Oracle Utilities Customer Self Service

Installation Guide Release 2.2.0.0 **E78231-01**

August 2016 (Updated January 2022)



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Chapter 1

Overview

This guide describes the installation steps that must be completed to use Oracle Utilities Customer Self Service integrated with Oracle Utilities Customer Care and Billing and Oracle Utilities Meter Data Management.

Additional Resources

For more information on products related to OUCSS installation, see the following documents:

Resource	Location
Oracle WebCenter Portal documentation	http://www.oracle.com/technetwork/middleware/webcenter/portal/document ation/index.html http://docs.oracle.com/cd/E29542_01/webportal.htm#webcenter
Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 12.1.1 Media Pack Install Guide and Implementation Guide	Refer to Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 12.1.1 Media Pack documentation located on the Oracle Software Delivery Cloud.
Oracle Utilities Meter Data Management Installation Guide for Release v2.1.0.3	Refer to Oracle Utilities Meter Data Management installation documentation located on the Oracle Software Delivery Cloud.
Oracle Utilities Customer Care and Billing Installation Guide for Release v2.4.0.3	Refer to Oracle Utilities Customer Care and Billing installation documentation located on the Oracle Software Delivery Cloud.
Oracle Utilities Network Management System Installation Guide for Release v1.12.0.2	Refer to NMS installation documentation located on the Oracle Software Delivery Cloud.
Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 12.1.1 Media Pack with latest patch level.	Refer to Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 12.1.1 Media Pack documentation located on the Oracle Software Delivery Cloud.

Oracle SOA Suite documentation	http://www.oracle.com/technetwork/middleware/soasuite/documentation/soa 11gdoc-2212842.html
Oracle MapViewer documentation	http://www.oracle.com/technetwork/middleware/mapviewer/documentation/index.html
Whitepaper: Installing Custom Managed Server for OUCSS Portal	Available for download in the Oracle Utilities Customer Self Service section of the <u>Oracle Utilities Documentation</u> area on the Oracle Technology Network (OTN) web site (<u>http://docs.oracle.com/cd/E72219_01/documentation.html</u>).
Web Services Security	For more information about Web services security using Oracle Fusion Middleware 12c refer to https://docs.oracle.com/middleware/12211/cross/webservicestasks.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</u> <u>Documentation</u> area on the Oracle Technology Network (OTN) web site (<u>http://docs.oracle.com/cd/E72219_01/documentation.html</u>, then choose the Oracle Utilities Customer Self Service

link).

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
DDL	Data Definition Language
MDS	Metadata Services
OUI	Oracle Universal Installer
RCU	Repository Creation Utility
EAR	Enterprise Archive
WC	WebCenter
WLS	WebLogic Server
OUCSS Portal	OUCSS Self Service Portal build on WebCenter Portal Framework

Chapter 2

Installation

Software Requirements

The following software must be installed and configured prior to installation of Oracle Utilities Customer Self Service:

- Oracle WebCenter release 12.2.1 on WebLogic server 12.2.1.
- Oracle Utilities Customer Care and Billing release 2.5.0 Service Pack 2.

If integrating Oracle Utilities Meter Data Management:

- Oracle Utilities Meter Data Management release 2.1.0 Service Pack 3.
- Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 12.1.1 Media Pack with latest patch level.

If you integration with Oracle Utilities Network Management System:

- Oracle Utilities Network Management System Application version v1.12 Service Pack 2.
- Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 12.1.1 Media Pack with latest patch level.
- See other requirements in the CCB-MDM Integrated Flows and CCB-NMS Integrated Flows section of this guide.
- Oracle MapViewer 11.1.1.7.2 on WebLogic service 10.3.6 for Outage Map.

Pre-Installation Tasks

Configuring Edge Applications

To configure edge applications, see the configuration information in the *Oracle Utilities Customer Care and Billing Implementation Guide*, including the sections related to Oracle Utilities Meter Data Management (if integrating that product).

Domain Topology

Oracle recommends separate WebLogic domains for portal applications in which the OUCSS Portal application and OUCSS Inbound Services can be deployed (e.g., **portal_domain**, as well as a separate domain for installation of CSS BPEL flows and OUNC Flows, e.g., **soa_domain**).

Installation on SSL-Enabled Servers

The Admin server port in the installation properties can be specified with either the unsecured port or the SSL listening port. If the Admin server is enabled and the same is specified in the installation properties file, the installation will be carried out with the SSL port of the Admin server using the t3s (t3+SSL) protocol.

Cluster Install

- 1 Choose your enterprise topology and perform installation of WebCenter in a clustered environment per Oracle WebCenter installation guidelines (https://docs.oracle.com/middleware/1221/core/CMEDG/toc.htm).
 - Ensure that Custom Portal managed servers for clusters are created using the portal template as described in the *Installing a Managed Server for Custom Portals Whitepaper*, available for download in the Oracle Utilities Customer Self Service section of the <u>Oracle Utilities Documentation</u> area on the Oracle Technology Network (OTN) web site (<u>http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html</u>).

Note: Operating System User for installation of OUCSS: Depending upon your operating system you can perform installation of OUCSS with any user having permission to execute Middleware scripts. It is recommended not to use root/administrator user for OUCSS and WebCenter installations. Its suggested to maintain a separate user for these installations.

- 2 Make sure the load balancer is installed on a separate managed server to route the requests between nodes of the cluster.
- **3** Verify that the following properties are set in InstallProperties.xml found under <<OUCSS_PRODUCT_HOME>>/config folder.
 - Property <clusterOrServer> is set to "Cluster" in for <oucssApplication><oucssPortal> configuration. (This is optional property but needs to be set for Cluster Install.)
 - Property <clusterOrServerName> is set to Cluster Name (instead of managed server name) for <oucssApplication><oucssPortal> configuration.
- 4 Ensure that Admin Server and managed servers in Portal cluster are up and running.
- 5 Continue with verification by following steps 2 to 7 in the next topic, Standalone Install.

Standalone Install

1 Ensure that Portal managed servers are up and running (AdminServer, WC_Portal).. To install and setup WebCenter Portal 12c, please see Fusion Middleware Installing and Configuring Oracle WebCenter Portal document available on Oracle Technology Network (OTN) website (http://docs.oracle.com/middleware/12211/lcm/INSWC/toc.htm#INSWC).

Note: Operating System User for installation of OUCSS: Depending upon your operating system you can perform installation of OUCSS with any user having permission to execute Middleware scripts. It is recommended not to use root/administrator user for OUCSS and WebCenter installations and maintain a separate user.

2 Ensure that required edge applications (CCB, MDM,NMS etc) are installed and configured.

Note: The installation script performs the detokenization of the URLs according to edge application installed in your environment.

- 3 Configure InstallProperites.xml for the Offers Web Service connection,
 - Configure properties under /oucssApplication/oucssInbound in InstallProperties.xml if OUCSS Inbound Service will be installed to use OTB Offers Web Service.

Note: OUCSS Inbound Services application needs to install separately. See <u>Installing OUCSS Inbound Services</u> section for more details.

- Configure ExternalOfferService_URL with the custom Offers Web Service WSDL if OUCSS Inbound Service will not be installed or OTB Offer Service is not used.
- 4 Node Manager must be running to start and stop administration servers and managed servers through the Fusion Middleware Control or the Oracle WebLogic Server Administration Console.

Where \$MW HOME refers to the directory in which WebCenter is installed.

To start the Node Manager (subsequent starts), navigate to the domain home/bin for example WL_HOME/user_projects/domains/portal_domain/bin, and then run the the following command based on the OS:

On UNIX/Linux:

./startNodeManager.sh

On Windows:

./startNodeManager.cmd

- 5 Before starting OUCSS deployment, verify that the Admin and Portal Managed Servers are up and running from the WebLogic admin URL http://<WLSAdminHost>:<WLSAdminServerPort>/console
- 6 Optional: *[Required only if Outage functionality is enabled]* Install and Configure MapViewer for Outage Map. For more details on MapViewer installation see the appendix <u>Installing and Configuring Oracle MapViewer</u> section of this document.

Installing OUCSS Portal

Install Steps

This procedure describes the default installation method for OUCSS Portal solution that extends WebCenter Portal 12c with OUCSS taskflows.

To perform the default OUCSS installation:

- 1 Download <OUCSS-PortalInstall>.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.

Note: Contents of the webcenter_WSS.zip can be extracted to any target location, but the <<OUCSS_Product_Home>>> directory should not be deleted after installation. The <<OUCSS_Product_Home>>> folder contains your OUCSS applications, configuration, and installation folders and files (/bin, /config, /Install).



3 Open a terminal/cmd window and set the MW_HOME to middleware home and PRODUCT_HOME to <<OUCSS_Product_Home>>:

Windows example:

SET MW_HOME=D:\Oracle\Middleware

```
SET PRODUCT_HOME=D:\Oracle\Middleware\OUCSS22
```

echo %PRODUCT HOME%

Echo should return PRODUCT_HOME as D:\Oracle\Middleware\OUCSS22

Linux example:

export MW HOME=/u01/Oracle/Middleware

export PRODUCT HOME=/u01/Oracle/Middleware/OUCSS22

echo \$PRODUCT HOME

Echo should return PRODUCT_HOME as /u01/Oracle/Middleware/OUCSS22

4 Set the WebLogic environment by running the *setWLSEnv.cmd* script (on Windows) or *setWLSEnv.sh* script (on Linux) depending upon your environment shell. The scripts *setWLSEnv.sh* or *setWLSEnv.cmd* are located in <<<MW_HOME>>\wlserver\server\bin (where MW_HOME is the directory in which WebLogic and WebCenter components are installed). After running the script *setWLSEnv*, verify that the **wlserver** environment is set in your **classpath** and **path** environment variables.

On Windows:

call %MW HOME%\wlserver\server\bin\setWLSEnv.cmd

On UNIX/Linux:

source \$MW HOME/wlserver/server/bin/setWLSEnv.sh

Note: Depending upon your environment shell make sure to execute the appropriate command to execute *setWLSEnv.sh*.

5 Execute the following command to change directory to PRODUCT_HOME/bin:

On Windows:

cd %PRODUCT_HOME%\bin

On UNIX/Linux:

cd \$PRODUCT_HOME/bin

6 Update the <PRODUCT_HOME>/config/InstallProperties.xml file and configure values appropriate to your environment

See <u>Appendix B</u> for a sample *InstallProperties.xml* file and an explanation of the properties and elements available in the file.

- 7 Verify that Admin and WC_Portal servers are up and running before proceeding.
- 8 Run the DB installation command to create the OUCSS DB Schema and Data Source.

Ensure that the tablespace exists with "USERS" on the DB prior to executing this step. If the "USERS" tablespace is not available, create the tablespace with the following query:

```
CREATE TABLESPACE USERS
DATAFILE '/<<DB_TABLESPACE_PATH>>/USERS.dat'
SIZE 100M
REUSE
AUTOEXTEND ON NEXT 10M MAXSIZE 2000M;
```

Note: OUCSS DB Schema and required tables are created in the database only if the /oucssInstall/oucssApplication/oucssPortal/database/createDB property set to **true** in InstallProperties.xml.

On Windows:

```
ant -f InstallBuild.xml DBInstallPortal -
DInstallProperties=%PRODUCT HOME%\config\InstallProperties.xml -l DBInstallPortal.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml DBInstallPortal -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml | tee DBInstallPortal.log
```

Note: After running above command, verify that the DBInstallPortal.log does not contain any errors. Fix any errors in the log and rerun the command.

9 Run the following command to import default OUCSS users and groups into the WebLogic embedded LDAP.

Note: This command is valid only if you are using a WebLogic embedded LDAP. On other LDAP, manually create the seeded groups (WSSAdminGroup and WSSCSRGroup) and users (WSSAdmin and WSSCSR).

On Windows:

```
ant -f InstallBuild.xml importUsersAndGroups -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l
importUsersAndGroups.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml importUsersAndGroups -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee
importUsersAndGroups.log
```

Note: After running above command, verify that the importUsersAndGroups.log does not contain any errors. Fix any errors and rerun the command.

10 Verify user and group creation by logging in to the Oracle WebLogic Server console as WebLogic Administrator.

Select portal_domain > Security Realms > myrealm > Users and Groups.

Verify that the users WSSAdmin and WSSCSR were created. Change the password of WSSAdmin and WSSCSR users. See the <u>post-install section</u> for more details on how to reset password.

Verify that the groups WSSAdminGroup and WSSCSRGroup were created.

- 11 Run the installation command to deploy the following OUCSS artifacts:
 - Security Credentials (CSF Keys)
 - OUCSS_Common_Extension.war, OUCSS_Residential_Extension.war, OUCSS_Commercial_Extension.war and extend.oucss.portal.war, extend.spaces.webapp.war as shared libraries in WebLogic. These libraries are required.
 - Configure Portal Web Service Connections as per the edge application details configured in InstallProperties.xml.
 - Create Mail Session.
 - Create Datasource

On Windows:

```
ant -f InstallBuild.xml installOUCSS -
DInstallProperties=%PRODUCT HOME%\config\InstallProperties.xml -l InstallPortal.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml installOUCSS -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml | tee InstallPortal.log
```

Note: After running above command, verify that the InstallPortal.log does not contain any errors. Fix any errors in the log and rerun InstallPortal command.

- 12 If the application is deployed on the Cluster:
 - A Shut down all the managed servers under this cluster and the admin server.

B Copy the <Domain

Home>/user_projects/domains/portal_domain/servers/AdminServer/upload/extend.spaces.web app/2.0@12.2.1.0.1/app/extend.spaces.webapp.war from the first node on which the Admin server is active to the Admin server folder on all other machines.

```
cp <Domain Home where Admin Server is
running>/user_projects/domains/portal_domain/servers/AdminServer/upload/extend.spaces.
webapp/2.0@12.2.1.0.1/app/extend.spaces.webapp.war <Domain Home of other
nodes>/user_projects/domains/portal_domain/servers/AdminServer/upload/extend.spaces.we
bapp/2.0@12.2.1.0.1/app
```

- **C** Restart the Admin and all managed servers under this node.
- **13** The portal can be accessed using the URL format http://<PortalHost>:<PortalPort>/webcenter. Replace <PortalHost> and <PortalPort> with values configured in InstallProperties.xml.
- **14** When the Installation of OUCSS Portal is successful, the following steps must be performed to bring the OUCSS Portal Online:

A Login with the wssadmin user.

	? Help →JLogin
Mome Log	jin Register Retrieve User Outages ↓
	Login
	Username wssadmin
	Password
	Login
Stay in touch with us:	
About WebCenter Portal 1 Privacy Statement	
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B After logging in, enter the URL to the Portal Administration page (http://<PortalHost>:<PortalPort>/webcenter/portal/admin/portals).

•		TER PORTAL > Administration		Portals +	Favorites • Help • WSSA	Admin -
	Settings Portals Shared Assets					
	Portal Templates Portal Browser	All Portals				
	All Portals	📩 Import 📩 Export	Sort By Di	isplay Name	Filter	୬ ଏ ଡ
	Managed	OUCSS Admin Portal	C Active	Online	3 Members Last Activity 1 days ago	Edit Administer
	Public	OUCSS Portal	Active	Online	2 Members Last Activity 1 days ago	Edit Administer
	Discoverable	Self Service Portal	Active	Online	2 Members Last Activity 1 days ago	Edit Administer
	Portal Deployments					
	Create Portal					

C Click on the **Administer** link to change the selected portal from offline to online.

+	OUCSS P	ortal⇒ General
	Portal Informatio	n
	* Title	OUCSS Portal
	Acronym	OP
	Description	
Ø	Portal Color	Choose Color
ð	Keywords	Enter Keywords portal x css x oucss x base x
~		Save
•••	Portal Details	
	Name	oucss Rename
¢	Portal URL	sd1fe79b8_8f45_49bf_846b_059b446b5239
-	Members	2
7	Last Activity	1 day ago
	Created	by WSSAdmin
→	Status	
	Active	The portal is active Consider closing portals that are no longer actively used.
	Online	The portal is online Figure A sector of the portal of the portal of the portal of the performing maintenance tasks.
	Publish RSS	■ RSS publishing is disabled ⊖ Enable or disable RSS feeds for a portal
	Actions	X Delete this portal

D Repeat the process to set all portals online.

Post-Installation Checklist

Use the following checklist to verify that OUCSS is correctly installed.

Verify the OUCSS Schema Tables

- 1 Login into the database with the OUCSS dbuser/passwd credentials that you created during the installation process.
- 2 Verify that the following tables exist by executing the query select Count(*) from tab. Should return 37 tables excluding PS_TXN table.
 - SS_ACCESS_ROLE
 - SS_ACCESS_ROLE_L
 - SS_CONFIGURATION
 - SS_EDGE_APPLICATION
 - SS_EDGE_APPLICATION_L
 - SS_KEYS
 - SS_LABEL
 - SS_LABEL_L
 - SS_LANGUAGE
 - SS_LINE_OF_BUSINESS
 - SS_LINE_OF_BUSINESS_L
 - SS_LOB_ACCESS_ROLE
 - SS_LOB_ACCESS_ROLE_PORTLET
 - SS_LOB_ACCROLE_PRTLT_ACTION
 - SS_LOOKUP
 - SS_LOOKUP_L
 - SS_LOOKUP_VAL
 - SS_LOOKUP_VAL_L
 - SS_MESSAGE
 - SS_MESSAGE_L
 - SS_OFFER
 - SS_OFFER_LANGUAGE
 - SS_OFFER_SET
 - SS_OFFER_SET_L
 - SS_PORTLET
 - SS_PORTLET_ACTION
 - SS_PORTLET_L
 - SS_RESOURCE

- SS_RESOURCE_L
- SS_SET
- SS_SET_ACCESS
- SS_SET_USERS
- SS_TRAIN
- SS_TRAIN_L
- SS_TRAIN_PORTLET
- SS_USER
- SS_USER_LOB_ACCESS_ROLE

Verify the OUCSS Data Source

- 1 Log in to the Oracle WebLogic Server console at http://<WLSAdminHost>:<WLSAdminServerPort>/console as WLS Admin.
- 2 Select the portal_domain_name>, then expand Services and click Data Sources.

The list of data sources should include the OUCSS data source OUCSSDS, as shown in the following image:

ORACLE	WebLogic	Server	Administration	Console ⁻	12c
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Change Center	1 4	🔒 Ho	me Log Out Preferences 🔤 Reco	ord Help [Q	w	elcome, weblogi	c Connected to: portal_domain
View changes and restarts		Home	>Summary of Security Realms >myreal	m >Users and (Groups >Summary of Deployments > Summary of	JDBC Data Sources		
Click the Lock & Edit button to modify, add or delete items in this domain.	ick the Lock & Edit button to modify, add or Jette items in this domain.							
Lock & Edit Release Configuration Comain Structure Vork Hanagers Concurrent Templates Startup and Stutdown Classes Services B-Messaging Data Sources		A JD data This Cus Data Click	guration Monitoring BC data source is an object bound that source is an object bound that source page summarizes the JDBC data so tomize this table Sources (Filtered - More Column the Lock & Edit button in the Chance in the Column that the Column t	o the JNDI tre urce objects t nns Exist) nge Center to	e that provides database connectivity through hat have been created in this domain. activate all the buttons on this page.	a pool of JDBC connections. Applications can look up a data so	urce on the JNDI tr	se and then borrow a
Foreign JNDI Providers		Net	w ∽ Delete	,			Showi	ng 1 to 8 of 8 Previous Next
Work Contexts XML Registries			Name 🗞	Туре	JNDI Name	Targets	Scope Do	main Partitions
XML Entity Caches			LocalSvcTblDataSource	Generic	jdbc/LocalSvcTblDataSource	AdminServer	Global	
тјсом	1		mds-owsm	Generic	jdbc/mds/owsm	AdminServer, WC_Cluster1, WC_Inbound	Global	
How do I 😑			mds-SpacesDS	Generic	jdbc/mds/SpacesDS	AdminServer, WC_Cluster1, WC_Inbound	Global	
Create JDBC generic data sources			opss-audit-DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, WC_Cluster1, WC_Inbound	Global	
Create JDBC GridLink data sources			opss-audit-viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, WC_Cluster1, WC_Inbound	Global	
Create JDBC multi data sources			opss-data-source	Generic	jdbc/OpssDataSource	AdminServer, WC_Cluster1, WC_Inbound	Global	
Create UCP data sources			OUCSSDS	Generic	jdbc/OUCSSDS	WC_Cluster1, WC_Inbound	Global	
Create Proxy data sources			WebCenterDS	Generic	jdbc/WebCenterDS	WC_Cluster1	Global	
System Status		Ne	N v Delete				Showi	ng 1 to 8 of 8 Previous Next
Health of Running Servers								

Verify Deployments

To verify OUCSS shared library deployment:

- 1 Login in to the Oracle WebLogic Server console as WLS Admin.
- 2 Navigate to <<pre>contal_domain_name>> Deployments.
- **3** Click on the Deployment Order Column Header twice to sort by descending order. You would see the OUCSS Applications and OUCSS Libraries with Deployment Order 700

0

i i nacimes

- **4** The following deployments should be listed:
 - com.oracle.ugbu.ss.lib (2.2, 2.2.0.0.0) [as "Library" deployment]
 - com.oracle.ugbu.ss.commercial.lib (2.2, 2.2.0.0.) [as "Library" deployment]
 - com.oracle.ugbu.ss.residential.lib (2.2, 2.2.0.0.0) [as "Library" deployment]
 - extend.oucss.portal (2.2, 2.2.0.0.0) [as "Library" deployment]
 - extend.spaces.webapp(2.0,12.2.1) [as "Library" deployment]
 - extend.spaces.webapp(2.0,12.2.1.0.1) [as "Library" deployment]

	Virtual HostsVirtual TargetsWork Managers	To ir	nstall a new application or module for deployment to targets in this domain, cl	ick Install .								
	Concurrent Templates	👂 Cus	tomize this table									
	···Resource Management											
	Startup and Shutdown Classes	Depi	loyments									
	- Deployments	Inst	tall Update Delete							Showing 1 to	83 of 83	Previous Next
	T: Messaging											
	Data Sources		Name	St	tate	Health	Туре	Targets	Scope	Domain Partitions	Deplo	yment Order [™]
	Persistent Stores Foreign JNDI Providers		COUCSSInboundServices (v2.2.0.0)	Ac	ctive	🖋 ок	Enterprise Application	WC_Inbound	Global		700	
_	Work Contexts 👻		<pre>#extend.spaces.webapp(2.0,12.2.1)</pre>	Ac	ctive		Library	AdminServer, WC Cluster1	Global		700	
ł	How do I		rom.oracle.ugbu.ss.lib(2.2,2.2.0.0.0)	Ac	ctive		Library	WC_Cluster1, WC_Inbound	Global		700	
:	Configure an enterprise application		Com.oracle.ugbu.ss.residential.lib(2.2,2.2.0.0.0)	Ac	ctive		Library	WC_Cluster1, WC_Inbound	Global		700	
:	Update (redeploy) an enterprise application Monitor the modules of an enterprise		🌓 com.oracle.ugbu.ss.commercial.lib(2.2,2.2.0.0.0)	Ac	ctive		Library	WC_Cluster1, WC_Inbound	Global		700	
	application Deploy EJB modules		net extend.oucss.portal(2.2,2.2.0.0.0)	Ac	ctive		Library	WC_Cluster1, WC_Inbound	Global		700	
·	Install a Web application		rtend.spaces.webapp(2.0,12.2.1.0.1)	Ac	ctive		Library	AdminServer, WC_Cluster1	Global		700	
5	System Status 🖃		n jax-rs(2.0,2.21.1.0)	Ac	ctive		Library	WC_Inbound	Global		700	
ł	Health of Running Servers		nomoracle.ugbu.ss.rest.lib(2.2,2.2.0.0.0)	Ac	ctive		Library	WC_Inbound	Global		700	
	Failed (0) Critical (0) Overloaded (0)		☑ DMS Application (12.2.1.0.0)	Ac	ctive	🖋 ок	Web Application	AdminServer, WC_Cluster1, WC_Inbound	Global		5	
	Warning (0)		街 🍙 wsm-pm	Ac	ctive	🖋 ок	Enterprise Application	WC_Cluster1	Global		5	
Ľ	0.007		🗈 📼 em	Ac	ctive	🖉 ок	Enterprise	AdminServer	Global		400	

Verify the OUCSS Mail Session

Go to Services > MailSessions and under Summary of Mail Sessions verify that OUCSS is created as shown below. The properties column will reflect the values configured in InstallProperties.xml.

