear archive file for deployment on an application.

You can also create a new deployment profile as follows:

- 1 Right click on OUCSSWebApp>Application Properties>Deployment>New.
- 2 Select EAR file as the Archive Type, enter the name of the archive, and click OK.

Application Properties - C:\Subversion_Code\SPL\SS\2.1.0\portlet_applications\Portals\OUCSSWebApp\OUCSSWebA 🔀				
🦚 Search	Deployment			
Application Content Customization Libraries Deployment Repository Depository	Create Deployment Profile			
Run WS Policy Store	EAR File Name: OUCSSWebAppEAR			
	Description: Creates a profile for deploying the Java EE enterprise archive (EAR) file to an application server. The EAR file consists of the application's assembled WAR, EJB JAR, and client JAR files.			
	Help OK Cancel			
	□ <u>Credentials</u> Decide whether to migrate the following security objects. ✓ Users and <u>Groups</u>			
Help	OK Cancel			

Application Properties - C:\Su	bversion_Code\SPL\SS\2.1.0\portlet_applications\Portals\OUCSSWebApp\OUCSSWebA
(#	Deployment
Application Content Customization Libraries Deployment Repository Resource Bundles Run WS Policy Store	○ Use Qustom Settings Customize Settings ③ Use Application Settings Deployment Profiles: □ □ OUCSSWebApp_EAR (EAR File) Edit □ Delete Delete
	Security Deployment Options Decide whether to overwrite the following security objects if they were previously deployed. Application Policies Gredentials Decide whether to migrate the following security objects. Users and Groups
Help	OK Cancel

Note: See <u>Deploying Fusion Applications</u> in the Oracle® Fusion Middleware Fusion Developer's Guide for Oracle Application Development Framework documentation for additional information on creating deployment profiles and deploying to Application servers.

Deploying on a Standalone WebLogic server through EM assumes required artifacts and a managed server are already installed as described in <u>Installing on a WebLogic Server</u>.

For a checklist of the artifacts, see the "Pre-testing Checklist" topic in this document.

Note: If any new extensions are added to the OUCSSPortalADFLibrary project of the ExtendOUCSSPortal application, a new extend.oucss.portal.war must be generated and deployed. See the steps in the chapter "Deploying the extend.oucss.portal.war as Shared Library" chapter in the *Customizing and Extending OUCSS Custom Portals* whitepaper, available in the OUCSS section of the OTN web site at http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html.

- **3** Deploy to an EAR archive file as follows:
 - A Select OUCSSWebApp application from the Application Navigator.
 - B Right-click on OUCSSWebApp>Deploy>OUCSSWebApp_EAR.

Application Nav	igat	or × 📜 Structure ×	_	
OUCSSWebApp				
✓ Projects	_	New <u>P</u> roject		
	P	<u>N</u> ew	Ctrl-N	
⊡ 🗐 View [adc411		Open Project		
		Close Application		
	×	Delete Application		
		Rename Application		
	6	Find Application Files		
		Show Overview		
	Y	Filter Application		
	<u> </u>	Secure	•	
		Deploy	•	OUCSSWebApp_EAR
	L.	Reformat	Ctrl+Alt-L	<u>1</u> OUCSSWebApp_EAR to IntegratedWebLogicServer
		Organize Imports	Ctrl+Alt-O	2 OUCSSWebApp_EAR to EAR file
	—	organize importo		3
		Commi <u>t</u> Working Copy		
		Versioning	•	
		Compare Wit <u>h</u>	•	
		Replace <u>W</u> ith	•	
		Application Properties		

- 4 Ensure that the WC_CustomPortal managed server is up and running.
- 5 Log in to WebLogic Server EM with admin credentials (wlsadminuser/wlsadminpw).
- 6 Expand WebLogic Domain>portal_domain.
- 7 Right click on WC_CustomPortal(managed server)>Application Deployment>Deploy.
- 8 Follow the wizard to deploy the generated EAR file, specifying the MDS partition names.
- **9** To test the application, invoke http://<<Standalonehost>>:<<StandalonePort>>/OUCSSWebApp.