Mail Sessio	ons		
New	Clone	Delete Showing 1 to 1	of 1 Previous Next
Name	ie 🙈	Properties	JNDI Name
	SS	mail.smtp.port=25 mail.host=mailserver.domain.com mail.smtp.host=mailserver.domain.com mail.transport.protocol=smtp mail.from=wssAdmin@domain.com	mai/OUCSS
New	Clone	Delete Showing 1 to 1	of 1 Previous Next

Verify Connections

To verify that the CCB edge application wsdl is correctly tokenized:

- 1 Login into the Oracle Enterprise Manager console at http://<WLSAdminHost>:<WLSAdminServerPort>/em as WLS Admin.
- 2 Click the Target Navigation icon and Navigate to the WebCenter > Portal > Server > WebCenter Portal:



OR/	ACLE [®] Enterprise	Mana	ager Fusion	Middlewa	are Control 1	12c			篇 V	/ebLogic Domain 🔻	weblogic 💌
	WebCenter Portal ● WebCenter Portal	_								Jul 27	, 2016 9:38:14 AM PDT
⊿ We	Home							0	Recent CPU and Memory Usage		Θ
Page.	Monitoring	•						99.0%	8		
	Control		05	06	07	08	09		6		
Page	Logs							97.0%			
	Application Export	1	05	06	07	08	09			Vhr	1,200
Portle	Application Import		05	06	07	0.8	00			1 Am	M 800
Deather	Register Producer		05	00	07	UO	09			V V V	400
Portie	Settings		05	06	07	08	09				0
	ADF	•	ADF Perf	ormance					02:43 AM 03:38 04:33 05:28 06:23 07:18 July 27 2016	08:13	09:08
	Security	•	Configure	e ADF Çoi	nnections				— CPU Usage (%) — Heap Usage (MB)		Table View
	MDS Configuration		Configure	e ADF (ad	lf-config)			-			
	System MBean Browser		ADF Log	Configura	ation	-		0	Security Metrics		0
Healtr-	Target Sitemap	-	ADE Res	ource Cei	nter	08	09	100.0%	Metric	Since Startup	Last 15 Minutes
Incida	Target Information	ł	Abi Nes	ource oer					Average LDAP Lookup Time (ms)	281.2	91.7% out of 12
1.0 0.8	ponse and Load							e	Most Active Portais (last 24 hours)		U

	rise Manager Fusion Middlewar	Control 12c	🗮 WebLogic Domain 🔻 🛛 weblogic 💌 🚥
WebCenter Porta	al O		<u>}</u> •
WebCenter Portal			Jul 27, 2016 2:37:20 PM PDT 👈
DF Business Compo	nents Configuration		-
	nento configuration		
Please note that your change	es to this page will be applied imm	diately and do not participate in Oracle Enterprise Manager Change Center.	×.
	ee to ano page tim be appreading		
Create	e Connection		-
IIRL Connections			
🧷 Edit 🛛 🔒 Delete			
Connection Name	URL		
oucssOutageMapViewer	http://1	ər	
Web Service Connection	ons		
🥜 Edit 📑 Delete Advanced	Connection Configuration +		
Connection Name	Default Service Name	WSDL URL	
PrepaidEstimatesAndCostSer	http://ouaf.oracle.com/spl/XAI	https://webservices/WXRetrievePPBEstimatesAndCos	ts?WSDL
CustomerMgmtService	{http://ouaf.oracle.com/spl/XAI	https://dx00uterroressStartStopRequest?WS	DL
SSCommPreferencesUpdate	{http://ouaf.oracle.com/spl/XAI	https://sh00utecommons.commPreferences?ws	sdi
	the second s	https://	
ScalarUsageDetailService	{nttp://ouat.oracie.com/spi/XAI	all and a set an	

- 3 Under Web Service Connections, each connection name has a corresponding CCB WSDL URL. Click on any connection name (e.g., AccountSummaryService), click Edit, and select WSDL URL. The connection URL (e.g., http://ccbhostname:portno/spl/XAIApp/xaiserver/WXAccountChargesSummaryRetriever?WSDL) should open in your browser.
- 4 Repeat Step 3 for all remaining connections including **oucssOutageMapviewer** (if present) to confirm that connections are detokenized with connections configured in InstallProperties.xml.

Verify the OUCSS Security Credential

To verify that the Security Credential OUCSS_XAI_BASIC_KEY, OUCSS_INTG_BASIC_KEY, and OUCSS_OUNC_BASIC_KEY were successfully created:

- 1 Log in into the Oracle Enterprise Manager console http://<WLSAdminHost>:<WLSAdminServerPort>/em as WLS Admin.
- 2 Select Weblogic_Domain, then cportal_domain_name>.
- 3 Click <portal_domain_name>, then choose Security > Credentials
- 4 Under Credentials select and expand oracle.wsm.security. OUCSS_XAI_BASIC_KEY, OUCSS_INTG_BASIC_KEY, and OUCSS_OUNC_BASIC_KEY should be present.

ORACLE Enterprise Manager Fusion Middleware Control 12c 🖷 🔤								
portal_domain ● 3ul 27, 2016 3:06:40 PM PDT ◆ /Domain_portal_domain/portal_domain > Credentials 3ul 27, 2016 3:06:40 PM PDT ◆								
Credentials								
A credential store is the repository of security data that	certifies the authority of entities	used by Java 2, Java EE, and ADF app	lications. Applications can use t	ne Credential Store, a sin	gle, consolidated service provider to store and manage their			
Credential Store Provider								
View 🔻 🕂 Create Map 🕂 Create Key	🖋 Edit 🗙 Delete	Credential Key Name		etach				
Credential				Туре	Description			
🕨 📄 o.webcenter.jf.csf.map								
OffersService.com.oracle.ugbu.ss.billin	g.offers							
🔺 👝 oracle.wsm.security								
OUCSS_OUNC_BASIC_KEY				Password	OUCSS_OUNC_BASIC_KEY			
				Password	sign-csf-key			
keystore-csf-key				Password	keystore-csf-key			
OUCSS_INTG_BASIC_KEY				Password	OUCSS_INTG_BASIC_KEY			
P OUCSS_XAI_BASIC_KEY		Password	OUCSS_XAI_BASIC_KEY					
enc-csf-key				Password	enc-csf-key			
OUCSSInboundServices.oracle.ugbu.s	is							
🕨 📄 webcenter-1111								

Post-Installation Steps

Reset the WSSAdmin and WSSCSR User Password

Random password is generated when creating WSSAdmin and WSSCSR users using importUsersAndGroups task. The passwords need to be changed in order to use these users.

Note: This step is needed for the users WSSAdmin and WSSCSR those come with this installation. Skip this step otherwise.

To reset the password:

- 1 Log into the WLS Admin Console.
- 2 Navigate to Security Realm > myrealm > Users and Groups tab.
- 3 Click on the User name (WSSAdmin or WSSCSR) to update the password.
- 4 Update the passwords from the the Passwords tab.

Update the System Configuration Properties

To modify the values:

- 1 Login to the OUCSS Portal as WSSAdmin.
- **2** Go to the Admin > Configuration Options page.

Customer Search	Configuration Options	Resources	Access	Security	Edge Applications	»	©- WSSAdm
nfiguration Options	I						
Acțions 🗸 🔮 🗙							
Configuration Option	Туре	Value				Values Lookup	Selected Value
oucss.link.ccb.person	Freeform	1 Y					
oucss.notification.owner	Freeform	1 CCB					
address.validation.enab	led Freeform	1 FALSE					
installation.owner.flag	Freeform	n CM					
edgeapplication.ccb.dat	asource Freeform	1 C1					
lookups.webservice.stat	us Freeform	ACTIVE					
mail.session.jndi.name	Freeforn	n mail/OL	JCSS				
webcenter.register.url	Freeforn	1 http://		.com:88	88/webcenter		
webcenter.login.url	Freeform	1 http://		.com:88	88/webcenter/portal/pub	olic/lo	
validate.regex.email	Freeform	1 ^(?:[a-z	A-Z0-9%+-]+@[a-zA-Z0	-9]+\.[a-zA-Z]{2,4})\$		
validate.regex.username	e Freeforn	1 [a-zA-Z	0-9_]*				
validate.length.password	d.min Freeforn	1 6					
validate.length.password	d.max Freeform	1 12					
validate.regex.password	1 Freeform	1 [a-zA-Z	0-9]*				
oucss.default.locale	Freeforn	ı en					
rollback.on.failed.email	Freeform	1 Y					
account.list.max.rows	Freeform	1 3					
account list page size	Ereeform	10					
accountinstpage.size	1 ICCIOIN						

3 Modify the properties (listed in the following table) to match your environment.

Property	Description	Default Value
current.oucss.version	This property tracks the current OUCSS version. Please do not change this property.	2.2.0.0

installation.owner.flag	This is the current installation owner flag. When the product will be shipped this property should be CM.	СМ
oucss.default.locale	Default Locale of OUCSS Application.	en
oucss.link.ccb.person	Flag to indicate if the CSS user needs to be linked to a CCB person. N or Y	Ν
address.validation.enabled	Flag will indicate if address validation is installed.	true
edgeapplication.ccb.datasource	This is the edge application code (e.g., C1, M1, etc.) from where the data is pulled.	C1
lookups.webservice.status	Status of the Lookup Value inserted using this service. Only allowed values are ACTIVE, INACTIVE.	ACTIVE
validate.regex.email	Regular expression to validate email address in OUCSS UI.	^(?:[a-zA-ZO-9%+-]+@[a-zA-ZO-9]+\.[a- zA-Z]{2,4}])\$
validate.regex.username	Regular expression to validate a valid user name that can be used when registering.	[a-zA-Z0-9_]*
validate.regex.password	Regular expression to validate the password pattern that can be used when registering or changing user password.	[a-zA-Z0-9_]*
	Valid examples for this are:	
	A password which may contain "small and capital letters, numbers or _":	
	[a-zA-Z0-9_]*	
	A password which must contain "both letters and numbers":	
	^(?=.*[A-Za-z])(?=.*[0-9])[A-Za-z0-9]+\$	
validate.length.password.min	Integer value for minimum length of the password that should accept when registering or changing password.	6
validate.length.password.max	Integer value to allow maximum length of the password when registering or changing password.	12
mail.session.jndi.name	JNDI of Mail Session to send emails.	mail/OUCSS
webcenter.register.url	This will be used in the registration email which is sent to the user with the registration key and a URL. User shall click on this link in the email to complete the OUCSS registration.	http:// <portalhost>:<portalport>/ <portalcontextroot>?regKey=</portalcontextroot></portalport></portalhost>
webcenter.login.url	This property will be used in email messages to send the user the login URL.	http:// <portalhost>:<portalport>/ <portalcontextroot></portalcontextroot></portalport></portalhost>
outage.map.color.theme.buckets	Match the number to number of colors configured in outage.map.color.theme.colors property	4
outage.table.page.size	Number of records that can be displayed at a time on the Outage Table screen	10

outage.map.base.map	This property is used to setup BASE MAP configured in the MapViewer. This property will be used to display the Outage Summary Map.	Value configured in InstallProperties.xml
outage.map.color.theme	This property is used to color code Outages in Outage Summary.	Value configured in InstallProperties.xml
outage.map.color.theme.loc	This property is the Area Column from the Color Theme configured above.	Value configured in InstallProperties.xml
outage.map.srid	This property is SRID of the Coordinate system used by Base Map and Theme configured above.	Value configured in InstallProperties.xml /8307
outage.map.color.theme.colors	This property is configured to set the number of buckets to aggregate the Outages as well as the respective color of each bucket.	#00FF00;#EEEE00;#FF7F00; #FF0000 (Green, Yellow, Orange and Red)
outage.area.nms.config	This property represents the Area configured to aggregate Outages in NMS. This will affect the color theme and/or theme location column configured above.	ZIP (other valid values are CITY and COUNTY).
rollback.on.failed.email	This property if set to 'Y' will roll back Enroll or Invite to an Account if the sending the email fails. Set it to 'N' if mail session is not configured or you want to commit Enroll and Invite even if sending email fails.	Y
account.list.max.rows	This property specifies the number of associated accounts that will be displayed without enabling search functionality. Once the number of accounts exceeds this limit, search will be enabled.	10
account.list.page.size	This property controls the page size or the number of accounts per page presented in the Account List. If the number of associated accounts exceeds the value of this parameter, paging will be enabled.	10
max.rows.premise.search	Set this property to the max number of rows that can result in a Premise search. The system will show error if the premise search in Start Service and New Customer service exceeds the value set here.	10
default.customerclass.parm	Property to set default Customer Class configured in CCB for Start/Stop/Transfer Services.	R
default.personbusiness.parm	This property sets the default Person Business configured in CCB for Start/Stop and Transfer service.	Р
default.newcust.requestmode	This property sets the default Request Mode configured in CCB for New Customer Service.	C1ST
oucss.reset.password.pattern	Set of characters to be used to generate a random password using the Forgot Password functionality.	0123456789abcdefghijklmnopqr stuvwxyz\$#*_ABCDEFGHIJKLM NOPQRSTUVWXYZ
	Numeric Only: 0123456789	
	Alphabet Only (Small caps and capital letters): abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ	
	This is basically a list of what characters can be used for the password.	

default.enroll.role	Access role to be used when a user enrolls to an account. If the Access role configured in this property is not found, ACCOUNT_HOLDER will be used as default.	ACCOUNT_HOLDER
csr.account.access	Access role to be used for accounts when CSR views the account after searching it using Customer Search screen.	ACCOUNT_HOLDER
csr.search.results.fetchsize	Number of accounts to be fetched when searching using CSR search screen.	300
include.topTag.usageDownload	Property to control if the top tag should be included when downloading Usage Data in XML format. If set to false, the top tag will be omitted in the file.	True
outage.map.base.startingX	Property to set the default latitude location to center the Outage Map.	-81.70
outage.map.base.startingY	Property to set the default longitude location to center the Outage Map.	40.69
outage.map.base.zoom	Property to set default Map Zoom level when no data is found.	4
attachment.list.max.row	Property to set the maximum rows to be allowed for attachment.	5
forms.list.page.size	Property to set the maximum number of issues to be displayed in forms list page.	10
oucss.debug.enable	Property to enable showing of debug message along with error messages on screen.	False
def.day.mode.range.in.month	Property used in Usage Detail to set the default range for Day view mode.	3
def.hour.mode.range.in.days	Property used in Usage Detail to set the default range for Hour view mode.	7
def.month.mode.range.in.year	Property used in Usage Detail to set the default range for Month view mode.	1
max.day.mode.range.in.years	Property used in Usage Detail to set the maximum range for Day view mode.	1
max.hour.mode.range.in.days	Property used in Usage Detail to set the maximum range for Hour view mode.	30
max.month.mode.range.in.years	Property used in Usage Detail to set the maximum range for Month view mode.	4
scalar.usage.graph.color	Property to control the default color of Scalar Usage Detail graph	#660033
enable.email.validation	Property to control if the Email Validatation is enabled. Email Validation is enabled by default.	Y
enable.html.email	Property to control is Emails are sent in HTML formats using templates. This is enabled by default.	Y
oucss.link.ccb.person	The ouss person person with ccb	Y
Address.validation.enabled	Address validation flag	

Installation

oucss.attachment.max.size	Property to control the max memory (in bytes) allowed when uploading a file.	5243000
Commercial Properties		
oucss.comm.context.limit	Property to set the number of accounts that can be selected in Business context to view Multi account taskflows	10
oucss.comm.context.pagesize	Property to set the number of accounts to be displayed in Business context without scroll bar. Accounts more than the set property will be displayed with a scroll bar.	10
set.account.page.size	Property to control the page size of the number of accounts per page presented in the Set. If the number of associated accounts exceeds the value of this parameter, paging will be enabled.	10
Notification Properties		
notification.list.page.size	Property to control the page size of notification. If the number of notifications associated with accounts exceeds the value of this parameter, paging will be enabled.	15
notif.list.chars.preview	Property to set the length of the notification before a preview mode is enabled.	140
notif.validate.regex.phone	Property to set the regular expression to validate the phone number for Notification preferences.	^(?:\+?1[]?)?\(?(\d{3})\)?[]?(\d{3})[]?(\d{4})\$
oucss.context.selection	Property to enable Consolidated Account. If the value is set to A the Portal has no context. If set to S, then user get to choose a context at the time of login.	A
oucss.deviceagent.enable	Flag to enable Mobile Responsive layout on mobile phones. Set it to false to disable this feature.	true
oucss.notification.installed	Property to indicate if Notification Center is installed.	false
	Note : This property is not used from 2.2.0.0. Use oucss.notification.owner property instead.	
enable.email.userId	Property to enable using email address as user id.	Ν
	Possible values are Y and N	
oucss.notification.owner	Propety to indicate if notifications and notification channels is owned by Notification center or CCB.	OUNC
	Possible values are OUNC or CCB.	

4 After the required changes are saved, update the system cache by clicking the Actions Menu > Flush Cache button.

Customer Search Co	nfiguration Options	Resources	Access Security	r Edge Applications	»	©- WSSAdmin
juration Options						
Actions - Y 🗙						
reate						
X <u>D</u> elete	Туре	Value			Values Lookup	Selected Value
🖙 S <u>h</u> ow Query By Exam	ple Freeform	n Y				
Flush Cache	Freeform	n CCB				
	Freeform	n FALSE				
stallation.owner.flag	Freeform	n CM				
dgeapplication.ccb.dataso	urce Freeform	n C1				
okups.webservice.status	Freeform	n ACTIVE				
ail.session.jndi.name	Freeform	n mail/OU	ICSS			
ebcenter.register.url	Freeform	n http://	.com:	3888/webcenter		
ebcenter.login.url	Freeform	n http://	.com:	3888/webcenter/portal/public/lo		
alidate.regex.email	Freeform	n ^(?:[a-z/	A-Z0-9%+-]+@[a-zA-2	Z0-9]+\.[a-zA-Z]{2,4})\$		
alidate.regex.username	Freeform	n [a-zA-Z0)-9_]*			
alidate.length.password.m	in Freeform	n 6				
alidate.length.password.m	ax Freeform	n 12				
alidate.regex.password	Freeform	n [a-zA-Z0	0-9]*			
ucss.default.locale	Freeform	n en				
ollback.on.failed.email	Freeform	n Y				
ccount.list.max.rows	Freeform	n 3				
ccount.list.page.size	Freeform	n 10				
nax.rows.premise.search	Freeform	n 2				

Reload Labels and Lookups from CCB

Important: See the pertinent sections of the *Oracle Utilities Customer Self Service Implementation Guide* for information on configuring labels and lookups in CCB (as well as MDM, if applicable) and ensure configurations are in place prior to executing this step.

- 1 Log in into the OUCSS Portal application as WSSAdmin.
- 2 Select Labels from the Admin Menu.
- 3 Click Actions > Reload Labels as shown in the following image:

OUCSS ADMIN					Portals • Favorites •	Administration Prefe	erences Help + Logout				
Customer Search	Configuration Options	Resources	Access	Security	Edge Applications	»	©- WSSAdmin				
Labels											
Actions 👻 🎯 💥											
L 🍄 <u>C</u> reate			Descript	ion							
A 💥 Delete			&Accept				*				
A Show Query By Ex	ample		Access F	Role Mainten	ance						
A and the state of	ampre		&Type of	Access							
A Reload Labels	Reload Labels			&Access Role Code							
ACCESS_ROLE_CD	BL_DESC		Access F	Role Code							
ACCESS_ROLE_DISAB	ILE		Access r	oles are view	only. Please manage Acc	ess Roles in CCB.					
ACCESS_ROLE_LBL			Access F	Role							
ACCOUNT_ACCESS_L	BL		Account	Access							
ACCOUNT_ACTION_LE	3L		Action								
ACCOUNT ADDRESS			Account	Addrose Info	mation undated		· · · · · · · · · · · · · · · · · · ·				

The message, "Labels from edge application loaded successfully" should appear. A restart of the application is required to refresh the labels with the reloaded labels.

- 4 Select Lookup from Admin menu.
- Click Actions > Reload Lookups. 5

OUCSS ADMIN					Portals - Favorites -	Administration Pro	eferences Help	/ Logout	
Customer Search Config	guration Options	Resources	Access	Security	Edge Applications	*	¢- W	SSAdmin	
ookups									
									=
									_
Actions 🗸 🎯 💥									
Create									
L 🔀 Delete	Description				Active Lookup Value Coun	t Lookup Value Li	st		
A 🖙 Show Query By Example	Action				3	ADD; READ; UP	DATE;		
A Relead LeNups	Allowed file typ	oes for attachme	nt		8	BMP; DOC; GIF;	JPEG; JPG; PDF;	PNG; TXT;	
B Reload Lol Jups	en::BILL_ROU	TE_TYPES			4	EMAIL; EMAIL2;	FAX; POSTAL;		
B Flush Cache	Boolean				2	2 false; true;			
CARD_TYPES	en::CARD_TY	PES			4	4 C1AM; C1DV; C	1MC; C1VS;		
CONFIG_VALUE_TYPE_FLG	Configuration	Туре			2	FREEFORM; LO	OKUP;		
CONTACTS_ROUTE_TYPE	en::CONTACT	S_ROUTE_TYP	E		7	CM-BUSPHONE CM-CSSUSREN	; CM-CSSPERSO /; CM-FAX; CM-PE	NCONTACT REMAIL; CN	<i>I</i> - ↓

Restart the Portal Managed server using WLS Admin Console or run the following command from product_home\bin 6 to restart Portal managed servers after reloading labels and lookups from CCB:

On Windows:

```
ant -f InstallBuild.xml RestartManagedServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l RestartPortalServer.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml RestartManagedServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml -1 RestartPortalServer.log
```

Verify User Registration

- 1 Browse the OUCSS Portal application and click **Register** to open the **OUCSS Registration** page.
- 2 Enter the Username, Password, First and Last Name, and Email Address in the self-registration page, then click Register.

Note: Following register screen is with enable.email.validation configuration property set to 'Y'.

						? Hel	p →)Login
Note Self Service	Home Login	Register Retri	eve User	Outages -			
		* Email A	ddress				
		ddre <u>s</u> s					
			(🖉 Use Email Address as U	sername		
		* <u>F</u> irs	t Name				
		* <u>L</u> as	t Name				
		* <u>P</u> a	ssword				
		* Confirm P <u>a</u>	ssword				
			l	Register			
Stay in touch with us:							
y f@Qin	w 8-						

- **3** An information screen should appear to let you know the user was successfully created, as shown in the following image.
- 4 Click the link sent in Email to the email address provided at the time of Registration. Enter the values to verify the details and Click Submit.

Note: Following Validate Email screen is applicable only when enable.email.validation configuration property set to 'Y'.

- **5** Login into OUCSS Portal by going to Login page. Enter the newly-registered user name and password and Select a Login Context (e.g., Residential), then click the Login button.
- 6 From Accounts page, click Enroll to open the Enroll to an Account details screen.

Note: If enrollment has not yet been performed, you will receive a "No data to Display" message. To perform initial enrollment, proceed with the next step.

- 7 Enter enrollment details. The verification fields will differ depending on configuration of your CCB environment. For example, enter **Account Id** and other verification details, and then click **Enroll**.
- 8 After the account has been verified and added, click **Details** and verify establishment of the account by checking that all Dashboard, Information, Financial History, Bill, Compare Plans, and Usage and Payment Arrangement are working properly.

Verify Admin/CSR Functionality

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Verify WSS Admin

1 Browse the OUCSS Portal application.

- 2 Log in as WSSAdmin (WSSAdmin user is member of WSSAdminGroup enterprise role).
- 3 Click the Admin menu and verify that all Admin pages (Customer Search, Configuration Options, Resources, Access, Security, Edge Application, Line of Business, Portlets, Language, Labels, Lookups, Messages, Train and Offers) are accessible and functioning properly.

Verify CSR

- **1** Browse the OUCSS Portal application.
- 2 Log in as WSSCSR (WSSCSR user is member of WSSCSRGroup enterprise group).
- 3 Click Admin and verify that only the Customer Search is displayed.

Installing OUCSS Inbound Services

OUCSS Inbound Services EAR hosts 3 applications. Deploy this EAR if you would like to use one or more of the following functionalities.

- Account Enroll provisions the Account Enroll webservice that can be used by WSS Admins to mass enroll users to OUCSS.
- Offers Service provisions the OTB Offers Web Service to drive the Offers and Promotions taskflows in OUCSS.
- Rest Service application provisions the OUCSS Rest Services that can be used for Native Mobile Applications.

Install Steps

This procedure describes the installation method for OUCSS Inbound Services enterprise application.

- 1 Perform Steps 3-6 described in OUCSS Portal Install Steps to setup the environment.
- 2 If OUCSS Portal is not deployed on the same domain, then perform Steps 7-10 described in OUCSS Portal <u>Install Steps</u> to create OUCSS DB Schema and import OUCSS Users.
- 3 Verify that Admin and Managed Server configured for OUCSS Inbound Service are up and running before proceeding.
- 4 Run the installation command to deploy the following OUCSS artifacts:
 - OUCSS_Common_Extension.war,OUCSS_Residential_Extension.war, OUCSS_Commercial_Extension.war, extend.oucss.portal.war, jax-rs and OUCSS_Rest_Extension.war as shared libraries in WebLogic. These libraries are required.
 - OUCSSInboundServices.ear containing the OUCSS Account Enroll, OUCSS Offers Service and OUCSS Rest Services applications.
 - Configure Web Service Connections as per the edge application details configured in InstallProperties.xml.
 - Security Credentials (CSF Keys) OWSM Server policies.
 - Create Mail Session.

On Windows:

```
ant -f InstallBuild.xml InstallInBoundService -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l
InstallInBoundService.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml InstallInBoundService -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee
InstallInBoundService.log
```

Note: After running the command check InstallInBoundService.log for any build errors. Fix any errors in the log and rerun InstallInBoundService command.

5 The OUCSS Inbound Service WSDL can be accessed using the following URL formats

Note: Replace the host, port and context root with values configured in InstallProperties.xml

Account Enroll WSDL	http:// <inboundservicehost>:<inboundserviceport>/<accountenrollcontextroot>/AccountEnrollService?WSDL</accountenrollcontextroot></inboundserviceport></inboundservicehost>
Offer Service WSDL	http:// <inboundservicehost>:<inboundserviceport>/<offerscontextroot>/OffersService?WSDL</offerscontextroot></inboundserviceport></inboundservicehost>
Rest Services	http:// <inboundservicehost>:<inboundserviceport>/<restservicecontextroot>/</restservicecontextroot></inboundserviceport></inboundservicehost>

Post-Installation Checklist

Use this following checklist to verify that OUCSS Inbound Services installed correctly.

Verify the OUCSS Schema Tables

Verify the OUCSS Schema as described in Section <u>Verify the OUCSS Schema Tables</u> of OUCSS Portal Install and targeted to managed server/cluster associated with Inbound Services.

Verify the OUCSS Data Source

Verify the OUCSS Data Source as described in Section <u>Verify the OUCSS Data Source</u> of OUCSS Portal Install and targeted to managed server/cluster associated with Inbound Services.

Verify Deployments

To verify OUCSS shared library and EAR deployment

- 1 Login in to the Oracle WebLogic Server console as WLS Admin.
- 2 Navigate to Deployments screen.
- 3 Click on the Deployment Order Column Header twice to sort by descending order.

The following deployments should be listed as "Library" and targeted to managed server/cluster associated with Inbound Services:

- com.oracle.ugbu.ss.lib (2.2, 2.2.0.0.0) [as "Library" deployment]
- com.oracle.ugbu.ss.commercial.lib (2.2, 2.2.0.0.0) [as "Library" deployment]
- com.oracle.ugbu.ss.residential.lib (2.2, 2.2.0.0.0) [as "Library" deployment]
- extend.oucss.portal (2.2, 2.2.0.0.0) [as "Library" deployment]
- com.oracle.ugbu.ss.rest.lib(2.2, 2.2.0.0.0) [as "Library" deployment]
- jax-rs (2.0, 2.21.1.0) [as "Library" deployment]
- 4 Verify that the OUCSSInboundServices (v2.2.0.0) is deployed as Enterprise Application and is Active.

Name	State	Health	Туре	Targets	Scope	Domain Partitions	Deployment Order 📎
⊞ ⊑OUCSSInboundServices (v2.2.0.0)	Active	🖋 ок	Enterprise Application	WC_Inbound	Global		700
<pre>extend.spaces.webapp(2.0,12.2.1)</pre>	Active		Library	AdminServer, WC_Cluster1	Global		700
Com.oracle.ugbu.ss.lib(2.2,2.2.0.0.0)	Active		Library	WC_Cluster1, WC_Inbound	Global		700
Com.oracle.ugbu.ss.residential.lib(2.2,2.2.0.0.0)	Active		Library	WC_Cluster1, WC_Inbound	Global		700
Com.oracle.ugbu.ss.commercial.lib(2.2,2.2.0.0.0)	Active		Library	WC_Cluster1, WC_Inbound	Global		700
extend.oucss.portal(2.2,2.2.0.0.0)	Active		Library	WC_Cluster1, WC_Inbound	Global		700
<pre>extend.spaces.webapp(2.0,12.2.1.0.1)</pre>	Active		Library	AdminServer, WC_Cluster1	Global		700
∎_jax-rs(2.0,2.21.1.0)	Active		Library	WC_Inbound	Global		700
Com.oracle.ugbu.ss.rest.lib(2.2,2.2.0.0.0)	Active		Library	WC_Inbound	Global		700

Verify the OUCSS Mail Session

Verify the OUCSS Mail Session as described in Section <u>Verify the OUCSS Mail Session</u> of OUCSS Portal Install and targeted to managed server/cluster associated with Inbound Services.

Verify Connections

To verify that the CCB edge application wsdl is correctly tokenized:

- 1 Log in into the Oracle Enterprise Manager console at http://<WLSAdminHost>:<WLSAdminServerPort>/em as WLS Admin.
- 2 Select OUCSSInboundService(v2. 2.0.0) from Application Deployments OUCSSInboundServices(v2.2.0.0), then > Configure ADF Connections from the drop down menu as shown in the following image:

ORACLE Enterprise Manager Fusion Mide	dleware Control 12c					le We	Designed Do	main 💌	weblogic	с 💌	-
Target Navigation						ſ	• •	🛛 🖛 🛛 Aut	o Refresh	Off	•
View w	Shut Down							Jul 27, 20	16 6:39:52	PM PDT	v
Application Deployments	ou own the edit session lock. To obta	in the lock, click "Lock and I	Edit" in the Change Center	r menu.							×
 Resource Adapters opss-rest 			Response a	nd Load							^
■ OUCSSInboundServices(v2.2.0.0)	State	Active	1.0								L
OUCSSInboundServices(v2.2.0.0) (WC_inbc OUCSSInboundServices(v2.2.0.0) (WC_i	Health	ок 🗸	0.6								l
OUCSSInboundServices(v2.2.0.0) (WC_I	Application Version	v2.2.0.0	0.0							1.0	Ľ
webcenter Second second	Application Type	Enterprise Application								0.6	l
WebLogic Domain	Deployed On	WC_Inbound	06:25 PM	06:27 06:29	06:31	06:33	06:35	06:37	06:39	0.2	L
∡ i portal_domain R AdminServer	SPs		July 27 2	2016					•		L
► WC_Cluster1				Request Processin	g Time (ms)	Reque	sts (per mir	ute)	Table	Manu	L
▶ 覷 WC_Inbound	Active Sessions	0	EIRe						lable	view	L
🕨 🛅 Metadata Repositories	Request Processing Time (ms)	0	LUDS								
▶ 📩 WebCenter	Requests (per minute)	0.00				Bea	ns in Use	0			


3 Under Web Service Connections each connection name has a corresponding CCB WSDL URL. Click on any connection name (e.g., AccountSummaryService), click Edit, and select WSDL URL. The connection URL (e.g., http://ccbhostname:portno/spl/XAIApp/xaiserver/WXAccountChargesSummaryRetriever?WSDL) should open in your browser.

RACLE Enterprise Manager Fusion Middleware Control 12c webLogic Domain V weblogic V					
Clustered Application	ervices(v2.2.0.0) 0 Deployment Start Up	Shut Down Jul 27, 2016 6:43:04 PM	PDT		
ADF Connections Con	figuration				
i Information Please note that your change	es to this page will be applied imm	ediately and do not participate in Oracle Enterprise Manager Change Center.			
Create	Connection				
URL Connections					
🥜 Edit 🛛 🔒 Delete					
Connection Name	URL				
oucssOutageMapViewer	http://	er			
▲ Web Service Connectio	ons I Connection Configuration 🔻	· ·			
Connection Name	Default Service Name	WSDL URL			
BillNotificationUpdateService	{http://ouaf.oracle.com/spl/XAI	https://	1		
SSConsumptionSummarySer	{http://ouaf.oracle.com/spl/XAI	https://			
SSCommercialUsageAggrega	. {http://ouaf.oracle.com/spl/XAI	http://www.www.www.www.www.www.www.www.www.w			
AccountSummaryService	{http://ouaf.oracle.com/spl/XAI	https://documents.org/www.com			
SSOneTimePaymentService	{http://ouaf.oracle.com/spl/XAI	https://difference.international/set14/webservices/WXMakePayment?wsdl	-		

4 Repeat Step 3 for all remaining connections including **oucssOutageMapviewer** (if present) to confirm that connections are de-tokenized with connections configured in InstallProperties.xml.

Verify the OUCSS Security Credential

To verify that the Security Credential (CSF-Keys) were successfully created:

- 1 Perform Steps 1-3 described in <u>OUCSS Portal Section</u> to go to Credentials screen in EM.
- 2 Under Credentials select and expand oracle.wsm.security and verify that the following CSF-Keys exist:
 - keystore-csf-key
 - sign-csf-key
 - enc-csf-key
 - OUCSS_XAI_BASIC_KEY
 - OUCSS_INTG_BASIC_KEY
 - OUCSS_OUNC_BASIC_KEY



Post-Installation Steps

Create Security Key Store

Account Enroll and Rest Services are secured using OWSM Policy. For these services to work a keystore must be set up.

1 Go to <<Java_Home>>/bin and run the keytool command to generate a java key store (jks). The java key store (jks) is required to authenticate and encrypt the messages by OWSM.

Sample command:

```
keytool -genkeypair -keyalg RSA -alias orakey -keypass <<sign-csf-key-password>> -
keystore default-keystore.jks -storepass <<keystore-password>> -validity 3600
```

- For alias use the username from /oucssInstall/oucssConnection/OUCSS_Inbound/sign-csf in InstallProperties.xml
- For keypass use the password from /oucssInstall/oucssConnection/OUCSS_Inbound/sign-csf in InstallProperties.xml
- For storepass use the password from /oucssInstall/oucssConnection/OUCSS_Inbound/keystore-csf in InstallProperties.xml

Refer <u>http://docs.oracle.com/javase/8/docs/technotes/tools/windows/keytool.html</u> to know more about Key and Certificate Management tool.

- 2 Copy the default-keystore.jks file to <<Domain_Home>>/config/fmwconfig folder. <<Domain_Home>> is the domain path where the inbound services application is deployed.
- **3** Go to the <<Domain Home>>/oracle_common/common/bin and run the following WLST to import the credentials from Java key Store into OPSS Key Store –

```
svc = getOpssService(name='KeyStoreService')
svc.importKeyStore(appStripe='owsm',name='keystore',password='welcomel',
aliases='orakey', keypasswords='welcomel', type='JKS', permission=true,
filepath='<<KeyStorePath>>/default-keystore.jks');
```

4 Restart all servers including the Admin server.

Chapter 3

Installing CSS BPEL Flows

This section describes the installation steps for CSS BPEL flows where Oracle Utilities Customer Self Service (CSS) calls Oracle Utilities Meter Data Management (MDM), Oracle Utilities Network Management System (NMS) and Customer Care and Billing (CCB) to process or retrieve information.

Note: This integration does *not* require installation of the AIA Foundation Pack.

Software Requirements

The following software must be installed, configured and running prior to installation of CSS direct BPEL flows:

- Oracle SOA Suite 12.2.1.0 on WebLogic Server 12.2.1.0
- Oracle Utilities Meter Data Management release 2.1.0.3 installed on an Oracle database.
- Oracle Utilities Network Management System Application version v1.12.0.2 installed on an Oracle database.
- Oracle Utilities Customer Care and Billing release 2.5.0.2 installed on an Oracle database.
- Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 12.1 Media Pack with the latest patches.
- Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 12.1 Media Pack.

Pre-Installation Tasks

The following tasks should be completed before you install the CSS BPEL flows:

- Ensure that the Oracle SOA Suite 12.2.1.0 on WebLogic Server 12.2.1 is installed and running.
- Login to the Weblogic Server Administration console using the URL <u>http://admin_server_hostname:port/console</u> to confirm there are no changes in Pending Activation status.

Complete this step to verify that the WebLogic Server is in a healthy state. If any items are in Pending Activation status, then there is likely an issue on the server. All issues must be resolved before you can proceed with the installation.

- If it's not already running, start the Node Manager.
- Restart the Enterprise Manager and the WebLogic Administration server.
- Ensure the WebLogic Admin server, SOA server, and Node Manager are up and running.
- Create the new **Product Home** folder (e.g., OUCSS).

Note: The syntax for **Product Home** depends on whether you are installing on Linux or Windows. On Linux, the variable is <code>\$PRODUCT_HOME</code>. On Windows, it is <code>%PRODUCT_HOME%</code>.

Domain Topology

Oracle recommends separate WebLogic domains for portal applications in which the OUCSS Portal application and OUCSS Inbound Services can be deployed (e.g., **portal_domain**, as well as a separate domain for installation of CSS BPEL flows and OUNC Flows, e.g., **soa_domain**).

Installation on SSL-Enabled Servers

The Admin server port in the installation properties can be specified with either the unsecured port or the SSL listening port. If the Admin server is enabled and the same is specified in the installation properties file, the installation will be carried out with the SSL port of the Admin server using the t3s (t3+SSL) protocol.

Cluster Installation

A WebLogic Server cluster consists of multiple WebLogic Server (Managed Server) server instances running simultaneously and working together to provide increased scalability and reliability.

For a cluster installation, the Oracle Http Server must be installed. For details, see

https://docs.oracle.com/middleware/1212/webtier/WTINS/install_gui.htm#WTINS125

In the installation properties file in the OHSServer section the following details must be completed:

Cluster Scenario

- Provide the details of the OHS server, including protocol, hostname, and portnumber, should the cluster load need to be balanced with the OHS server.
- mgdservernames should be completed with the server names that are configured in the cluster as well as the entries that are to be provided in the mod wl ohs.conf file.

If soa_server1 and soa_server2 are the WebLogic server instances in the soa_cluster1 WebLogic cluster:

- soa_server1 is hosted on node abc.yourcompany.com listening at port 8001, and soa_server2 is hosted on node bcd.yourcompany.com and listening at port 8001.
- abc.yourcompany.com:8001 and bcd.yourcompany.com:8001 must be registered in the mod w1 ohs.conf file.
- SOA/OHSServer/mgdservernames can be set to soa_cluster1, or by comma-separated values such as soa_server1, soa_server2, etc.

Standalone Scenario

If **soa_server1** is the only managed server:

• Provide the details of the OHS server, including the protocol, hostname, and portnumber of the managed server.

• SOA/OHSServer/mgdservernames must be soa server1.

Installing the Integration

Installing on SOA 12c

- 1 Download OUCSS_INTGFLOWS_12c.zip from the Oracle Software Delivery Cloud (edelivery.oracle.com)
- 2 Extract the zip file to create OUCSS_INTGFLOWS folder. This folder includes a subfolder hierarchy as shown in the following image. If the folder is read-only, remove the read-only attribute from the folder.



3 Download patch 23295348 and follow the instructions included in the readme.txt file.

Refer to the readme.txt file included with the patch for more information and installation instructions. The following sub-steps provide more information related to the steps included in the readme file.

A Verify that the following environment variables are set.

Variable	Example
Unix/Linux and Windows OS	
PATCH_HOME	XXX/23295348
MW_HOME	XXX/Middleware
SOA_HOME	\$MW_HOME/soa
ORACLE_HOME	\$SOA_HOME
PRODUCT_HOME	This is the integrated flows product installation home. Example: Unix/Linux: PRODUCT_HOME=/slot/oracle/OUCSS_INTGFLOWS Windows: PRODUCT_HOME=C:\Oracle\OUCSS_INTGFLOWS

The following commands indicated in the readme file (*setWLSEnv.sh* on Linux or *setWLSEnv.bat* on Windows) set the environment variables used for executing the installation scripts.

On Windows:

```
cd %MW HOME%\wlsserver\server\bin\
```

setWLSEnv.cmd

On UNIX/Linux:

source "\$MW HOME/wlserver/server/bin/setWLSEnv.sh"

The following is an example to set up environment variables in a typical installation:

On UNIX/Linux:

```
export MW HOME=/Oracle/Middleware/soa
export SOA_HOME=$MW_HOME/soa
export ORACLE_HOME=$SOA_HOME
export PRODUCT HOME=/Product Homes/OUCSS INTGFLOWS
export PATCH HOME=/PATCH DWNLD/23295348
source $MW HOME/wlserver/server/bin/setWLSEnv.sh
```

On Windows:

```
SET MW HOME=C:\Oracle\Middleware\soa
SET SOA HOME=%MW HOME%\soa
SET ORACLE HOME=%MW HOME%\soa
SET PRODUCT_HOME=C:\Product_Homes\OUCSS_INTGFLOWS
SET PATCH_HOME=C:\PATCH_DWNLD\23295348
cd %MW HOME%/wlserver/server/bin/
setWLSEnv.cmd
```

Notes:

- Do not delete the install directory. This directory is used as the download location for patches.
- For a Windows installation, when updating any of the properties listed in the table below, add "/" to the path (e.g., C:/OUCSS INTGFLOWS).
- This installation uses the values in \$PRODUCT_HOME and its underlying properties file that were used to configure the integrated flow installation.
- **B** Verify that the fields in Install Properties xml have been populated.

Update the <PRODUCT_HOME>/config/InstallProperties.xml file with values appropriate to your environment prior to installing the patch. Refer to Appendix C for a sample of the CSS BPEL Flows *InstallProperties.xml* file and an explanation of the properties and elements available in the file. (Step 1 in the in the PatchInstallInstructions.txt file included in the patch download.)

Notes:

- In InstallProperties.xml, the hostname, portnumber, protocol, and context entries in the "EdgeApplication/OUMDM/ManagedServer" node are used to build the MDM edge application end point URL in the ConfigurationProperties.xml file during install.
- In InstallProperties.xml, the hostname, portnumber, protocol, and context entries in the EdgeApplication/OUCCB/ManagedServer node are used to build the CCB edge application end point URL in the ConfigurationProperties.xml file during install.
- 4 Install the CSS BPEL Flows.

Follow the guidelines in step 4 in the **PatchInstallInstructions.txt** file included in the patch download. This section provides additional detail to supplement those steps. Step F is only needed if optional BPEL flows are needed.

- A Open a command prompt and go to the <ursipdir>\OUCSS_INTGFLOWS folder in which you unzipped OUCSS.zip (this is the folder referred to as PRODUCT_HOME, e.g., PRODUCT_HOME=/slot/oracle/OUCSS_INTGFLOWS).
- **B** Execute this command to install the Database artifacts like creating the tables, inserting the seed data.

On UNIX/Linux:

cd \$PRODUCT HOME/bin

ant -f InstallBuild.xml installDB DInstallProperties=\$PRODUCT HOME/config/InstallProperties.xml | tee idb.log

On Windows:

cd %PRODUCT_HOME%/bin

```
ant -f InstallBuild.xml installDB -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l idb.log
```

Note: After running above command, verify that installation log does not contain any errors and the build is successful. If there are any errors in install.log, fix the errors before running the install again.

C Execute this command to install the WebLogic Java resources such as JDBC Datasources, DB Adapter deployment, and Credentials maps for Edge applications.

On UNIX/Linux:

cd \$PRODUCT HOME/bin

```
ant -f InstallBuild.xml installWL -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml | tee iwl.log
```

On Windows:

cd %PRODUCT HOME%/bin

```
ant -f InstallBuild.xml installWL -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l iwl.log
```

Note: After running above command, verify that installation log does not contain any errors and the build is successful. If there are any errors in install.log, fix the errors before running the install again.

- **D** After executing the above command it is higly recommended to restart the Admin Server and all the SOA managed servers under the domain.
- **E** Execute this command to install the SOA artifacts like SOA Partitions, Update the MDS with the CSS artifacts and deployment of the mandatory composites.

On UNIX/Linux:

cd \$PRODUCT HOME/bin

```
ant -f InstallBuild.xml installSOA -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml | tee InstallSOA.log
```

On Windows:

```
cd %PRODUCT_HOME%/bin
```

```
ant -f InstallBuild.xml installSOA -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l InstallSOA.log
```

Note: After running above command, verify that installation log does not contain any errors and the build is successful. If there are any errors in install.log, fix the errors before running the install again.

F Execute this command in order to install the Optional OUCSS-OUCCB BPEL Flows. This step is optional; it should only be executed if the optional OUCSS-OUCCB BPEL flows are required.

On UNIX/Linux:

cd \$PRODUCT_HOME/bin

```
ant -f InstallBuild.xml installOptionalSOA -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l InstallOptFlows.log
```

On Windows:

cd %PRODUCT_HOME%/bin

```
ant -f InstallBuild.xml installOptionalSOA -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l
InstallOptFlows.log
```

- **G** If the OUCSS Portal and/or OUCSS Inbound Services are installed prior to the installation of OUCSS BPEL Flows and any other BPEL flows (e.g., Oracle Utilities Notification Center Flows, CCB-MDM Flows) are pending:
 - Ensure that the flows are installed.
 - Run the commands described in the <u>Modifying all Edge Application Connections</u> topic in Appendix F, <u>Connection Management</u>, to ensure that the new flows are registered with the OUCSS Portal and/or OUCSS Inbound Services.Post-Installation Checklist for Mandatory CSS BPEL Flows

Data Source Configurations Checklist

- 1 Ensure that the following data sources are created on the server:
 - **OUCSSEHDS** Error Handling Data Source
 - CSSNMSMultiDS NMS Multi Data Source
 - CSSNMSDataSource1 NMS Generic Data Source

Navigation: On the left pane, select the Services > Data Sources; check the data sources marked below are installed:

hange Center		I Hom	ne Log Out	Preferences	Record He	"P	Ŷ	veicome, weblo	gic Connected to: soa_d
liew changes and restarts		Home >	»Summary	of JDBC Data	Sources				
lick the Lock & Edit button to modify, add or	5	summa	ry of JDBC	Data Sourc	25				
elete items in this domain.		Config	uration	Monitoring					
Lock & Edit				-					
Release Configuration		A JDB on the	C data sou e JNDI tree	rce is an object and then born	bound to the J wadatabase c	NDI tree that provides database connectiv connection from a data source.	ity through a pool of JDBC connec	tions. Applications	can look up a data source
main Structure		This n	are summa	rizes the 1DBC	data source ob	ierts that have been created in this domai			
a_domain		mis p	age summa	1263 (16 5000	data source ob	isco diachave been created in dis domai			
-Domain Partitions									
-Environment		🖗 Custo	omize this	i table					
-Services E		Data	Sources (I	Filtered - Mo	re Columns Ex	iist)			
Messaging		Click th	he Lock &	<i>Edit</i> button in	the Change Cer	ter to activate all the buttons on this page			
Persistent Stores					-				
Foreign JNDI Providers		New	v v Dele	ete				Showing 1	to 20 of 20 Previous N
Work Contexts					_			_	
XML Registries			Name 🛷		Туре	JNDI Name	Targets	Scope	Domain Partitions
jCOM			CCB-NMSEH	IDS	Generic	jdbc/CCB-NMSEHDS	soa_server1	Global	
Mail Sessions			CCB2-MDM2	2EHDS	Generic	jdbc/CCB2-MDM2EHDS	soa_server1	Global	
ow do I E			CSSNMSDat	aSource1	Generic	jdbc/CSSNMSDataSource1	soa_cluster1	Global	
Create JDBC generic data sources			CSSNMSMul	ltiDS	Multi	jdbc/CSSNMSMultiDS	soa_cluster1	Global	
Create JDBC GridLink data sources			EDNDataSo	urce	Generic	jdbc/EDNDataSource	soa_cluster1	Global	
Create JDBC multi data sources			EDNLocalTx	DataSource	Generic	jdbc/EDNLocalTxDataSource	soa_cluster1	Global	
Create UCP data sources			LocalSvcTbl	DataSource	Generic	jdbc/LocalSvcTblDataSource	AdminServer	Global	
create Proxy data sources			mds-owsm		Generic	jdbc/mds/owsm	AdminServer, soa_cluster1	Global	
rstem Status 🛛			mds-soa		Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_cluster1	Global	
alth of Running Servers			NMSJDBCD	ataSource	Generic	jdbc/NMSJDBCDataSource	soa_server1	Global	
Earled (0)	11.		opss-audit-l	DBDS	Generic	jdbc/AuditAppendDataSource	AdminServer, soa_cluster1	Global	
Critical (0)			opss-audit-	viewDS	Generic	jdbc/AuditViewDataSource	AdminServer, soa_cluster1	Global	
Overloaded (0)			opss-data-s	source	Generic	jdbc/OpssDataSource	AdminServer, soa_cluster1	Global	
Warning (0)			OraSDPMDa	ataSource	Generic	jdbc/OraSDPMDataSource	soa_cluster1	Global	
OK (2)				c	Coporis	ide/OUCSSENDS	soa cluster1	Clobal	

2 Check that the Connection Pool settings for the Generic Data Source(s) and Error Handling Data Source are correctly pointing to their corresponding database.

Navigation: On the Left Pane, select Services > Data Sources and in the main page select the Connection Pool tab check the URL and properties text area for the credentials

- A NMS Generic Data Source CSSNMSDataSource1 must point to the NMS Database.
- **B** Verify that the Error Handling Data Source is pointing to the correct Error Handling Database.
- **3** Test the database for correct configurations.

Navigation: On the Left Pane, select the **Services > Data Sources** and in the main page select the **Monitoring** tab. Select the sub task **Testing** and test the connectivity for the NMS Generic Data Source and Error Handling Data Source.

4 Verify that the NMS Generic Data Source(s) is linked to the NMS Multi Data Source(s).

Database Outbound Connection Pool

- 1 Ensure that following two connection instances are created on the server:
 - eis/DB/OUCSSErrorHandling: ErrorHandling connection instance.
 - eis/DB/CSSNMS: NMS connection instance.
- 2 On the Left Pane, select the **Deployments**, click on the **DBAdapter_OUCSS**, select the **Configuration** tab and select the **Outbound Connection Pools** tab.
- **3** Expand javax.resource.cci.ConnectionFactory.

	r Administ	tration C	Console 12c	:								Ģ
Change Center		Home Log Out Preferences 🖾 Record Help Welcome, weblogic Connected to: soa_dom										
View changes and restarts	Ho	Home >Summary of JDBC Data Sources >Summary of Deployments >DbAdapter >Summary of Deployments >DbAdapter_OUCSS										
Click the Lock & Edit button to modify, add or	Sett	Settings for DbAdapter_OUCSS										
delete items in this domain.	Ov	erview	Deployment	t Plan	Configuration	Security	Targets	Control	Testing	Monitoring	Notes	
Lock & Edit	Ge	eneral	Properties	Outb	ound Connection	Pools	Admin Objec	ts Work	load In	strumentation		
Domain Partitions Environment Deployments Services -Messaging Data Sources Persistent Stores		utbound lick the L	instance to co d Connectio . <i>ock & Edit</i> b	n Pool utton i	e it. Automatically g I Configuration To n the Change Centr	enerated c able er to activa	onnection po ate all the but	ols are not tons on th	displayed s page.	in the table be	low.	to 1 of 1 Previous Next
Foreign JNDI Providers Work Contexts XML Registries		Gro	oups and Instances 🗞				Cor	Connection Factory Interface				
XML Entity Caches iCOM		Ξj	iavax.resource	e.cci.C	onnectionFactory			java	ax.resourc	e.cci.Connectic	nFactory	
Mail Sessions	-		eis/DB/CSSNM	s				java	ax.resourc	e.cci.Connectic	nFactory	
How do I			eis/DB/OUCSS	ErrorH	andling			java	ax.resourc	e.cci.Connectic	nFactory	
Configure outbound connection pool properties		New	Delete								Showing 1	to 1 of 1 Previous Next

4 Select the eis/DB/CSSNMS connection factory and make sure the xaDataSourceName is pointed to the NMS Multi Data Source JNDI name.

	Administration	Console 12c					õ
Change Center	🔒 Home	Log Out Prefere	ences 📐 Record H	elp	٩	Welcome, web	logic Connected to: soa_domain
View changes and restarts	Home >S	ummary of JDBC [ata Sources >Summar	y of Deployr	nents >DbAdapter >S	Summary of Deployments > DbAd	apter_OUC\$\$
Click the Lock & Edit button to modify, add or	Settings f	or javax.resou	rce.cci.Connection	Factory			
delete items in this domain.	General	Properties	Transaction Auth	entication	Connection Pool	Logging	
Lock & Edit					1		
Release Configuration	This pag	ie allows vou to v	iew and modify the co	nfiguration	properties of this o	utbound connection pool. Prope	rties vou modify here are saved
	toadep	loyment plan.		-			
Domain Structure	Outhout		D				
soa_domain		na connection	Propercies				
EP-Environment	Click the	Lock & Edit but	ton in the Change Ce	nter to activ	vate all the buttons	on this page.	
Deployments	Save					Shov	ving 1 to 8 of 8 Previous Next
		1					
Data Sources	Proper	ty Name 🚕	Property Type	Propert	y Value		Supports Dynamic Updates
Persistent Stores	DataSou	urceName	java.lang.String				false
Work Contexts	Default	NChar	java.lang.Boolear	false			false
XML Registries	Platform	ClassName	java.lang.String	org.eclips	e.persistence.platfo	orm.database.Oracle10Platform	false
jCOM	Sequen	cePreallocationSiz	e java.lang.Integer	1			false
i EMail Sessions	UsesBat	chWriting	java.lang.Boolear	true			false
How do I 🖃	UsesNal	tiveSequencing	java.lang.Boolear	true			false
Configure outbound connection pool	UsesSki	oLocking	java.lang.Boolear	true			false
propercies	XAData:	5ourceName	java.lang.String	jdbc/CSSI	VMSMultiDS		false
System Status 🗆	Save					Shov	ving 1 to 8 of 8 Previous Next

NMS Multi Data Source JNDI name is found on Services > Data Sources and in the General tab.

5 Select the eis/DB/OUCSSErrorHandling: connection factory and make sure dataSourceName is pointed to the Error Handling JNDI name.

Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database

1 Ensure **BPEL_OUNMSSUBMITCALLSTOREDPROC** package is created under the Package folder in NMS Database.



Note: This BPEL Wrapper Procedure is used by the DB adapter in OUCSSOUNMSTroubleCallInterfaceEBF when submitting an outage or trouble call to NMS.

2 Ensure PK_CCB_INPUT_CALL_REC2 object is created under the Types folder in NMS Database.



Note: This type is being used by the BPEL Wrapper Procedure.

Verifying Composites in Enterprise Manager

Verify that the OUCSS partition was created with all the composites deployed:

- **1** Log in to Enterprise Manager.
- 2 Expand the Target Navigation >SOA > soa-infra >OUCSS partition.
- 3 On the Right Hand side find the deployed Composites to be 62 in total if optional CSS BPEL flows are also installed. If only mandatory CSS BPEL flows are installed then there will only be 22 composites deployed.

RACLE Enterprise Manager Fusion Middleware Control	12c 🔚 WebLogic Domain 🔻	👬 SOA Infrastructure	▼ weblogic ▼
OUCSS O ③ SOA Partition ashboard Deployed Composites Flow Instances Error Hospital		Aug	3, 2016 7:12:54 AM PDT -
Composites Control v Deployment v			
artitions are logical groupings of composites to help you manage large deplo	yments. The following SOA com	posite revisions are deploy	ed in this partition.
	Search	Search Composite (full	or partial name) 🔍
		Compo	site Revisions Found 6
Composite	Mode	Status	Deployed
OUCSSOUCCBWXFinancialHistoryRetrieverEBF [1.0]	Active	û	Aug 2, 2016
OUCSSOUCCBWXBillViewEBF [1.0]	Active	û	Aug 2, 2016
OUCSSOUMDM2MultipleAccountUsageAggregationEBF [1.0]	Active	û	Aug 1, 2016
OUCSSOUCCBWXMaintainMailingAddressInfoEBF [1.0]	Active	û	Aug 2, 2016
OUCSSOUMDM2GetUsageOverviewEBF [1.0]	Active	ن	Aug 1, 2016
OUCSSOUCCBWXGetRatedSAsEBF [1.0]	Active	٠	Aug 2, 2016
OUCSSOUCCBWXContextInfoEBF [1.0]	Active	ۍ	Aug 2, 2016
OUCSSOUCCBWXMaintainCommPreferencesEBF [1.0]	Active	٠	Aug 2, 2016
OUCSSOUCCBWXRetrieveAccountDocumentsEBF [1.0]	Active	û	Aug 2, 2016
OUCSSOUCCBWXPremiseSearchEBF [1.0]	Active	û	Aug 2, 2016
PurgeIntegrationErrorStore [1.0]	Active	û	Aug 1, 2016
OUCSSGetAlertsEBF [1.0]	Active	û	Aug 1, 2016
OUCSSOUNMSOutageSummaryEBF [1.0]	Active	û	Aug 1, 2016

Verify Security Credentials from EM

Follow these steps to verify security for connecting to Oracle Utilities Meter Data Management (MDM) and Oracle Utilities Customer Care and Billing (CCB) from SOA12c middleware:

- 1 Log in to the Enterprise Manager.
- 2 From Target Navigation, expand WebLogic Domain and click soa_domain
- 3 On the soa_domain page, go to the WebLogic Domain dropdown. Click Security > Credentials.
- 3 Expand the oracle.wsm.security credential and verify that the keys OU_CCB_01 and OU_MDM2_02 were created.

ORACLE Enterprise Manager Fusion	🔚 WebLogic Domain 🔻 🛛 weblogi	c 💌 🚥	
soa_domain 0		Aug 3, 2016 7:19:05	AM PDT 👌
/Domain_soa_domain/soa_domain > Credentials			
Credentials			
A credential store is the repository of security data that certifia	es the authority of entities	used by Java 2, Java EE, and ADF application	15.
Credential Store Provider Credential Store Provider	aled service provider to s	store and manage their credentials securely.	
		Cradautial Kay	
View 🗸 🕂 Create Map 🕇 Create Key 🧪 E	dit 🗙 Delete	Name	► »
Credential	Туре	Description	
🔺 🚞 oracle.wsm.security			
♀ <mark>♀ OU_CCB_01</mark>	Password	CCB Edge Application WS Credentials	
8	Password		
basic.credentials	Password		
8	Password		
© OU_MDM2_02	Password	MDM Edge Application WS Credentials	
Ŷ	Password		

Verify Attached Policies from EM

Follow these steps to verify the policies attached to the web services that each BPEL process is using:

- 1 Log in to Enterprise Manager.
- 2 Expand the SOA -> soa-infra ->OUCSS partition.
- 3 Choose OUCSSGetAlertsEBF, scroll down to the Services and References section in Dashboard Tab.
 - Verify that the **WXGetCCBAlertsService** Web Service Type with Service Usage is linked to a service policy:

Click on the service and select the **Policies** tab:

Enterprise Manager Fusion Mid	dleware Control 12c					n WebLogic	Domain 🔻 🚻	SOA Infrastru
OUCSSGetAlertsEBF [1.0]								
ctive Retire Shut Down Test Set	tings 🔻 🎘							
ashboard Composite Definition Flow Instances Un	it Tests Policies							
ou can view and manage the list of policies attached to the	web service bindings and com	ponents of thi	is SOA comp	oosite applica	tion. Click 'Attach	To/Detach From'	to update the list	of attached po
ou can view and manage the list of policies attached to the View v <i>Institution of the state o</i>	web service bindings and com	ponents of thi	is SOA comp	oosite applica	tion. Click 'Attach	To/Detach From'	to update the list	of attached po
You can view and manage the list of policies attached to the	web service bindings and com	ponents of thi Policy	s SOA comp	oosite applica Total	tion. Click 'Attach	To/Detach From' Security V	to update the list	of attached po
Yiew and manage the list of policies attached to the View a Attach To/Detach From a Policy Name	web service bindings and com	Policy Reference Status	s SOA comp Category	oosite applica Total Violations	tion. Click 'Attach Authenticatio	To/Detach From' Security V Authorization	to update the list iolations Confidentiality	of attached po y Integrity
Yiew and manage the list of policies attached to the View and Manage the list of policies attached to the Policy Name oracle/Utilities_wss_http_token_service_policy_OPT_ON	web service bindings and com Attached To	Policy Reference Status Disable	Category	Total Violations	tion. Click 'Attach Authentication 0	To/Detach From ¹ Security V Authorization	to update the list 'iolations Confidentiality 0	of attached po / Integrity 0
<pre>/ou can view and manage the list of policies attached to the View v Attach To/Detach From v Policy Name oracle/Utilities_wss_http_token_service_policy_OPT_ON oracle/Utilities_wss_http_token_client_policy_OPT_ON</pre>	Web service bindings and com	Policy Reference Status Disable	s SOA comp Category Security Security	Total Violations	tion. Click 'Attach Authentication 0	To/Detach From ¹ Security V Authorization 0	to update the list iolations Confidentiality 0	of attached po / Integrity 0

• Verify that the **OUCCBGetAlertsService** Web Service Type with Reference Usage is calling a CCB Web Service and is linked to a appropriate client policy.

4 Iterate this process for other Composites randomly to check if the appropriate policies are attached as mentioned in the Installation Properties file.

Note: Please refer to <u>Appendix I</u> for more information on Security Policies.

Post-Installation Checklist for Optional OUCSS-OUCCB BPEL Flows

Verifying Composites in SOA Enterprise Manager

- **1** Log in to the SOA Enterprise Manager.
- 2 Expand the Farm_soa_domain>soa>soa-infra>OUCSS partition.

Total deployed composites should be **62** if optional CSS BPEL flows are also installed. There are 40 composites for the optional flows.

DRACLE Enterprise Manager Fusion Middleware Control 12c		₽s w	ebLogic Domain 👻 👬 SOA Infrastructure 👻	weblogic * •
OUCSS 0 (B) SOA Partition +			3ul 28	, 2016 5:09:47 AM PDT 我
Dashboard Deployed Composites Flow Instances Error Hospital				
Composites Control * Deployment *				
Partitions are logical groupings of composites to help you manage large deployments. The following SOA composite revis	ions are deployed in this partition.			
			Search OUCSSOUCCB	9
			Compos	te Revisions Found 40
Composite	Mode	Status	Deployed ?	
OUCSSOUCCBWXBudgetDetailsEBF [1.0]	Active	Û	Jul 24, 2016 11:44:48 PM	<u>^</u>
 OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF [1.0] 	Active	Ŷ	Jul 25, 2016 12:00:51 AM	
OUCSSOUCCBWXContextInfoEBF [1.0]	Active	Û	Jul 24, 2016 11:45:33 PM	
 OUCSSOUCCBWXVerifyAccountEBF [1.0] 	Active	Ŷ	Jul 25, 2016 12:04:25 AM	
 OUCSSOUCCBWXMakePaymentEBF [1.0] 	Active	Ŷ	Jul 24, 2016 11:54:48 PM	
 OUCSSOUCCBWXPremiseSearchEBF [1.0] 	Active	Ŷ	Jul 24, 2016 11:56:14 PM	
 OUCSSOUCCBWXSetBillNotifyPreferenceEBF [1.0] 	Active	Ŷ	Jul 25, 2016 12:03:05 AM	
 OUCSSOUCCBWXMaintainCSSUserAccountEBF [1.0] 	Active	Ŷ	Jul 25, 2016 12:09:15 AM	
 OUCSSOUCCBWXFinancialHistoryRetrieverEBF [1.0] 	Active	Ŷ	Jul 24, 2016 11:48:03 PM	
 OUCSSOUCCBWXEBillSetupEBF [1.0] 	Active	Ŷ	Jul 24, 2016 11:47:15 PM	
 OUCSSOUCCBWXUsageChargesToDateEBF [1.0] 	Active	Ŷ	Jul 25, 2016 12:03:45 AM	
OUCSSOUCCBWXRateAnalysisEBF [1.0]	Active	Û	Jul 24, 2016 11:59:19 PM	
 OUCSSOUCCBWXCreateMeterReadEBF [1.0] 	Active	Û	Jul 24, 2016 11:46:28 PM	
 OUCSSOUCCBWXMultipleAccountFinancialHistoryEBF [1.0] 	Active	Û	Jul 24, 2016 11:55:33 PM	
OUCSSOUCCBWXAccountSearchEBF [1.0]	Active	Û	Jul 24, 2016 11:41:56 PM	
OUCSSOUCCBWXUsageChargesProjectedEBF [1.0]	Active	Û	Jul 25, 2016 12:06:53 AM	
 OUCSSOUCCBWXGetConsumptionSummaryEBF [1.0] 	Active	Ŷ	Jul 24, 2016 11:50:19 PM	
OUCSSOUCCBWXProcessPayArrangementRequestEBF [1.0]	Active	습	Jul 24, 2016 11:57:51 PM	
OUCSSOUCCBWXBillViewEBF [1.0]	Active	Ŷ	Jul 24, 2016 11:44:10 PM	
OUCSSOUCCBWXInvitePersonListEBF [1.0]	Active	Ŷ	Jul 24, 2016 11:53:07 PM	
OUCSSOUCCBWXMaintainPhoneInfoEBF [1.0]	Active	Ŷ	Jul 24, 2016 11:53:57 PM	

Verify Security Credentials from SOA Enterprise Manager

Follow these steps to verify security for connecting to Oracle Utilities Customer Care and Billing (CCB) from SOA11g middleware:

- 1 Log in to the SOA Enterprise Manager.
- 2 Expand WebLogic Domain and right-click soa_domain > Security > Credentials.
- 3 Expand the oracle.wsm.security credential and verify that the keys OU_CCB_01 is created.

	c 🔚 WebLogic Domain 🔻	weblogic 🔻 🚥			
Soa_domain		Aug 3,	, 2016 7:19:05 AM PDT 👈		
/Domain_soa_domain/soa_domain > Credentials					
Credentials					
A credential store is the repository of security data that of	ertifies the authority of entiti	es used by Java 2, Java EE, and AD)F applications.		
Applications can use the Credential Store, a single, con	solidated service provider it	o store and manage their credential	is securely.		
View 👻 🕂 Create Map 🕂 Create Key	🖍 Edit 🗙 Delete	Credential Key Name	► >>		
Credential	Туре	Description			
🔺 🚞 oracle.wsm.security					
₽ OU_CCB_01	Password	CCB Edge Application WS Cre	dentials		
Ŷ	Password				
basic.credentials	Password				
Ŷ	Password				
© OU_MDM2_02	Password	MDM Edge Application WS Cre	dentials		
Ŷ	Password				

Verify Attached Policies from SOA Enterprise Manager

Follow these steps to verify the policies attached to the web services that each BPEL process is using:

- 1 Log in to SOA Enterprise Manager.
- 2 Expand the SOA -> soa-infra -> OUCSS partition.
- 3 Choose a composite (example: OUCSSOUCCBWXAccountSearchEBF), then scroll down to the Services and References section and verify that security policies are attached.

Note: Please refer to <u>Appendix I</u> for more information on Security Policies.

Updating the MDS Folder

Prerequisite: Before updating the MDS folder, set the environment variables as described in step 2 in the "Installing the Integration" procedure earlier in this chapter.

To update the MDS folder, open a Command prompt and execute the following command:

On UNIX/Linux:

cd \$PRODUCT HOME\bin

```
ant -f InstallBuild.xml updateMDS -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee updatemds.log
```

On Windows:

cd %PRODUCT_HOME%\bin

```
ant -f InstallBuild.xml updateMDS -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l updatemds.log
```

Note: After running the command check updatemds.log for any errors. Fix any errors in the log and rerun updateMDS command.

MDS Deployment Examples

The Product Home folder (e.g., OUCSS_INTGFLOWS) contains an MDS-Artifacts subfolder with all files that can be deployed to MDS:



Custom Schema Changes

If custom elements are added to the application object schema (e.g., the MDM schema), the ApplicationObjectLibrary folder must be updated in MDS

Concrete WSDL Changes for Extensions

If the extension service needs to be called by a process and the concrete WSDL is updated, the ExtensionServiceLibrary folder must be updated in MDS.

Uninstalling Direct Integrated Flows

To uninstall direct integrated flows:

1 Set the environment variables as described in Step 3-A in the "Installing the Integration" topic earlier in this chapter.

2 Execute the following command to go to the PRODUCT_HOME:

On UNIX/Linux:

cd \$PRODUCT HOME/bin

On Windows:

cd %PRODUCT_HOME%/bin

3 Verify that the <PRODUCT_HOME>/config/InstallProperties.xml file have values appropriate to your environment.

See <u>Appendix C</u> for a sample CSS BPEL Flows *InstallProperties.xml* file and an explanation of the properties and elements available in the file.

Note:

- In InstallProperties.xml, the hostname, portnumber, protocol, context entries in the "EdgeApplication/OUMDM/ManagedServer" node are used to build the MDM edge application end point URL in the ConfigurationProperties.xml file during install.
- In InstallProperties.xml, the hostname, portnumber, protocol, and context entries in the EdgeApplication/OUCCBManagedServer node are used to build the CCB edge application end point URL in the ConfigurationProperties.xml file during install.
- **4** Execute the following Command to uninstall the OUCSS-OUCCB optional integration flows. These optional BPEL flows were installed when the command in step 4-F (in the "Installing the Integration" procedure) was executed. This step can be ignored if the Optional flows were not previously installed.

On UNIX/Linux:

cd \$PRODUCT_HOME/bin

```
ant -f UnInstallBuild.xml uninstallOptionalSOA -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml -l uninstallOptFlows.log
```

On Windows:

cd %PRODUCT HOME%/bin

```
ant -f UnInstallBuild.xml uninstallOptionalSOA -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l uninstallOptFlows.log
```

5 Execute the following command to complete the BPEL Flows integration uninstallation

On UNIX/Linux:

cd \$PRODUCT HOME/bin

ant -f UnInstallBuild.xml uninstallSOA DInstallProperties=\$PRODUCT HOME/config/InstallProperties.xml | tee uninstallSOA.log

On Windows:

cd %PRODUCT_HOME%/bin

```
ant -f UnInstallBuild.xml uninstallSOA -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l uninstallSOA.log
```

Note: After running above command, verify that installation log does not contain any errors and the uninstallation is successful. If there are any errors in uninstallation log and fix the errors before rerunning the uninstall command.

6 Execute the following command to complete the WebLogic Java resources such as Datasources, DB Adapters uninstallation

On UNIX/Linux:

cd \$PRODUCT HOME/bin

```
ant -f UnInstallBuild.xml uninstallWL -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l uninstallWL.log
```

On Windows:

```
cd %PRODUCT HOME%/bin
```

```
ant -f UnInstallBuild.xml uninstallWL -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l uninstallWL.log
```

Note: After running above command, verify that installation log does not contain any errors and the uninstallation is successful. If there are any errors in uninstallation log and fix the errors before rerunning the uninstall command.

7 Execute the following command to complete the Database schemas like CSS Error Handling uninstallation.

On UNIX/Linux:

```
cd $PRODUCT HOME/bin
```

```
ant -f UnInstallBuild.xml uninstallDB -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml | tee uninstallDB.log
```

On Windows:

```
cd %PRODUCT_HOME%/bin
```

```
ant -f UnInstallBuild.xml uninstallDB -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l uninstallDB.log
```

Note: After running above command, verify that installation log does not contain any errors and the uninstallation is successful. If there are any errors in uninstallation log and fix the errors before rerunning the uninstall command.

8 After executing the above command it is higly recommended to restart the Admin Server and all the SOA managed servers under the domain

Chapter 4

Installing CCB-MDM Integrated Flows

If Oracle Utilities Customer Self Service (CSS) is integrating with Oracle Utilities Customer Care and Billing (CCB) and Oracle Utilities Meter Data Management (MDM), Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 12.1.1 Media Pack, which also includes the CCB-MDM integrated flow used in CSS, needs to be installed.

This section covers software requirements and installation verification steps.

Software Requirements

The Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 12.1.1 Media Pack with the latest patches must be installed and running on the server.

Make sure the following patches are installed:

- Patch 23544337 CCB-MDM USAGE REQ FIX DATE ISSUE CSS CHARGES TO DATE AFFECTED
- Patch 23211903 NEW DYNAMIC OR CONTRACT OPTION AND EVENTS SYNC ADDED TO CCB2-MDM2INTEGRATION

Note: This integration does not require installation of the AIA Foundation Pack.

Verify CCB-MDM Flows

Once Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 12.1.1 Media Pack is installed and running on the server, verify the following:

Verify that CCB-MDM Integrated flows used for OUCSS are in the Enterprise Manager

- 1 Log in to Enterprise Manager.
- 2 Expand the Farm_soa_domain>soa>soa-infra>CCB2-MDM2 partition.

- **3** Verify that following two composites are deployed:
 - OUCCB2OUMDM2SSUsageReqEBF
 - OUCCB2OUMDM2SSUsageAdjustmentReqEBF

ORACLE Enterprise Manager Fusion Middleware Control 12c		to WebLo	gic Domain 🔻	SOA Infrastructure 👻	weblogic 🔻	
CCB2-MDM2 0 ③ SOA Partition v Dashboard Deployed Composites Flow Instances Error Hospital				Jul 28,	2016 5:45:34 AM PC	л Ю
Composites Control v Deployment v						•
Partitions are logical groupings of composites to help you manage large deployments. The following SOA composite revisions are deployed in this partition.						
		Se	earch OUCCB	B2OUMDM2SS	(2
				Compos	ite Revisions Four	nd 2
Composite	Mode	Status	Deployed ?			
OUCCB2OUMDM2SSUsageAdjustmentReqEBF [1.0]	Active	û	Jul 4, 2016 11:	:26:35 PM		
OUCCB20UMDM2SSUsageReqEBF [1.0]	Active	습 Jul 4, 2016 11:25:05 PM				

Note: Only OUCCB2OUMDM2SSUsageReqEBF and OUCCB2OUMDM2SSUsageAdjustmentReqEBF are used by OUCSS.

- **4** If the OUCSS Portal and/or OUCSS Inbound Services are installed prior to installation of the CCB-MDM Integrated Flows and the installation of any BPEL flows(e.g., Oracle Utilities Notification Center Flows, OUCSS BPEL Flows) are pending:
 - **A** Ensure that the flows are installed.
 - **B** Run the commands described in the <u>Modifying all Edge Application Connections</u> topic in Appendix F, <u>Connection Management</u>, to ensure that the new flows are registered with the OUCSS Portal and/or OUCSS Inbound Services.

Chapter 5

Installing Oracle Utilities Notification Center Flows

Oracle Utilities Notification Center is pre-integrated with OUCSS, OUCCB and OUNMS and facilitates processing and sending of messages to customers.

Edge Applications –CCB and NMS provide a mechanism to send messages (or notifications) to customers. The means of delivery are SMS or email, additional delivery channels can be introduced via extensions. OUNC processes all the notifications sent by the edge applications and sends the notification messages to customers. OUCSS provides a unified "hub" by which all these differing notifications can be managed by the customer. The customer is able to define a notification profile that captures how they wish to receive the notifications and notification preferences that captures the type of notifications they want to receive for the account.

This section describes the installation steps for OUNC BPEL flows.

Note: These flows do not require installation of the AIA Foundation Pack.

Software Requirements

The following software must be installed, configured and running prior to installation of OUNC BPEL flows:

- Oracle SOA Suite 12.2.1.0 on WebLogic Server 12.2.1
- OUNC is certified with the following edge applications:
- Oracle Utilities Customer Care and Billing v2.5.0.2
- Oracle Utilities Network Management System v1.12.0.2

Pre-Installation Tasks

The following tasks should be completed before you install the OUNC BPEL flows:

- Ensure that the Oracle SOA Suite 12.2.1.0 on WebLogic Server 12.2.1 is installed and running.
- Login into the Weblogic Server Administration console using the <u>http://admin_server_hostname:port/console</u> to confirm there are no changes in Pending Activation status.

Complete this step to verify that the WebLogic Server is in a healthy state. If any items are in Pending Activation status, then there is likely an issue on the server. All issues must be resolved before you can proceed with the installation.

- If it's not already running, start the Node Manager.
- Restart the Enterprise Manager and the WebLogic Administration server.
- Ensure the WebLogic Admin server, SOA server, and Node Manager up and are running.
- Create the new Product Home folder (e.g., OUNC_Flows).

Note: The syntax for **Product Home** depends on whether you are installing on Linux or Windows. On Linux, the variable is \$PRODUCT HOME. On Windows, it is \$PRODUCT HOME\$.

Domain Topology

Oracle recommends separate WebLogic domains for portal applications in which the OUCSS Portal application and OUCSS Inbound Services can be deployed (e.g., **portal_domain**, as well as a separate domain for installation of CSS BPEL flows and OUNC Flows, e.g., **soa_domain**).

Installation on SSL-Enabled Servers

The Admin server port in the installation properties can be specified with either the unsecured port or the SSL listening port. If the Admin server is enabled and the same is specified in the installation properties file, the installation will be carried out with the SSL port of the Admin server using the t3s (t3+SSL) protocol.

Cluster Installation

A WebLogic Server cluster consists of multiple WebLogic Server (Managed Server) server instances running simultaneously and working together to provide increased scalability and reliability.

For a cluster installation, the Oracle Http Server must be installed. For details, see In the installation properties file in the OHSServer section the following details must be completed:

Cluster Scenario

- Provide the details of the OHS server, including protocol, hostname, and portnumber, should the cluster load need to be balanced with the OHS server.
- mgdservernames should be completed with the server names that are configured in the cluster as well as the entries that are to be provided in the mod_wl_ohs.conf file.

If soa_server1 and soa_server2 are the WebLogic server instances in the soa_cluster1 WebLogic cluster:

- soa_server1 is hosted on node abc.yourcompany.com listening at port 8001, and soa_server2 is hosted on node bcd.yourcompany.com and listening at port 8001.
- abc.yourcompany.com:8001 and bcd.yourcompany.com:8001 must be registered in the mod w1 ohs.conf file.

• OUNC/Core/SOA/OHSServer/mgdservernames can be set to soa_cluster1, or by comma-separated values such as soa server1, soa server2, etc.

Standalone Scenario

If **soa_server1** is the only managed server:

- Provide the details of the OHS server, including the protocol, hostname, and portnumber of the managed server.
- OUNC/Core/SOA/OHSServer/mgdservernames must be soa_server1.

Installing the Integration

Installing on SOA 12c

- 1 Download the OUNC.zip from the Oracle Software Delivery Cloud (edelivery.oracle.com)
- 2 Extract the zip file to create OUNC_Flows folder. This folder includes a subfolder hierarchy as shown in the following image. If the folder is read-only, remove the read-only attribute from the folder.



3 Download patch 23295348 and follow the instructions included in the readme.txt file.

The following sub-steps provide more information related to the steps included in the readme file.

A Verify that the following environment variables are set.

Variable	Example
Unix/Linux and Windows OS	
PATCH_HOME	XXX/23295348
MW_HOME	XXX/Middleware
SOA_HOME	\$MW_HOME/soa
ORACLE_HOME	\$SOA_HOME
PRODUCT_HOME	This is the integrated flows product installation home.
	Example:
	Unix/Linux: PRODUCT_HOME=/slot/oracle/OUNC_Flows
	Windows: PRODUCT_HOME=C:\Oracle\OUNC_Flows

The following commands indicated in the readme file (*setWLSEnv.sh* on Linux or *setWLSEnv.bat* on Windows) set the environment variables used for executing the installation scripts.

On Windows:

cd %MW_HOME%\wlsserver\server\bin\

setWLSEnv.cmd

On UNIX/Linux:

source "\$MW HOME/wlserver/server/bin/setWLSEnv.sh"

The following example shows how to set up environment variables in a typical installation:

On Windows:

```
SET MW_HOME=C:\Oracle\Middleware\soa
SET SOA_HOME=%MW_HOME%\soa
SET ORACLE_HOME=%MW_HOME%\soa
SET PRODUCT_HOME=C:\Product_Homes\OUNC_Flows
SET PATCH_HOME=C:\PATCH_DWNLD\23295348
cd %MW_HOME%/wlserver/server/bin/
setWLSEnv.cmd
```

On UNIX/Linux:

```
export MW HOME=/Oracle/Middleware/soa
export SOA HOME=$MW HOME/soa
export ORACLE_HOME=$SOA_HOME
export PRODUCT HOME=/Product Homes/OUNC Flows
export PATCH_HOME=/PATCH_DWNLD/23295348
source $MW HOME/wlserver/server/bin/setWLSEnv.sh
```

Note:

- Do not delete the install directory. This directory is used as the download location for patches.
- For a Windows installation, when updating any of the properties listed in the table below, add "/" to the path (e.g., C:/OUNC_Flows).

- This installation uses the values in \$PRODUCT_HOME and its underlying properties file that were used to configure the integrated flow installation.
- **B** Verify the fields in Install Properties xml have been populated.

Update the <PRODUCT_HOME>/config/InstallProperties.xml file with values appropriate to your environment prior to installing the patch.

Refer to <u>Appendix D</u> for a sample of the OUNC *InstallProperties.xml* file and an explanation of the properties and elements available in the file. (Step 1 in the in the PatchInstallInstructions.txt file included in the patch download.)

Note: In InstallProperties.xml, the hostname, portnumber, protocol, context entries in the "OUNC / EdgeSystems /CCB" node are used to build the CCB edge application end point URL during install.

4 Install the OUNC BPEL Flows.

Follow the guidelines in step 4 in the **PatchInstallInstructions.txt** file included in the patch download. This section provides additional detail to supplement those steps.

- A Open a command prompt and go to the <unzipdir>\OUNC_Flows folder which is referred as PRODUCT_HOME. Example: PRODUCT_HOME=/slot/oracle/OUNC_Flows where you unzipped OUNC.zip
- **B** Under the <PRODUCT HOME>/Install/DB/sequence folder, check the following SQL files:
 - nc_notification_seq.sql
 - nc_user_delivery_opt_seq.sql
 - nc_user_notif_pref_seq.sql

On a new install, the start sequence is defaulted to 1. There is need to update the SQL files.

When reinstalling, perform the following steps:

- Determine the last sequence number of the sequences in the existing OUNC tables
- Update the starting value of the sequences to be last sequence number + 1 in the SQL files.
- **C** Execute this command to install the Database artifacts and complete the DB installation.

On UNIX/Linux :

cd \$PRODUCT HOME/bin

```
ant -f InstallBuild.xml installDB -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee
ouncInstallDB.log
```

On Windows:

cd %PRODUCT HOME%/bin

ant -f InstallBuild.xml installDB -DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l ouncInstallDB.log

Note:

- When reinstalling the Notification DB, make sure the starting value of the sequences are correct. Check the last number of the sequences before reinstalling. Make the last number + 1 be the start sequence of the new installation.
- After running the above command, verify that te installation log does not contain any errors and the build is successful. If there are any errors in install.log, fix the errors before running the install again.

D Execute the following command to install the WebLogic Java resources such as JDBC Satasources, DB Adapter deployment, credential maps for edge application, JMS Server, JMS Modules, JMS Queues, and JMS Topics.

On UNIX/Linux:

```
cd $PRODUCT_HOME/bin
ant -f InstallBuild.xml installWL -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml | tee
```

```
ouncInstallWL.log
```

On Windows:

cd %PRODUCT HOME%/bin

```
ant -f InstallBuild.xml installWL -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l ouncInstallWL.log
```

Note: After running the above command, verify that the installation log does not contain any errors and the build is successful. If there are any errors in install.log, fix the errors before running the install again.

- **E** After executing the above command it is highly recommended to restart the Admin Server and all the SOA managed servers under the domain.
- F Execute this command to install the SOA Partition and SOA Composites.

On UNIX/Linux:

```
cd $PRODUCT HOME/bin
```

```
ant -f InstallBuild.xml installSOA -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee
ouncInstallSOA.log
```

On Windows:

cd %PRODUCT_HOME%/bin

```
ant -f InstallBuild.xml installSOA -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l ouncInstallSOA.log
```

Note: After running the above command, verify that the installation log does not contain any errors and the build is successful. If there are any errors in install.log, fix the errors before running the install again.

- **G** If the OUCSS Portal and/or OUCSS Inbound Services are installed prior to the installation of the Oracle Utilities Notification Center flows, and if the installation of any BPEL flows (e.g., OUCSS BPEL Flows, CCB-MDM Flows) are pending:
 - Ensure that the flows are installed.
 - Run the commands described in the <u>Modifying all Edge Application Connections</u> topic in Appendix F, <u>Connection Management</u>, to ensure that the new flows are registered with the OUCSS Portal and/or OUCSS Inbound Services.

Email Configuration

Configure the Certificates of the Mail Server

1 Import the certificates from the Mail Server and add it to your server trust store.

The Email Server uses two protocols to send/receive messages.

- SMTP for sending.
- POP3 or IMAP for receiving mails. Configure the receiving protocol accordingly e.g., POP3/IMAP.
- **2** Get the <Mail Server> Certificate:

```
/usr/bin/openssl s client -connect <Mail Server>:<Mail Port Number> > smtp.cert
```

Where <Mail Server> is the SMTP server location and <MailPort Number> is the Mail Server listening port.

Example:

/usr/bin/openssl s_client -connect stxxx.yourcompany.com:425 >smtp.cert

3 Edit the smtp.cert by removing everything except the following:

```
--BEGIN CERTIFICATE--
<certificate>
--END CERTIFICATE--
```

Important: The BEGIN CERTIFICATE and END CERTIFICATE lines must remain in the file.

4 Import the certificates into a new trust store:

```
keytool -import -alias <Mail Server> -keystore ${WL_HOME}/server/lib/trusted-
certificates.jks -file smtp.cert
```

Note: You will be prompted to enter a password. Enter password>.

5 Edit the setDomainEnv.cmd or setDomainEnv.sh file (located in <WL_HOME>/user_projects/domains/<domain_name>/bin) by replacing the existing javax.net.ssl.trustStore property setting with the following:

```
-Djavax.net.ssl.trustStore=${WL_HOME}/server/lib/trusted-certificates.jks - Djavax.net.ssl.trustStorePassword=<password>
```

6 Restart the Admin Server and the Managed Server through the admin console

Sender Address Configuration

The User Messaging Service Email Configuration's OutgoingUsername and WorkFlowNotification's from Address are identical if you wish to configure it as a different one you need to navigate to the Enterprise Manager > soa-infra > SOA Administration and select the Workflow Properties/Workflow Notification Properties based on the version.

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t a Dasht	★ soa-infra ● SOA Infrastructure ▼ Home	w Instanc	es Error Hospital				Jul 2	3, 2016 6:24:47 AM PDT 👈
	Monitoring	Þ						
Key	Logs	▶ <i>P</i>	Business Transact	ion Faults	Search	1		
	SOA Deployment Manage Partitions Work Manager Groups	SOA Deployment Last 24 Hours Last Manage Partitions TION I Refresh region to show the latest data. Click graph to drill down.					Recent Instances - Last 24 Hours	
Def	Resequencing Groups			dapters Availability		_		
	Service Engines Services and References	•	v v soa_server1 ▼			Composite	Elow Ineta	nce Name or ID
	Business Events					Composite	Tiowinata	
507	SOA Administration	▶ Com	mon Properties	rt-Up Errors		Sensor Name	Sensor Va	lue
	Security	▶ BPEI	L Properties	y Errors				
U	Administration	▶ Medi	iator Properties	e UP			50	arch Instances
	Target Sitemap	Work	flow Pro rties	endpoints are UP			36	archinstances
	Target Information	Cros	s References	ded Services				
		Toke	n Configurations					
Syst	em Backlogs	Auto	Purge	tory: Last 24 A V Hours V 🕖				
Last	24 A V Hours V	Resi	liency Configuration Vo Suspended Se	Prvices				

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t soa-infra o t SOA Infrastructure ▼	Jul 28, 2016 6:26:18 AM PDT 👈
Mailer Task	
Information All changes made in this page require a server restart to take effect.	
Workflow Notification Properties	P Related Links v Apply Revert
Before configuring the Workflow Notification, configure the Messaging Service Driver. Go to the Messaging Driver page	
* Notification Mode All •	
Notification Service	
* Email : From Address mura a@oracle.com	
* Email : Actionable Address d	
* Email : Reply To Address a	
More Workflow Notification Configuration Properties	

Configuring Multiple Sender Address Configuration

Mapping has been changed for the Email Service; the notificationType is mapped to "FromAccountName" of Notification service

The **From Account** of the Notification service specifies the name of the account used to send this message. The default account is named **Default** and is editable from the Workflow Notification Properties page in Oracle Enterprise Manager Fusion Middleware Control as mentioned in the previous section. To add additional accounts, you must use the System MBean Browser in Oracle Enterprise Manager Fusion Middleware Control.

For information on editing "From Account Name" property in Oracle Enterprise Manager Fusion Middleware Control, see Oracle Fusion Middleware Administrator's Guide for Oracle SOA Suite and Oracle Business Process Management Suite.

Create ASNSDriver using the notification type as the driver Name for each of the notification types in the system (eg. OUT, RST, C1MP, C1PC, C1PP, WSLP, WSPR, WXBD, WXBR, C1FI). Use setASNSDriver and associate a different sender email addresses for each notification type. When email is received, depending on the notification type, the "From" email address will be different.

The "from" email address coming from CCB payload is mapped to the "replyTo" of the notification service.

Post Installation Checklist

Verify the User Messaging Service List

1 Go to the Deployments Section in the WebLogic administration console section and ensure that the applications shown below are active:

B B usermessagingdriver-apns	Installed		Enterprise Application		Global	8
B usermessagingdriver-email	Active	🖋 ок	Enterprise Application	soa_cluster1	Global	8
E usermessagingdriver-extension	Installed		Enterprise Application		Global	8
⊞usermessagingdriver-gcm	Installed		Enterprise Application		Global	8
⊞ rusermessagingdriver-smpp	Active	🖋 ок	Enterprise Application	soa_cluster1	Global	8
⊞usermessagingdriver-twitter	Installed		Enterprise Application		Global	8
⊞usermessagingdriver-xmpp	Installed		Enterprise Application		Global	8
⊞usermessagingserver	Active	🖋 ок	Enterprise Application	soa_cluster1	Global	7
⊞worklistapp	Active	🖋 ОК	Enterprise Application	soa_cluster1	Global	100
B wsm-pm	Active	🖋 ок	Enterprise Application	soa_cluster1	Global	5

- 2 Navigate to WebLogic Enterprise Manager, right click on the **soa-infra** node then select SOA Administration and Workflow Properties:
- 3 Ensure that the Work flow notification properties are set as "All".

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▲ soa-infra ●	Jul 28, 201	5 6:26:18 AM PDT 👌
All changes made in this page require a server restart to take effect		
Workflow Notification Properties	P Related Links 🔻	Apply Revert
Before configuring the Workflow Notification, configure the Messaging Service Driver. Go to the Messaging Driver page		
* Notification Mode All 🔻		
Notification Service		
* Email : From Address @oracle.com		
* Email : Actionable Address @oracle.com		
* Email : Reply To Address @oracle.com		

- 4 Expand the User Messaging service node in the EM left panel as follows:
 - ✓ User Messaging Service
 ♦ usermessagingdriver-email (soa_server1)
 ♦ usermessagingdriver-smpp (soa_server1)
 ♦ usermessagingserver (soa_server1)
- **5** Ensure that all these applications are enabled.

Verify EMAIL Properties

- 1 In the EM Console In the Target Navigation User Select Messaging Service > usermessagingdriver-email
- 2 From the Context Menu select Email Driver Properies
- **3** Select the usermessagingdriver-UGBUEMAIL and click on Edit.

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te dusermessagi	ngdriver-email ① I Email Driver ▼				Jul 28, 2016 9:23:59 /	AM PDT 👈
Message Folder	Message Folder			INBOX		-
Outgoing Mail Server	The name of the SMTP server. Mandatory only if e-mail sending is required.			⊧.com		
Outgoing Mail Server P	Outgoing Mail Server Port			25		
Outgoing Mail Server S	The security used by SMTP server. Possible values are None, TLS and SSL. Default value is None.			None •		
Default From Address	Deprecated. Use Default Sender Address instead. The default FROM address (if one is not provided in the outgoing message).			ara@oracle.com		
Outgoing Username	The username used for SMTP authentication. Required only if SMTP authentication is supported by the SMTP server.			ra@oracle.com		
Outgoing Password	The password used for SMTP authentication. Required only if SMTP authentication is supported by the SMTP server.		*	Type of Password Use Cleartext Password Password		•
Incoming Mail Server	The host name of the incoming mail server. Required only if e-mail receiving is supported on the driver instance.			company.domain.com		
Incoming Mail Server P	Port number of IMAP4 (i.e. 143 or 993) or POP3 (i.e. 110 or 995) server.			143		
Enable SSL	Whether or not to enable SSL when connecting to the IMAP4 or POP3 server. Default value is disabled.					

4 Ensure that all properties match those configured in the InstallProperties.xml file (see Appendix D).

Verify SMPP Properties

- 1 In the EM Console, go to Target Navigation User Select Messaging Service > usermessagingdriver-smpp.
- 2 From the Context Menu select SMPP Driver Properties.
- 3 Select the usermessagingdriver-UGBUSMPP, then click Edit.

ORACLE [®] En	terprise Manager Fusion Middlewa	re Control 12	2c			📙 WebLogic Domain 💌 🛛 weblogic 💌 🚥
te tusermessagi	ingdriver-smpp ① g SMPP Driver ▼					Jul 28, 2016 9:27:49 AM PDT 🔨
SMS Account ID	This value indicates the addresses that the SMPF driver is requesting messages for thm the server. The value is specified as a UNIX Regular Expression. For example, "555" would specify a single address, and "^123!^789" would indicate all addresses starting with 123 or 789.	~		9000		
SMS Server Host	SMSC server host name (or IP address)	~		.com		
Transmitter System ID	Account ID used to send out messages			smppclient1		
Transmitter System Typ	The type of transmitter system. The default value is 'Logica'.			Logica		
Transmitter System Pas	Password of transmitter system.		~	Type of Password Password	Use Cleartext Pass	word •
Transmitter Server Port	TCP port number of transmitter server.			2775		
Receiver System ID	Account ID used to receive messages			smppclient1		
Receiver System Type	The type of receiver system. The default value is 'Logica'.			Logica		
Receiver System Passv	Password of receiver system.		*	Type of Password Password	Use Cleartext Pass	word •
Receiver Server Port	TCP port number of receiver server.			2775		
	Encoding corresponding to the					

Data Source Configurations Checklist

- 1 Ensure that the following data sources are created on the server:
 - **OUNCEHDS** Error Handling Data Source
 - **OUNCDS** Notification Data Source
 - **OUNCNMSDS** NMS Generic Data Source

Navigation: On left pane, select the Services > Data Sources; check the data sources marked below are installed.

modify, add or delete items in this domain.	Con	figuration	Monitoring					
Domain Structure soa_domain Imperiorment Deployments Services Imperiorment Deployments Imperiorment Imperior Imperior <tr< th=""><th>A J cor Thi Cu Dat</th><th>IDBC data sou inection from is page summa istomize this ta Sources (i</th><th>rce is an object bound to the JNDI tree a data source. arizes the JDBC data source objects the is table (Filtered - More Columns Exist)</th><th>that provides databa</th><th>ise connectivity through a pool of JDBC connections. Applications can look up in this domain.</th><th>a data source on the JNDI tree and then borrow a database</th></tr<>	A J cor Thi Cu Dat	IDBC data sou inection from is page summa istomize this ta Sources (i	rce is an object bound to the JNDI tree a data source. arizes the JDBC data source objects the is table (Filtered - More Columns Exist)	that provides databa	ise connectivity through a pool of JDBC connections. Applications can look up in this domain.	a data source on the JNDI tree and then borrow a database		
XML Registries		lew ∽ Del	lete			Showing 1 to 14 of 14 Previous Next		
XML Entity Caches jCOM		Name 🗞		Туре	JNDI Name	Targets		
-File T3		CCB2-MDM	12EHDS	Generic	jdbc/CCB2-MDM2EHDS	soa_server1		
How do I		CSSNMSDa	ataSource1	Generic	jdbc/CSSNMSDataSource1	soa_server1		
Create JDBC generic data sources		CSSNMSMu	ltiDS	Multi	jdbc/CSSNMSMultiDS	soa_server1		
Create JDBC GridLink data sources		EDNDataSo	purce	Generic	jdbc/EDNDataSource	soa_server1		
Create JDBC multi data sources		EDNLocalTx	xDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1		
Delete JDBC data sources		mds-owsm		Generic	jdbc/mds/owsm	AdminServer, soa_server1		
Delete JDBC multi data sources		mds-soa		Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1		
Sustan Status		OraSDPMDa	ataSource	Generic	jdbc/OraSDPMDataSource	soa_server1		
System Status		OUCSSEHD	DS	Generic	jdbc/OUCSSEHDS	soa_server1		
Health of Running Servers		OUNCDS		Generic	jdbc/OUNCDS	soa_server1		
Failed (0)		OUNCEHDS	5	Generic	jdbc/OUNCEHDS	soa_server1		
Critical (0)			DS	Generic	jdbc/OUNCNMSDS	soa_server1		
Warning (0)] SOADataSo	ource	Generic	jdbc/SOADataSource	soa_server1		
OK (2)		SOALocalT>	xDataSource	Generic	jdbc/SOALocalTxDataSource	soa_server1		
New Delete Showing 1 to 1								

2 Check that the Connection Pool settings for the Generic Data Source(s) and Error Handling Data Source are correctly pointing to their corresponding database.

Navigation: On the Left Pane, select Services > Data Sources and in the main page select the Connection Pool tab check the URL and properties text area for the credentials

- A NMS Generic Data Source OUNCNMSDS must point to the NMS Database.
- B Verify that the Error Handling Data Source OUNCEHDS is pointing to the correct Error Handling Database.
- **C** Verify that the OUNCDS is pointing to the correct Notification data base.
- **3** Test the database for correct configurations.

Navigation: On the Left Pane, select the **Services** > **Data Sources** and in the main page select the **Monitoring** tab. Select the sub task **Testing** and test the connectivity for all the above mentioned data sources as depicted below.

- denote -	I			
a_domain ^	Save			
-Deployments				
Messaging	the connection pool within a JDB the connection pool is registered	, usually when starting up WebLogic Server or when deploying the d	is reserve, use, and the lata source to a new tar	en return to the pool. The connection pool and the connections within it are created when arget.
Data Sources				· •
Persistent Stores	Use this page to define the confi	guration for this data source's connection pool.		
Work Contexts	_		_	
XML Registries	CRL:	jdbc:oracle:thin:@		The URL of the database to connect to. The format of the URL varies by JDBC
XML Entity Caches				
Mail Sessions	🛱 Driver Class Name:	oracle idea va client OracleXADataSource		The full package name of JDBC driver class used to create the physical database
File T3		oracle.jubc.xa.cliencoracle/ADataSource		connections in the connection pool. (Note that this driver class must be in the
do I 🖃				classpath of any server to which it is deployed.) More Info
	A Properties:			The list of properties passed to the IDBC driver that are used to create physical
infigure testing options for a JDBC data	user=1			database connections. For example: server=dbserver1. List each property=value
afgure the statement cache for a 1DBC	DatabaseName=			pair on a separate line. More Info
nection pool				
nfigure credential mapping for a JDBC data				
urce				
nfigure connection harvesting for a nection pool				
	System Properties:			The list of System Properties names named to the IDBC driver that are used to
em Status 🖂	system properties:			create physical database connections. For example: server=dbserver1. List each
of Dunning Convers				property=value pair on a separate line. More Info
n of kunning Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)	De en un de			The account of the first second to the 1000 doing when section should be be
OK (2)	and Password:	•••••		Ine password attribute passed to the JUBC driver when creating physical databas connections. More Info
e Center	🔒 Home Log Out Preferences 📐	Record Help		Welcome, weblogic Connected to: soa_d
to contest	Home >Summary of JDBC Data Source	es >OUNCDS		
and restarts	Messages			
uration editing is enabled. Future	Test of OLINCDS on server soa	server1 was successful.		
, add or delete items in this domain.				
	Settings for OUNCDS			
Structure	Configuration Targets Monitor	oring Control Security Notes		
nain 🔺				
oyments	Statistics Testing			
ices				
Messaging	Use this page to test database cor	nnections in this JDBC data source.		
Persistent Stores				
Foreign JNDI Providers	Customize this table			
Vork Contexts				
ML Registries ML Entity Caches	Test Data Source (Filtered - M	ore Columns Exist)		
сом	Test Data Source			Showing 1 to 1 of 1 Previous N
tail Sessions				
	Server			State
I	soa_server1			Running
DBC data sources	Test Data Source			Showing 1 to 1 of 1 Previous N
gure testing options for a JDBC data				
e				
n Status 🗉				
of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				

JMS Configurations

1 Check for the JMS Server Configuration by choosing Services > Messages > JMS Servers.

ORACLE Webl ogic Server® Administration Console												
Change Center) 🏠 H	Home Log Out Preferences 🖂 Re	cord Help	Q		Welcome	e, weblogic Connected to: soa_domai					
View changes and restarts												
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Sum	Summary of JMS Servers										
Domain Structure	∭	d to them.										
soa_domain be-Environment Deployments Services Hessaging	D.€	Customize this table										
JMS Servers Store-and-Forward Agents IMS Modules		New Delete	,				Showing 1 to 6 of 6 Previous Next					
Path Services		🛯 Name 🗞		Persistent Store	Target	Current Server	Health					
Data Sources		BPMJMSServer		BPMJMSFileStore	soa_server1	soa_server1	🖋 ОК					
Persistent Stores		CCB2MDM2JS		CCB2MDM2FS	soa_server1	soa_server1	✓ ок					
Work Contexts		OUNCJMSServer		OUNCFileStore	soa_server1	soa_server1	🖋 ОК					
How do I		PS6SOAJMSServer		PS6SOAJMSFileStore	soa_server1	soa_server1	🖋 ОК					
Configure JMS servers		SOAJMSServer		SOAJMSFileStore	soa_server1	soa_server1	✓ ок					
Configure JMS system modules	E	UMSJMSServer	N	UMSJMSFileStore	soa_server1	soa_server1	✓ ОК					
System Status	i	New Delete	13	•		·	Showing 1 to 6 of 6 Previous Next					
Health of Running Servers												

2 Ensure the JMS module **OUNCJMSModule** is created. Also check that the **Seven** JMS Queues and one topic shown in the following image are created.

Resource Management	Su	mmary of Resources										
How do I 😑	Cli	Click the Lock & Edit button in the Change Center to activate all the buttons on this page.										
No task help found.	N	lew Delete	Show	Showing 1 to 9 of 9 Previous Next								
System Status	C	Name 🗇	Туре	JNDI Name	Subdeployment	Targets						
Health of Running Servers		NotifDeliveryErrQueue	Uniform Distributed Queue	jms/OUNC/NotifDeliveryErrQueue	OUNCSubdeployment	OUNCJMSServer						
Eailed (0)		NotifDeliveryTopic	Uniform Distributed Topic	jms/OUNC/NotifDeliveryTopic	OUNCSubdeployment	OUNCJMSServer						
Critical (0)		NotifInboundErrQueue NotifInboundQueue	Uniform Distributed Queue	jms/OUNC/NotifInboundErrQueue	OUNCSubdeployment	OUNCJMSServer						
Overloaded (0)			Uniform Distributed Queue	jms/OUNC/NotifInboundQueue	OUNCSubdeployment	OUNCJMSServer						
Warning (0) OK (2)		NotifPersistenceErrQueue	Uniform Distributed Queue	jms/OUNC/NotifPersistenceErrQueue	OUNCSubdeployment	OUNCJMSServer						
	C	NotifPersistenceQueue	Uniform Distributed Queue	jms/OUNC/NotifPersistenceQueue	OUNCSubdeployment	OUNCJMSServer						
		NotifReceiveErrQueue	Uniform Distributed Queue	jms/OUNC/NotifReceiveErrQueue	OUNCSubdeployment	OUNCJMSServer						
		NotifReceiveQueue	Uniform Distributed Queue	jms/OUNC/NotifReceiveQueue	OUNCSubdeployment	OUNCJMSServer						
		OUNCConnectionFactory	Connection Factory	jms/OUNCConnectionFactory	OUNCSubdeployment	OUNCJMSServer						
	N	lew Delete			Show	ring 1 to 9 of 9 Previous Next						
WebLogic Server Version 17.21.0.0	_											

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JMS Outbound Connection Pool

- 1 Ensure that following two connection instances are created on the server:
 - eis/wls/OUNCQueue: Queue Connection instance.
 - eis/DB/OUNCTopic: Topic Connection instance.
- 2 On the Left Pane, select the **Deployments**, click on the **JMSAdapter_OUNC**, select the **Configuration** tab and select the **Outbound Connection Pools** tab.
- 3 Expand oracle.tip.adapter.jms.IJmsConnectionFactory.

ORACLE WebLogic Server Ad	dministration Console 12c	Q									
Change Center	💼 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: soa_domain									
View changes and restarts	Home >Summary of JMS Modules >OUNCIMSModule >Summary of Deployments >JmsAdapter_OUNC										
Click the <i>Lock & Edit</i> button to modify, add or delete items in this domain. Lock & Edit	Settings for JmsAdapter_OUNC Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes										
Release Configuration	General Properties Outbound Connection Pools Admin Objects Workload Instrumentation										
Domain Structure soa_domain ⊕ - Domain Partitions ⊕ - Environment ├─- Servers ⊕ - Clusters	This page displays a table of outbound connection pool groups and instances for this resource adapter. The top level entries in the table represent connection factory interface and the instances are listed by their JNDI names. Expand a group to obtain configuration information for a connection the name of a group or instance to configure it. Automatically generated connection pools are not displayed in the table below. Outbound Connection Pool Configuration Table Click the <i>Lock & Edit</i> button in the Change Center to activate all the buttons on this page.	outbound connection pool groups. Groups are listed by pool instance within an outbound connection pool group. Click									
Resource Groups	New Delete	Showing 1 to 1 of 1 Previous Next									
	Groups and Instances 🗞 Connection Factory Interface										
Virtual Targets	□ oracle.tip.adapter.jms.IJmsConnectionFactory oracle.tip.adapter.jms.IJmsConnectionFactory	tionFactory									
Concurrent Templates	eis/wls/OUNCQueue oracle.tip.adapter.jms.1JmsConnec	tionFactory									
Resource Management	eis/wls/OUNCTopic oracle.tip.adapter.jms.IJmsConnec	tionFactory									
How do I 😑	New Delete	Showing 1 to 1 of 1 Previous Next									
Configure outbound connection pool properties											

4 Click on the eis/wls/OUNCTopic to ensure the appropriate property name and values are assigned to it.

	Admini	stration Console 12c			<u> </u>				
Change Center	1	🏦 Home Log Out Preferences 🔤 Record Help	Q		Welcome, weblogic Connected to: soa_domain				
View changes and restarts		Home >Summary of JMS Modules >OUNCJMSModule >S	ummary of Deployments > JmsAdapte	r_OUNC					
Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit Release Configuration	Si I	ettings for oracle.tip.adapter.jms.tJmsConnec General Properties Transaction Authentic This page allows you to view and modify the config	tionFactory	ng I connection pool. Properties you modify here are saved to a deple	syment plan.				
Domain Structure		Outhound Connection Properties							
soa_domain 수 B - Domain Partitions 다 - Environment		Outbound Connection Properties Click the Lock & Edit button in the Change Center to activate all the buttons on this page.							
Servers		Save Showing 1 to 7 of 7 Previous N							
Clusters Coherence Clusters		Property Name 💫	Property Type	Property Value	Supports Dynamic Updates				
Resource Groups Resource Group Templates		AcknowledgeMode	java.lang.String	AUTO_ACKNOWLEDGE	false				
Machines		ConnectionFactoryLocation	java.lang.String	weblogic.jms.XAConnectionFactory	false				
Virtual Hosts		FactoryProperties	java.lang.String	ClientID=ouncClientID	false				
Work Managers		IsTopic	java.lang.Boolean	true	false				
Concurrent Templates		IsTransacted	java.lang.Boolean	false	false				
1 TriResource Management	5.11	Password	java.lang.String		false				
How do I	3	Username	java.lang.String		false				
Configure outbound connection pool properties		Save			Showing 1 to 7 of 7 Previous Next				
C 1 C 1									

- 5 Ensure that the ClientId=ouncClientId is associated in the Outbound Connection pool FactoryProperties.
- 6 Go back to the OutboundConnections Listed page and select eis/wls/OUNC and verify all the properties depicted.

Database Outbound Connection Pool

- 1 Ensure that following connection instances are created on the server:
 - eis/DB/OUNCErrorHandling: ErrorHandling connection instance.
 - eis/DB/OUNC: Notification connection instance.
 - eis/DB/OUNCNMS : NMS Connection Instance.
- 2 On the Left Pane, select the **Deployments**, click on the **DBAdapter**, select the **Configuration** tab and select the **Outbound Connection Pools** tab.
- 3 Expand javax.resource.cci.ConnectionFactory.

	Administration Console	0			
Change Center	Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: soa_domai			
View changes and restarts	Home >Summary of JDBC Data Sources >OUNCDS >Summary of Deployments >DbAdapter				
Configuration editing is enabled. Future	Settings for DbAdapter				
changes will automatically be activated as you modify, add or delete items in this domain.	Overview Deployment Plan Configuration Security Targets Control Testing Monitoring Notes				
Domain Structure	General Properties Outbound Connection Pools Admin Objects Workload Instrumentation				
Get_Gondan ← Environment ← Deployments ⊕ Services ⊕ -Services ⊕ -Interoperability ⊕ -Diagnostics	This page displays a table of Outbound Connection Pool groups and instances for this resource adapter. The top level entries in the table represent Outbound Connection Pool groups. Groups are listed by connection factory interface and the instances are listed by their JNDI names. Expand a group to obtain configuration information for a Connection Pool instance within an Outbound Connection Pool group. Click the name of a group or instance to configuration Table Outbound Connection Pool Configuration Table New Delete				
	Connection Factory Interface				
	□ javax.resource.cci.ConnectionFactory javax.resource.cci.ConnectionFactory	Jry			
	eis/DB/CCB2-MDM2ErrorHandling javax.resource.cci.ConnectionFact	bry			
How do I 🗉	eis/DB/CSSNMS javax.resource.cci.ConnectionFact	bry			
Configure outbound connection pool properties	eis/DB/OUCSSErrorHandling javax.resource.cci.ConnectionFact	bry			
	eis/DB/OUNC javax.resource.cci.ConnectionFact	pry			
	eis/DB/OUNCErrorHandling javax.resource.cci.ConnectionFact	pry			
System Status	eis/DB/OUNCNMS javax.resource.cci.ConnectionFact	pry			
Health of Running Servers	eis/DB/SOADemo javax.resource.cci.ConnectionFacto	ory			
Failed (0)	eis/DB/SOADemoLocalTx javax.resource.cci.ConnectionFact	pry			
Critical (0) Cverloaded (0) Warning (0)	New Delete	Showing 1 to 1 of 1 Previous Next			

4 Verify that each database outbound connection instance is pointed to the correct database as shown in the following image (shown as **eis/DB/OUNC**, with the data source **jdbc/OUNCDS**).

ORACLE WebLogic Server® Administration Console

Change Center	The Home Log Out Preferences A Record Help	<u> </u>		Welcome, weblogic Connected to: soa_domain	
View changes and restarts	Home >Summary of Deployments >JmsAdapter >Summary of JDBC Data Sources >OUNCDS >Summary of Deployments >DbAdapter				
Configuration editing is enabled. Future	Settings for javax.resource.cci.ConnectionFactory				
changes will automatically be activated as you modify, add or delete items in this domain.	General Properties Transaction Authentic	tion Connection Pool Logging			
Domain Structure					
soa_domain	This page allows you to view and modify the configuration properties of this outbound connection pool. Properties you modify here are saved to a deployment plan.				
Environment	Outhound Connection Properties				
Deployments	on a second connection repetites				
-Messaging	Save	Save Showing 1 to 8 of 8 Previous Next			
Persistent Stores	Property Name 🗞	Property Type	Property Value		
Foreign JNDI Providers	dataSourceName	java.lang.String			
XML Registries	defaultNChar	java.lang.Boolean	false		
	platformClassName	java.lang.String	org.eclipse.persistence.platform.database.Oracle10Platform		
Mail Sessions	sequencePreallocationSize	java.lang.Integer	1		
L E-File T3	usesBatchWriting	java.lang.Boolean	true		
How do I	usesNativeSequencing	java.lang.Boolean	true		
Configure outbound connection pool properties	usesSkipLocking	java.lang.Boolean	true		
	xADataSourceName	java.lang.String	jdbc/OUNCDS		
System Status	Save			Showing 1 to 8 of 8 Previous Next	
Health of Running Servers					
Failed (0)					
Critical (0)					
Overloaded (0)					
Warning (0)					
OK (2)					

5 Verify all other Outbound Connection instances.

Outbound Connection Name	Property Name	Property value
eis/DB/OUNC	xaDataSourceName	jdbc/OUNCDS
eis/DB/OUNCEHDS	dataSourceName	jdbc/OUNCEHDS
eis/DB/OUNCNMS	xaDataSourceName	jdbc/OUNCNMSDS

0
Verification of the Database Objects

- 1 Open any database connection application such as SQL Developer or SQL *Plus.
- 2 Connect to the database mentioned in OUNCDS.
- 3 Execute the following SQL command (where XXXX can be any one of the object types in the table below)...

```
SELECT count(*) FROM user_objects WHERE object_type='XXXX' AND status='VALID' AND
object_name LIKE 'NC_%'
```

Example:

SELECT count(*) FROM user_objects WHERE object_type='TABLE' AND status='VALID' AND
object_name LIKE 'NC_%'

- 4 It should give a result or output of 17; ensure that the count for all other entities matches the result.
- **5** The count should be either equal to or greater than the values in the following table.

OBJECT TYPE	COUNT
PACKAGE	1
SEQUENCE	3
INDEX	15
VIEW	6
TABLE	19

- 6 Make sure the values of the following sequences are correct:
 - nc_notification_seq

This sequence is used to populate the NOTIF_ID for NC_NOTIFICATION table

• nc_user_notif_pref_seq

This sequence is used to populate the USER_NOTIF_PREF_ID for NC_USER_NOTIF_PREF table

nc_user_delivery_opt_seq

This sequence is used to populate the USER_DELIVERY_OPT_ID for NC_USER_DELIVERY_OPT table

Note:

On install, the sql that creates the sequences are located in <PRODUCT_HOME>/Install/DB/sequence folder On new install, the start sequence is defaulted to 1.

During upgrade or when reinstalling the Notification Module make sure the starting value of the sequences are correct. Check the last number of the sequences before reinstalling or upgrading. Make the last number + 1 be the start sequence.

Verify the Composites in the Enterprise Manager

Verify that the OUNC partition was created with all the composites deployed:

- 1 Log in to Enterprise Manager.
- 2 Expand the Farm_soa_domain > soa > soa-infra>OUNC partition.
- 3 Verify that these 21 composites are deployed and in active state:
 - OUNCReceiveAuditMessage
 - OUNCEmailConnector

- OUNCDeliverDeferred
- PurgeIntegrationErrorStore
- OUNCProcessAuditMessage
- OUNCPersistNotification
- CCBOUNCNotificationInbound
- CCBOUNCNotificationHistory
- OUNCRouteNotification
- OUNCWXNotificationPreferences
- OUNCSendOptInMessage
- OUNCWXGetNotifications
- OUNCNMSNotificationInbound
- ErrorProcessingDetail
- OUNCWXDeliveryChannels
- OUNCNotificationInbound
- OUNCSmppConnector
- ErrorHandlingHumanIntervention
- UpdateIntegrationErrorLookupTable
- ErrorProcessingMaster
- ErrorHandling

DRACLE Enterprise Manager Fusion Middleware Control 12c	🔚 WebLogic Domain 🔻 🚦	SOA Infrastructure 🔹 weblo	gic 🔻 🚥
		Jul 28, 2016 9:39:	09 AM PDT 🔧
Dashobard Deployed Composites How Instances Error Hospital		P Palate	d Links -
		& Relate	u Links 🖤
"artitions are logical groupings of composites to help you manage large deployments. The following SUA composite revisions	are deployed in this partition. Search Search Co	mposite (full or partial name)	Q
		Composite Revision	is Found 21
OUNCEmailConnector [1:0]	Active	Status	De du ^
ErrorProcessingDetail [1.0]	Active	0 0	Ju
OUNCNotificationInbound [1.0]	Active	ି ଜ	Ju
ErrorHandling [1.0]	Active	Û	Ju
OUNCWXGetNotifications [1.0]	Active	û	Ju
UpdateIntegrationErrorLookupTable [1.0]	Active	û	Ju
OUNCPersistNotification [1.0]	Active	Û	Ju
OUNCReceiveAuditMessage [1.0]	Active	Û	Ju
PurgeIntegrationErrorStore [1.0]	Active	Û	Ju
• ErrorHandlingHumanIntervention [1.0]	Active	Ŷ	Ju
• OUNCSmppConnector [1.0]	Active	Û	Ju
4		^	

Verify Security Credentials from EM

Follow these steps to verify security for connecting to Oracle Utilities Meter Data Management (MDM) and Oracle Utilities Customer Care and Billing (CCB) from SOA11g middleware:

- 1 Log in to the Enterprise Manager.
- 2 Expand the WebLogic Domain and select the **soa_domain** > **Security** > **Credentials**.
- 3 Ensure that the following entry is present in the list: OU_CCB_01 and OU_MDM2_02 are present

Verify Attached Policies from EM

- 1 Follow the below steps to verify the policies attached to the web services that each BPEL process is using:
- 2 Login to the Enterprise Manager
- **3** Expand SOA > OUNC partition
- 4 Choose any composite in there and select the policies and should be able to see the policy attached.

Note: Please refer to Appendix I for more information on Security Policies.

Uninstalling the OUNC Flows

- 1 Set the environment variables as described in Step 3-A in the "Installing the Integration" topic earlier in this chapter.
- 2 Execute the following command to go to the PRODUCT_HOME:

On UNIX/Linux:

cd \$PRODUCT_HOME/bin

On Windows:

cd %PRODUCT_HOME%/bin

3 Execute the following command to complete the BPEL Flows integration uninstallation.

On UNIX/Linux:

```
cd $PRODUCT_HOME/bin
```

```
ant -f UnInstallBuild.xml uninstallSOA -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee ouncUninstallSOA.log
```

On Windows:

```
cd %PRODUCT_HOME%/bin
```

ant -f UnInstallBuild.xml uninstallSOA DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l ouncUninstallSOA.log

4 Execute the following command to complete the uninstallation of Java resources like JMS Servers, JMS Modules, JMS Queues, Datasources.

On UNIX/Linux:

cd \$PRODUCT_HOME/bin

```
ant -f UnInstallBuild.xml uninstallWL -
DInstallProperties.xml | tee ouncUninstallWL.log
```

On Windows:

cd %PRODUCT_HOME%/bin

```
ant -f UnInstallBuild.xml uninstallWL -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l ouncUninstallWL.log
```

5 Execute the following command to complete the DB uninstallation

On UNIX/Linux:

cd \$PRODUCT_HOME/bin

```
ant -f UnInstallBuild.xml uninstallDB -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee ouncUninstallDB.log
```

On Windows:

cd %PRODUCT HOME%/bin

```
ant -f UnInstallBuild.xml uninstallDB -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l ouncUninstallWL.log
```

Note: After running the above command, verify that the installation log does not contain any errors and the uninstall is successful.

Installing CCB-NMS Integrated Flows

If CCB owns the notification preferences and delivery channels, CCB will be the single source of notifications for Notification Center. CCB communicates any notification preference to NMS, and NMS sends notifications for the notification preferences set to CCB through the BPEL flows for Notification. These BPEL integration flows are part of the Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 12.1.1 Media Pack, which also includes the CCB-NMS integrated flow used in Notification (which also needs to be installed for this functionality).

Note: These flows do not communicate with OUCSS directly.

This section covers software requirements and installation verification steps.

Software Requirements

The Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 12.1.1 Media Pack with the latest patches must be installed and running on the server.

Make sure the following patches are installed:

• Patch 23333992 - CCB - NMS FLOWS FOR NOTIFICATIONS

Note: This integration does not require installation of the AIA Foundation Pack.

Verify CCB-NMS Flows

Once Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Network Management System Release 12.1.1 Media Pack is installed and running on the server, verify the following:

Verify that CCB-NMS Integrated flows used for Notification are in the Enterprise Manager

- 1 Log in to Enterprise Manager.
- 2 Expand the Farm_soa_domain>soa>soa-infra>CCB-NMS partition.

- **3** Verify that following three composites are deployed:
 - OUNMSNotificationInboundEBF
 - OUCCBOUNMSNotifyPreferenceEBF
 - OUCCBCreateNotificationEBF

ORACLE [®] Ent	terprise	Manager Fusion Middleware Control 12c	👬 SOA Infrastructure 🔻 🦷 weblogic 💌 📼
CCB-NMS I SOA Partition Dashboard Deployed Col	mposites	Flow Instances Error Hospital	Aug 3, 2016 9:13:22 AM PDT 🔦
Composites Control 💌	Deploy	vment 💌	🔗 Related Links 💌

Partitions are logical groupings of composites to help you manage large deployments. The following SOA composite revisions are deployed in this partition.

Search Search Composite (full or partial name) 🔍

Composite Revisions Found 14

Composite	Mode	Status	
 OUNMSNotificationInboundEBF [1.0] 	Active	٢	^
ErrorHandlingHumanIntervention [1.0]	Active	û	
OUCCBOUNMSPlannedOutagesQueryEBF [1.0]	Active	Ŷ	
ErrorProcessingMaster [1.0]	Active	Ŷ	
OUCCBOUNMSTroubleCallsQueryEBF [1.0]	Active	Ŷ	_
OUCCBOUNMSNotifyPreferenceEBF [1.0]	Active	Ŷ	-
OUCCBCreateNotificationEBF [1.0]	Active	Ŷ	-
< III			P

Verify JMS Queues

Verify that the JMS queues for CCB-NMS Integration flows for Notification are present

- OUNMSNotificationRequest
- OUNMSNotificationRequestError

	Name 🔅	Туре	JNDI Name	Subdeployment	Targets
	CCBNMSCF	Connection Factory	jms/CCB-NMS/CCBNMSCF	CCBNMSFileSubDeployment	CCBNMSFJS
	OUCCBCustomerDataSyncRequest	Uniform Distributed Queue	jms/CCB-NM5/OUCCBCustomerDataSyncRequest	CCBNMSFileSubDeployment	CCBNMSFJS
	OUCCBCustomerDataSyncRequestError	Uniform Distributed Queue	jms/CCB-NM5/OUCCBCustomerDataSyncRequestError	CCBNMSFileSubDeployment	CCBNMSFJS
	OUCCBCustomerDataSyncResponse	Uniform Distributed Queue	jms/CCB-NM5/OUCCBCustomerDataSyncResponse	CCBNMSFileSubDeployment	CCBNMSFJS
	OUCCBCustomerDataSyncResponseError	Uniform Distributed Queue	jms/CCB-NM5/OUCCBCustomerDataSyncResponseError	CCBNMSFileSubDeployment	CCBNMSFJS
	OUNMSNotificationRequest	Uniform Distributed Queue	jms/CCB-NM5/OUNM5NotificationRequest	CCBNMSFileSubDeployment	CCBNMSFJS
	OUNMSNotificationRequestError	Uniform Distributed Queue	jms/CCB-NMS/OUNMSNotificationRequestError	CCBNMSFileSubDeployment	CCBNMSFJS
Nev	v Delete			Showing 1 to 7 of 7	Previous Next

Uninstalling OUCSS

UnInstall OUCSS Portal

The following procedure describes how to uninstall the default OUCSS Portal installation.

Notes:

- Before running the uninstall scripts, ensure that AdminServer and WC_Portal is up and running.
- If uninstalling all the artifacts the ensure that if the OUCSSInboundServices is targeted on the same managed server as that of the OUCSSPortal ear then it is highly recommended to uninstall the InboundServices prior to the uninstalling OUCSS Portal.
- 1 Perform Steps 3–6 as described in the Installing OUCSS Portal section of this document to set up the environment.
- 2 Run the following command to uninstall the following OUCSS artifacts:
 - OUCSS Mail Session
 - OUCSS Shared lib and extend.oucss.portal (11.1.1, 11.1.1.9.0), used to extend OUCSS Portal.
 - OUCSSPortal (v2.2.0.0) Enterprise application and associated MDS Partition.

On Windows:

```
ant -f UnInstallBuild.xml uninstallOUCSS -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l unInstallPortal.log
```

On UNIX/Linux:

```
ant -f UnInstallBuild.xml uninstallOUCSS -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml | tee unInstallPortal.log
```

Note: After running the command check UnInstallPortal.log for any build errors. If "BUILD SUCCESSFUL" does not appear at the end of the file, fix any errors listed in the log and rerun the UnInstallPortal command.

3 Run the following command to drop OUCSS Schema and Data Source

On Windows:

```
ant -f UnInstallBuild.xml DBUnInstallPortal -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l DBUnInstallPortal.log
```

On UNIX/Linux:

```
ant -f UnInstallBuild.xml DBUnInstallPortal -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml -l DBUnInstallPortal.log
```

Note: After running the command check DBUnInstallPortal.log for any build errors. If "BUILD SUCCESSFUL" does not appear at the end of the file, fix any errors listed in the log and rerun the DBUnInstallPortal command.

4 Run the following command to restart the Portal managed servers.

On Windows:

```
ant -f InstallBuild.xml RestartManagedServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l
RestartServerOnUnInstall.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml RestartManagedServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l
RestartServerOnUnInstall.log
```

- 5 Remove Users and Groups from the WebLogic Admin Console manually.
- 6 Verification of a successful uninstall:

Note: Data Source, Mail Session and Shared libraries will be deleted if no other managed server is a target. If there is another managed server set as target, then the script removes the managed server used by Portal Application from the target.

- A Log in to the WebLogic console as wlsadminuser/wlsadminpasswd.
- **B** Choose portal_domain > Deployments and verify that the following are either no longer listed or the target should be removed from the managed server:
 - o com.oracle.ugbu.ss.lib (2.2, 12.2.1.0.0)
 - o com.oracle.ugbu.ss.residential.lib(2.2, 12.2.1.0.0)
 - o com.oracle.ugbu.ss.commercial.lib(2.2, 12.2.1.0.0)
 - extend.oucss.portal (2.2,2.2.0.0.0)
 - extend.spaces.webapp(2.0,12.2.1.0.1)
- 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** Finally, verify that OUCSS DB User is dropped from the database.

Uninstall OUCSS Inbound Services

The following procedures describe how to uninstall the OUCSS Inbound Services installation when the OUCSS Portal is still installed as well as when the OUCSS Portal is already uninstalled.

The following procedure describes how to uninstall OUCSS Inbound Services when OUCSS Portal is already unInstalled or if OUCSS Portal is deployed on a separate managed server.

- 1 Perform Steps 3-6 in the Installing OUCSS Portal procedure to set up the environment.
- 2 Verify the /oucssInstall/oucssApplication/oucssInbound/deploy flag in InstallProperties.xml is set to *true*.
- **3** Run the following command to uninstall the following OUCSS artifacts:
 - *OUCSS_Extension.war, OUCSS_Commercial_Extension.war, extend.oucss.portal.war* and OUCSS_Rest_Extension.war as shared libraries.
 - OUCSS Mail Session
 - OUCSSInboundServices (v2.2.0.0) Enterprise application and associated MDS Partition.

On Windows:

```
ant -f UnInstallBuild.xml UnInstallInboundService -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l
UnInstallInboundService.log
```

On UNIX/Linux:

```
ant -f UnInstallBuild.xml UnInstallInboundService -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee
UnInstallInboundService.log
```

Note: After running the command check UnInstallInboundService.log for any build errors. If "BUILD SUCCESSFUL" does not appear at the end of the file, fix any errors listed in the log and rerun the UnInstallInboundService command.

4 Verification of a successful uninstall:

Note: Data Source, Mail Session and Shared libraries will NOT be deleted; the script undeploys OUCSS Inbound Application and only the shared libraries that are particularly used for this application.

- A Log in to the WebLogic console as WLS Admin.
- **B** Goto **Deployments** and verify that the following are no longer listed:
 - o com.oracle.ugbu.ss.lib (2.2, 12.2.1.0.0)
 - o com.oracle.ugbu.ss.residential.lib(2.2, 12.2.1.0.0)
 - o com.oracle.ugbu.ss.commercial.lib(2.2, 12.2.1.0.0)
 - o com.oracle.ugbu.ss.rest.lib (2.2, 2.2.0.0.0)
 - o jax-rs(2.0,2.21.1.0)
 - OUCSSInboundServices (v2.2.0.0) (enterprise application)
- **C** Choose **Services** > **Data Sources** and verify that the **OUCSSDS** data source is no longer present or no more targeted to the managed server where the OUCSSInboundServices application is deployed.
- D Choose Services > Mail Sessions. Verify that the OUCSS mail session is no longer present.

Upgrading OUCSS

This procedure describes the steps to upgrade from previous version of OUCSS Portal (2.0.1, 2.1.0, 2.1.0.1, 2.1.0.2) to version 2.2.0.0.

Pre-Upgrade Steps

- 1 Take a backup of existing OUCSS DB schema.
- 2 Export MDS metadata of the existing OUCSS Portal.
 - Login to Oracle Enterprise Manager (EM) of existing instance and click on OUCSSPortal.
 - From the Application Deployment menu, click on MDS Configuration.

Application Deployment	 2		
ADF Security MDS Configuration TopLink Sessions System MBean Browser WebLogic Server Administration Console General Information Entry Points b Madutes	EJBS Beans in Use Bean Accesses (per minute) Bean Access Successes (%) Bean Transaction Commits (per minute) Bean Transaction Rollbacks (per minute) Bean Transaction Timeouts (per minute) Bean Transaction Commits (%)	0 0.00 0.00 0.00 0.00 0.00 0.00	
	UCSSPortal(v2.1.0) ppication Deployment control cogs verformance Summary ppication Deployment veb Services VebCenter Portal LDF Security DS Configuration copLink Sessions system MBean Browser VebLogic Server Administration Console General Information Entry Points b Modules	UCSSPortal(v2.1.0) ppication Deployment control ogs erformance Summary ppication Deployment veb Services VebCenter Portal DF Security EJBs Beans in Use Bean Access successes (%) Bean Transaction Commits (per minute) Bean Transaction Commits (per minute) Bean Transaction Commits (per minute) Bean Transaction Commits (%) Entry Points b Modules	

• Check the Exclude base documents checkbox and click on Export. Save the file.

ORACLE Enterprise Manager 11g Fusion	Middleware Control Set	up + Help + Log Out
📑 Farm 👻 👗 Topology		
≡ -	OUCSSPortal(v2.1.0) Logged in as weblogic(Host	
🗸 🃑 Farm_portal_domain	Application Deployment - Page Refreshed Apr 10	, 2014 5:07:16 PM PDT 🕻
V 🚞 Application Deployments		
Internal Applications	MDS Contiguration @	
oracle.ugbu.ss.mobile.browser_2.1.0(v2.1.0) (O	Target Metadata Repository	
OUCSSInboundServices (WC_CustomPortal)	Repository mds-CustomPortaIDS	
WebLogic Domain	Type Database	
WebLogic Domain	Partition OUCSSPortal	
P i Metauata Repositories	✓ Export	
	Export a versioned stripe of metadata documents from a metadata repository partition to a file system directory or archive. Only the tip version will be exported for a file repository	Export
	Export metadata documents to an archive on the machine where this application is running.	
	exouted as the relation of the	
	V Exclude base documents	
	✓ Import	
	Import metadata documents from a file system directory or archive to a metadata repository partition. If the target metadata repository is a database repository, the documents will be imported as new tip	1 Import
	versions.	
	 Import metadata documents from an archive on the machine where this web browser is running. 	
	Browse. No file selected.	
	Import metadata documents from a directory or archive on the machine where this application is running.	
	v purge	
	Parge the version inscorp of unablead documents from the Application's repository partition that are oper than the selected time period. The up version of a document without be purged even in its not ablead.	Purge
	Purne all unlabeled nact versions offer than to Davis	
	Advanced Configuration	
	Configuration MBean Browser	
	Runtime MBean Browser	

- **3** As the WebCenter Portal is upgraded from 11g to 12c with OUCSS 2.2.0.0, the folder structure of exported archive from previous step needs to be modified. Un-archive the exported file and search for the folder(s) 'site\site'. Modify the folder hierarchy to 'site\webcenter' and archive it back.
- 4 Export existing Portal Resources (Page Templates, Navigation Models, Resource Catalogs, etc.). Refer to the OUCSS whitepaper, "Customizing and Extending the OUCSS Custom Portal" for instructions on how to export and import portal resources.
- **5** Back up the latest version of extend.oucss.portal.war.
- 6 Shut down the managed servers listed in the Target section of the OUCSSDS Data Source.

7 Download the OUCSS 2.2.0.0 package. Set up the environment as described insteps 1–7 in the "Installing OUCSS Portal" section of this document.

Upgrade Steps

- Upgrade OUCSS DB Schema to version 2.2.0.0.
- Install OUCSS Portal v2.2.0.0 on a new 11.1.1.8.0 WebCenter Domain.
- <u>Install extend.oucss.portal.war</u> to 2.2.0.0 instance. This step is application if extend.oucss.portal.war was deployed with custom code in existing instance.
- Import MDS Customizations.
- Import Portal Resources.
- Migrate Identity Store/LDAP users from previous domain to 2.2.0.0 domain. If you configured the 2.2.0.0 domain to use same LDAP as before, then no action is needed.

Upgrade the OUCSS DB Schema

- 1 Verify that the value of /oucssInstall/oucssPortal/database/installedVersion property in InstallProperties.xml reflects the version of the OUCSS Portal that you currently running. For example, if you currently have OUCSS 2.1.0 installed, set this property to value 2.1.0.
- 2 Run the following command to upgrade OUCSS schema to version 2.2.0.0:

On Windows:

```
ant -f UpgradeInstallBuild.xml DBUpgradePortal -
DInstallProperties=%PRODUCT HOME%/config/InstallProperties.xml -l DBUpgradePortal.log
```

On UNIX/Linux:

```
ant -f UpgradeInstallBuild.xml DBUpgradePortal -
DInstallProperties=$PRODUCT HOME/config/InstallProperties.xml -l DBUpgradePortal.log
```

Note: After running the command check DBUpgradePortal.log for any errors. If "BUILD SUCCESSFUL" does not appear at the end of the file, fix any errors listed in the log before proceeding.

- 3 Verify the schema using the steps described in <u>Verify Schema Table</u> section.
- 4 Verify that all the users in SS_USER table and users access to accounts in SS_USER_LOB_ACCESS_ROLE table are accurate.

Install OUCSS Portal v2.2.0.0

- 1 Verify that the /oucssInstall/oucssPortal/database/createDB property is set to false in InstallProperties.xml to disable creation of a new OUCSS DB Schema.
- 2 Verify that the /oucssInstall/oucssPortal/database properties in InstallProperties.xml are configured to use the upgraded DB schema details.
- 3 Install OUCSS Portal v2.2.0.2 by 0following the Install Steps section of this document.

Install extend.oucss.portal.war

The extend.oucss.portal.war with custom implementation is required to be reinstalled to the new OUCSS 2.2.0.0 instance. The default implementation version of extend.ocuss.portal shared library in 2.2.0.0 is updated to 11.1.1.9.0. To activate the custom extend.oucss.portal.war, the implementation version should be updated to 11.1.1.9.1.

- 1 Open the extend.oucss.portal project in JDev.
- **2** Update the implementation-version in MANIFEST.MF to 11.1.1.9.1.
- **3** Change the common library path to the libraries provided with v2.2.0.0.
- 4 Install the extend.oucss.portal shared library to managed server running OUCSS Portal v2.2.0.0.
- **5** Source control extend.oucss.portal.war and the changes.

Import MDS Customizations

Import the MDS customization exported from the previous install.

1 Login to EM of 2.2.0.0 domain and click on WebCenter Portal.

ORACLE Enterprise Manager Fusion Mic	ddleware Control 12c
Target Navigation	
Application Deployments MetLogic Domain Kiportal_domain AdminServer WC_Inbound	MDS Repository Partition webcenter
WC_Portal WC_Portal WC_Conterne Wetadata Repositivies Wetadata	vetadata repository partition to a file system directory or archive. Only the tip version will be exported for a file repository hine where this web browser is running. n the machine where this application is running.
	archive to a metadata repository partition. If the target metadata repository is a database repository, the documents will be imported as new tip versions. achine where this web browser is running.

2 Select MDS Configuration from Application Deployments menu.

	WebCenter Portal () WebCenter Portal 🗸											
/	Home										0	A Recent CPU and Memory U
	Monitoring	•								100.0%		1.2
	Control	3 AM	04	05	06	07	08	09	10			0.8
	Loas	ber 13, 2016								99.0%		
	Application Export	3 AM	04	05	06	07	08	09	10			0.4
	Application Export	10er 13, 2016										0.0
	Application Import	3 AM	04	05	06	07	08	09	10			
	Register Producer	ber 13, 2016										
	Settings	► 3 AM	04	05	06	07	08	09	10			
	ADF	ber 13, 2016										October 13 2016
	Security	•										
	MDS Configurațion											
	System MBean Browser										0	Security Metrics
	-,	_								100.0%		Metric
	rarget Sitemap	3 AM	04	05	06	07	08	09	10			LDAP Cache Hit Ratio (%)
	Target Information											Average LDAP Lookup Time (ms)
esp	onse and Load										0	Most Active Portals (last 24
500												
200								~				
100												
0											2	

3 Browse the MDS archive that was previously exported. Click on Import to import the metadata.

ORACLE Enterprise Manager Fusion Middleware Control 12c	····
WebCenter Portal WebCenter Portal WebCenter Portal	1a - ⊠ - ℃
MDS Configuration	
Target Metadata Repository	
Repository mds-SpacesDS Type Database MDS Repository Partition webcenter	
✓ Export	
Export a versioned stripe of metadata documents from a metadata repository partition to a file system directory or archive. Only the tip version will be exported for a file repository Export metadata documents to an archive on the machine where this application is running. Export metadata documents to a directory or archive on the machine where this application is running. 	<u>↑</u> , Export
Exclude base documents	
A Import	
Import metadata documents from a file system directory or archive to a metadata reposition. If the Annuel metadata repository is a database repository, the documents will be imported as new tip versions. import metadata documents from an archive on the machine where this web browser is running. import metadata documents from a directory or archive on the machine where this application is running. import metadata documents from a directory or archive on the machine where this application is running.	🛃 Import

4 On successful import, MDS customizations related to OUCSS Protal and OUCSS Taskflows will be migrated to new instance.

Import Portal Resources

As 2.1.0.2 portal instance was built on WebCenter 11g, and 2.2.0.0 portal instance is built on WebCenter 12c - there is no direct migration path exists between these two versions of portal resources (e.g. Page Template, Resource Catalog, Skin and Navigational Model). We may take following approaches for migrating individual portal resource.

Page Template

- 1 Identify the page template that needs to be moved from 2.1.0.2 to 2.2.0.0. Once identified, view source code of the page template by selecting the row followed by Edit Source under Actions menu.
- 2 Navigate to Administration of WebCenter Portal 12c and create a new page template under Assets.
- **3** Select Edit Source from Actions menu.
- **4** Copy the source from 2.1.0.2 to 2.2.0.0 and save the change.
- **5** Available flag should be checked for this new page template.

6 Refer to the OUCSS whitepaper, "Customizing and Extending the OUCSS Custom Portal" for instructions on how to choose this new page template as default.

Resource Catalog

- 1 Identify the resource catalog that needs to be moved from 2.1.0.2 to 2.2.0.0. Once identified, view source code of the resource catalog by selecting the row followed by Edit Source under Actions menu.
- 2 Navigate to Administration of WebCenter Portal 12c and create a new resource catalog under Assets.
- **3** Select Edit Source from Actions menu.
- 4 Copy the source from 2.1.0.2 to 2.2.0.0 and save the change.
- **5** Make sure proper resource bundle has been used in the copied source code.
- 6 Available flag should be checked for this new resource catalog.
- 7 Refer to the OUCSS whitepaper, "Customizing and Extending the OUCSS Custom Portal" for instructions on how to choose this new resource catalog as default.

<u>Skins</u>

- 1 Identify the skin that needs to be moved from 2.1.0.2 to 2.2.0.0. Once identified, view source code of the skin by selecting the row followed by Edit Source under Actions menu
- 2 Navigate to Administration of WebCenter Portal 12c and create a new skin under Assets.
- **3** Select Edit Source from Actions menu.
- **4** Copy the source from 2.1.0.2 to 2.2.0.0 and save the change.
- **5** Available flag should be checked for this new skin.
- 6 Refer to the OUCSS whitepaper, "Customizing and Extending the OUCSS Custom Portal" for instructions on how to choose this new skin as default.

Navigations

- 1 Defining Navigation for WebCenter Portal 12c is very different than how it is defined in WebCenter Portal 11g. WebCenter Portal 12c no longer includes navigation as part of Assets. To replicate navigation from 11g to 12c follow the steps below.
- 2 Identify the navigation in 11g which needs to be replicated to 12c. Select the navigation and click Edit.

- 3 Navigate to Administration of WebCenter Portal 12c and select Pages from the left-hand menu.
- 4 Create one page at a time following the same navigational site map identified in step 2.
- **5** Create Folder to define category and Page to hold taskflows by selecting right-arrow followed by Add.
- 6 Once completed, go to Drafts from the left-hand menu and publish the newly created pages.

Upgrading CSS BPEL Flows

This procedure describes the different methods for upgrading CSS BPEL flows from previous versions.

The customer can do one of the following:

- Uninstall Previous Version and Install the New Version.
- Install the New Version in a Different SOA/MDS Partition.

Uninstall a Previous Version and Install a New Version

Pre-Upgrade Steps

- 1 Take a backup of the existing version of the CSS BPEL flows:
 - Backup the existing PRODUCT_HOME directories.

Example: PRODUCT_HOME=/slot/oracle/ OUCSS_INTGFLOWS where you unzipped OUCSS_INTGFLOWS.zip

- Make sure the existing configuration properties file is backup.
- 2 If upgrading from OUCSS 2.1.0 version to a higher version and the optional OUCSS-OUCCB BPEL Flows were installed previously, rollback patch 17632298.

- In OUCSS version 2.1.0, patch 17632298 had to be applied if the Optional OUCSS-OUCCB BPEL Flows were required. To rollback the patch, follow the steps in the readme.txt of patch 17632298.
- **3** Uninstall the existing version of CSS BPEL flows. Refer to <u>Installing CSS BPEL flows –Uninstalling Direct Integration</u> for details.

Upgrade Steps

• Install the latest version of the CSS BPEL flows.See Installing CSS BPEL Flows for details.

Install the New Version in a Different SOA/MDS Partition

To keep the existing version of the CSS BPEL flows, the new version can be installed in a different SOA and MDS partition name. The SOA and MDS partition names can be define in the Install Properties file during installation.

Pre-Upgrade Steps

• Take a backup of the existing version of the CSS BPEL flows by backing up the existing PRODUCT_HOME directories.

Example: PRODUCT_HOME=/slot/oracle/ OUCSS_INTGFLOWS (the folder into which you extracted OUCSS_INTGFLOWS.zip).

• Ensure that the existing configuration properties file is backed up.

Upgrade Steps

- Install the latest version of the CSS BPEL flows in a new SOA and MDS partition name. <u>Refer to Chapter 3</u> <u>Instaling CSS BPEL flows</u> for install details.
- The new SOA and MDS partition name should be defined in the Install Properties File. Refer to <u>Appendix E</u>. Look for the following in the InstallationProperties file:

<soapartition></soapartition>

<mdspartition></mdspartition>

Upgrading Oracle Utilities Notification Flows

This procedure describes the steps to upgrade Oracle Utilities Notification (OUNC) Flows from previous versions.

Pre-Upgrade Steps

- 1 Take a backup of the existing version of the OUNC BPEL flows:
 - **A** Backup the existing PRODUCT_HOME directories.

Example: PRODUCT_HOME=/slot/oracle/OUNC where you unzipped OUNC.zip

- **B** Make sure the existing configuration properties file is backed up.
- 2 Uninstall the existing version of OUNC BPEL flows. Refer to <u>Chapter 5 Installing Oracle Utilities Notification Flows –</u> <u>Uninstalling the OUNC Flows section</u> for details. Only uninstall the OUNC BPEL flows using Steps 1, 2 and 3. Do **not** run the DB Uninstall Step 4.

Note: DO NOT run DB uninstallation command, ONLY the BPEL Flows integration uninstallation.

Upgrade Steps

Install the latest version of the OUNC flows.

Refer to <u>Chapter 5 Installing Oracle Utilities Notification Flows - Installing the Integration section</u> for details. **Replace** step 8 for DB Installation with the following:

IMPORTANT: Do **not** execute step 8 mentioned in the installation section for DB Installation. Performing step 8 will wipe out your existing transactional data. Instead, execute the following command to upgrade to the updated DB package:

On UNIX/Linux :

cd \$PRODUCT HOME/bin

```
ant -f InstallBuild.xml createDBNotificationPackage -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l ouncCreateDBPackage.log
```

On Windows:

cd %PRODUCT_HOME%/bin

```
ant -f InstallBuild.xml createDBNotificationPackage -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l ouncCreateDBPackage.log
```

Appendix A

Installing and Configuring Oracle MapViewer

Following section provide information on installing Oracle MapViewer 11.1.1.7.2 to be used with OUCSS Outage Map functionality.

Prerequisite Software for MapViewer

The following software is required to use Oracle MapViewer; you must have the following software:

- 1 A J2EE server supported by MapViewer
- 2 Oracle Database with Spatial or Locator (Release 9*i* or later).
- **3** Oracle Client (Release 9*i* or later), if you need to use JDBC Oracle Call Interface (OCI) features. Note that in general, the JDBC thin driver is recommended for use with MapViewer, in which case the Oracle Client is not required.
- 4 Java SDK 1.6 or later.

Note: MapViewer also supports the headless AWT mechanism in J2SE SDK, which enables MapViewer to run on Linux or UNIX systems without setting any X11 DISPLAY variable. To enable AWT headless mode on Linux or UNIX systems, specify the following on the command line to start MapViewer: -Djava.awt.headless=true

Installing on WebLogic (Recommended)

- 1 Download Oracle MapViewer 11.1.1.7.2 EAR from the Oracle Technology Network (OTN) at http://www.oracle.com/technetwork/middleware/mapviewer/downloads/index-100641.html
- 2 Create a Managed Server to install the Oracle MapViewer using WLS Admin Console. We recommend using a separate WebLogic Domain to host the Oracle MapViewer. Oracle MapViewer can also be installed on a managed server in OUCSS domain.

3 Follow the steps to deploy the Oracle MapViewer on WebLogic as described in Chapter 1.4.1 of the MapViewer User Guide (http://docs.oracle.com/cd/E28280_01/web.1111/e10145/vis_start.htm#i1006838).

Verifying Deployment

Test if the MapViewer server has started correctly. Enter the following URL to invoke the MapViewer server with a simple get-version request:

http://<<mapviewerhost>>:<<mapviewerport>>/mapviewer/omserver?getv=t

If MapViewer is running correctly, it should immediately send back a response text string indicating the version and build number, such as the following:

Ver11_1_7_2_B131120

Configuring Map Data

After installing and verifying, MapViewer instance needs to be configured with database to pull map data.

- 1 Download and upload MapViewer data into Oracle Database. This data can be obtained from various vendors.
- 2 Update the following spatial views that MapViewer uses to render maps after setting up the Map data.
 - USER_SDO_MAPS
 - USER_SDO_THEMES
 - USER_SDO_STYLES
 - USER_SDO_CACHED_MAPS
- **3** Configure MapViewer to refer to the above map data source. You can configure MapViewer with one or more data sources.
- **4** To configure a Data Source, login to *http://<<host>>:<<port>>/mapviwer/mvlogon.jsp* with WebLogic domain admin credentials.
- 5 Click on "Configuration" link on the left menu.
- 6 Scroll to the bottom of the Text-Area on the right and add the data source.
- 7 Prefix '!' to the password to allow MapViewer to encode it when the data source is loaded first.
- 8 MapViewer configuration also allows configuring other parameters for fine-tuning. Use the same screen to change the configuration as it suits the requirements.
- **9** After configuring Data and Data Source, use Oracle Map Builder (can be downloaded from OTN), to configure BASE_MAPS, TILES, STYLES, THEMES that are required to render maps.

Creating a Default Theme

For OUCSS Outages to render color regions on the map, a new table and a theme based on this table must be created in the schema configured in MapViewer. A Map Theme can be created depending on the implementation.

This procedure describes the steps to create a sample theme.

- 1 Login to the MapViewer DB Schema using SQL Developer.
- 2 Create the table using the following command

CREATE TABLE OUCSS OUTAGE AREAS

```
(
    AREA VARCHAR2(100) Not Null,
    AREA_TYPE VARCHAR2(20) Not Null,
    GEOMETRY SDO_GEOMETRY NOT NULL,
    CONSTRAINT OUCSS_OUTAGE_AREAS_PK PRIMARY KEY
    (
        AREA
        , AREA_TYPE
    )
      Enable
);
```

3 After the table is created, add the table to USER_SDO_GEOM_METADATA and create the index.

```
INSERT INTO USER_SDO_GEOM_METADATA VALUES
('OUCSS_OUTAGE_AREAS','GEOMETRY',SDO_DIM_ARRAY(SDO_DIM_ELEMENT('X', -
180,180,0.05),SDO DIM ELEMENT('Y',-90,90,0.05)),8307);
```

CREATE INDEX oucss_outage_area_idx ON OUCSS_OUTAGE_AREAS(GEOMETRY) INDEXTYPE IS MDSYS.SPATIAL INDEX;

4 Create the Theme using the OUCSS_OUTAGE_AREAS table. This theme is used OUCSS Map component. For e.g. a sample theme can be created by using following SQL command or using the Map Builder tool.

```
INSERT INTO USER_SDO_THEMES VALUES ('OUCSS_OUTAGE_AREAS', 'Table with OUTAGE area
information','OUCSS_OUTAGE_AREAS','GEOMETRY','<?xml version="1.0" standalone="yes"?>
<styling_rules>
    <rule>
        <features style="NTC_ZIP5"> </features>
        <le>
        <le>
            clabel column="AREA" style="T.ALL_STATE_ABBREVS"> 1 </label>
            </rule>
        </rule>
```

5 Insert geometries for supported areas in OUCSS_OUTAGE_AREAS tables. The areas vary with implementation. For e.g., a sample SQL to insert an area should look like the following:

```
Insert into OUCSS OUTAGE AREAS (AREA, AREA TYPE, GEOMETRY) values
('44626','ZIP CODE', MDSYS.SDO GEOMETRY(2003,8307, null, MDSYS.SDO ELEM INFO ARRAY(1,1003,1)
,MDSYS.SDO ORDINATE ARRAY (-81.3830295488997,40.7285129510814,-
81.3812984991402,40.7338839829249,-81.3927475541338,40.7332639948208,-
81.3994335453435,40.7307579737733,-81.4018495656824,40.7147819334023,-
81.4219826201664,40.7148169644293,-81.4258666120158,40.7079269194969,-
81.4303646324607,40.7076419271028,-81.4318656167639,40.6955949053686,-
81.4511426541633,40.7011539319998,-81.4523066753524,40.677843878596,-
81.4380766585527,40.6739768827821,-81.4392956545512,40.6632778265499,-
81.4398236689867,40.6630638744966,-81.4389236608563,40.6627638545034,-
81.435252639055,40.660163835682,-81.4473096636869,40.653477847022,-
81.4131756222542,40.653068851053,-81.4128046156641,40.6424478311357,-
81.4065065786703,40.6420378029597,-81.4032835659656,40.6393258078457,-
81.3991335999646,40.6387798121286,-81.3953325700587,40.6331857595437,-
81.3809395361275,40.6349047840879,-81.3734705403763,40.6324207828505,-
81.3720835035136,40.6378637887078,-81.3751265528508,40.6526088149928,-
81.3749075224809,40.6526058096461,-81.3573414788679,40.6523898339006,-
81.357125505903,40.6523868286052,-81.3568705148351,40.6523378098387,-
81.3554774682247,40.6522848008732,-81.3551714893461,40.6522738155778,-
81.3545554897249,40.652258840303,-81.3564755123726,40.6601568292659,-
81.3489744910513,40.668516868032,-81.350603459601,40.6703478712984,-
81.3458954756601,40.6744298531464,-81.3400944622676,40.692194872556,
81.3452894692824,40.7049619431687,-81.3256184133173,40.7083269318851,-
81.3099184022803,40.7038868922648,-81.314726389755,40.7124739428984,-
81.3141013702569,40.7259569671867,-81.3378064246284,40.7277349650885,-
81.3479854464389,40.7284649635238,-81.3474874343701,40.7272139471038,-
81.3483784780852,40.7272799620181,-81.3489394486206,40.7255229537069,-
81.3593105035176,40.7281359792679,-81.3663465175681,40.7276139766092,-
81.3830295488997,40.7285129510814)));
```

Configure OUCSS Map Properties

To configure OUCSS Map Properties:

- 1 Log in to the OUCSS Portal application http://<PortalHost>:<PortalPort>/<PortalContextRoot> as WSSAdmin.
- 2 Select Admin > Configuration Options to go to OUCSS System Configuration page.
- **3** Select the Map Viewer property to be changed and edit the property value. Review step 11 of <u>Install OUCSS Portal</u> for more information on System Configuration properties.
- 4 Click Save and restart the managed server.

Note:

Refer the MapViewer User Guide <u>http://docs.oracle.com/cd/E28280_01/web.1111/e10145/toc.htm</u> for additional information about MapViewer and its configuration.

Appendix B

Installation Properties

The following listing shows the structure and sample data contained in InstallProperties.xml for OUCSS Portal Install.

```
<?xml version="1.0" encoding="UTF-8" ?>
<oucssInstall xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
              xsi:schemaLocation="http://ocuss.oracle.com ../xsd/OUCSSInstallProperties.xsd"
              xmlns="http://ocuss.oracle.com">
  <oucssApplication>
    <!-- Configuration related to OUCSS Portal Application.For complete details refer to
Installation document -->
    <oucssPortal>
     <!--This is to identify for deploying application-->
      <deploy>true</deploy>
      <!-- Application name used for Portal Application deployment.Do not change this -->
      <applicationName>OUCSSPortal</applicationName>
      <!-- Admin server details -->
      <adminServer>
        <hostName>hostname.company.com</hostName>
        <portNumber>7001</portNumber>
        <serverName>AdminServer</serverName>
        <domainName>portal domain</domainName>
<domainLocation>/scratch/OUCSS/Middleware10.3.6/user projects/domains/portal domain</domainLo</pre>
cation>
        <realmName>myrealm</realmName>
        <!-- WebLogic admin credentials -->
        <security>
          <userName>weblogic</userName>
              <password>password</password>
        </security>
      </adminServer>
      <deployTarget>
       <!-- Optional. If not provided Installer will intelligently identify the Cluster or
Server.-->
```

```
<clusterOrServer>Cluster</clusterOrServer>
        <clusterOrServerName>OUCSS Cluster</clusterOrServerName>
        <hostName>hostname.company.com</hostName>
        <portNumber>9002</portNumber>
      </deployTarget>
      <!-- DB Details to create or connect to OUCSS Schema -->
      <database>
        <createDB>true</createDB>
        <hostName>hostname.company.com</hostName>
        <portNumber>1521</portNumber>
        <sid>DB SID</sid>
        <!-- SYSDBA Credential e.g. sys or system user. -->
        <sysdba>
          <userName>SYSTEM</userName>
              <password>password</password>
        </sysdba>
        <schema>
          <userName>oucss schema name</userName>
              <password>password</password>
        </schema>
        <!--Currently this flag is not used.Leave this blank -->
        <createDataSource>true</createDataSource>
        <dataSourceName>OUCSSDS</dataSourceName>
        <jndi>jdbc/OUCSSDS</jndi>
        <installedVersion>2.2.0.0</installedVersion>
      </database>
      <!-- MDS configuration for Portal Application -->
      <mdsConfig>
        <repositoryName>mds-CustomPortalDS</repositoryName>
        <partitionName>OUCSSPortal</partitionName>
        <repositoryType>DB</repositoryType>
        <jndi>jdbc/mds/CustomPortalDS</jndi>
            <database>
                <userName>OUCSS MDS</userName>
                <password>password</password>
                <hostName>hostname.company.com</hostName>
                <portNumber>1521</portNumber>
                <sid>DB SID</sid>
            </database>
      </mdsConfig>
         <contextRoots>
            <OUCSSPortal><contextRoot>OUCSSPortal</contextRoot></OUCSSPortal>
            <OUCSSPortalWeb><contextRoot>OUCSSPortalWeb</contextRoot></OUCSSPortalWeb>
        </contextRoots>
    </oucssPortal>
  <!-- Configuration to deploy OUCSS Inbound web services.For complete details refer to
Installation document -->
    <oucssInbound>
      <!--This is to identify for deploying application-->
      <deploy>true</deploy>
            <!-- Please do not change this application name as this being used to deploy. -->
      <applicationName>OUCSSInboundServices</applicationName>
      <!-- Admin server details -->
      <adminServer>
        <hostName>hostname.company.com</hostName>
        <portNumber>7001</portNumber>
        <serverName>AdminServer</serverName>
        <domainName>portal domain</domainName>
<domainLocation>/scratch/OUCSS/Middleware10.3.6/user projects/domains/portal domain</domainLo</pre>
cation>
        <realmName>myrealm</realmName>
```

```
<!-- WebLogic Admin credentials -->
```

```
<security>
          <userName>weblogic</userName>
              <password>password</password>
        </security>
      </adminServer>
      <deployTarget>
        <!-- Optional.If not provided Installer will intelligently identify the Cluster or
Server.-->
        <clusterOrServer>Cluster</clusterOrServer>
        <clusterOrServerName>OUCSS Cluster</clusterOrServerName>
        <hostName>hostname.company.com</hostName>
        <portNumber>9002</portNumber>
      </deployTarget>
       <\!!-- DB Details to create or connect to OUCSS Schema --\!>
      <database>
        <createDB>true</createDB>
        <hostName>hostname.company.com</hostName>
        <portNumber>1521</portNumber>
        <sid>DB SID</sid>
        <sysdba>
          <userName>system</userName>
          <password>password</password>
        </sysdba>
        <schema>
          <userName>OUCSS Schema Name</userName>
          <password>password</password>
        </schema>
        <!-- Currently this flag is not used.Leave this blank -->
        <createDataSource></createDataSource>
        <dataSourceName>OUCSSDS</dataSourceName>
        <jndi>jdbc/OUCSSDS</jndi>
        <installedVersion>2.2.0.0</installedVersion>
      </database>
      <!-- MDS configuration for Inbound -->
       <mdsConfig>
        <repositoryName>mds-CustomPortalDS</repositoryName>
        <partitionName>OUCSSInbound</partitionName>
        <repositoryType>DB</repositoryType>
        <jndi>jdbc/mds/CustomPortalDS</jndi>
            <database>
              <userName>OUCSS MDS</userName>
              <password>password</password>
              <hostName>hostname.company.com</hostName>
              <portNumber>1521</portNumber>
              <sid>DB SID</sid>
            </database>
      </mdsConfig>
      <contextRoots>
      <AccountEnroll><contextRoot>OUCSSAccountEnroll</contextRoot></AccountEnroll>
      <OUCSSRest><contextRoot>OUCSSRest</contextRoot></OUCSSRest>
      <Offers><contextRoot>OUCSSOffers</contextRoot></Offers>
      </contextRoots>
    </oucssInbound>
  </oucssApplication>
  <oucssConnection>
    <!-- CCB webservice connection details -->
    <OUCCB>
        <enabled>true</enabled>
        <hostName>hostname.company.com</hostName>
        <portNumber>8000</portNumber>
        <protocol>http</protocol>
        <context>spl</context>
```

```
<security>
         <userName>SYSUSER</userName>
           <password>password</password>
           <csf-key>OUCSS XAI BASIC KEY</csf-key>
    </security>
</OUCCB>
<!-- NMS webservice connection details -->
<OUNMS>
  <enabled>true</enabled>
 <hostName>hostname.company.com</hostName>
  <portNumber>7001</portNumber>
  <protocol>http</protocol>
  <partitionName>OUCSS</partitionName>
  <security>
   <userName>weblogic</userName>
   <password>password</password>
   <csf-key>OUCSS_INTG_BASIC_KEY</csf-key>
 </security>
</OUNMS>
<!-- MDM webservice connection details -->
<OUMDM>
 <enabled>true</enabled>
 <hostName>hostname.company.com</hostName>
 <portNumber>7001</portNumber>
  <protocol>http</protocol>
  <partitionName>OUCSS</partitionName>
  <security>
    <userName>weblogic</userName>
    <password>password</password>
    <csf-key>OUCSS INTG BASIC KEY</csf-key>
  </security>
</OUMDM>
<!-- Notification webservice connection details -->
<OUNC>
<enabled>true</enabled>
 <hostName>hostname.company.com</hostName>
 <portNumber>7001</portNumber>
 <protocol>http</protocol>
 <partitionName>OUNC</partitionName>
  <security>
     <userName>weblogic</userName>
    <password>password</password>
    <csf-key>OUCSS_OUNC_BASIC_KEY</csf-key>
 </security>
</OUNC>
<!-- Configutation for Optional OUCSS-BPEL-CCB servers.
    If enabled, select CCB connections will be configured using the below details.-->
<OUCSS BPEL CCB>
 <enabled>false</enabled>
 <hostName>hostname.company.com</hostName>
 <portNumber>7001</portNumber>
 <protocol>http</protocol>
 <partitionName>OUCSS</partitionName>
  <security>
     <userName>weblogic</userName>
    <password>password</password>
   <csf-key>OUCSS INTG BASIC KEY</csf-key>
 </security>
</OUCSS BPEL CCB>
<OUCSSMISC>
 <enabled>true</enabled>
 <hostName>hostname.company.com</hostName>
 <portNumber>7001</portNumber>
```

```
<protocol>http</protocol>
      <partitionName>OUCSS</partitionName>
      <security>
        <userName>weblogic</userName>
        <password>password</password>
        <csf-key>OUCSS INTG BASIC KEY</csf-key>
      </security>
    </OUCSSMISC>
    <OUCSS Inbound>
      <security>
            <keystore-csf>
                  <userName>owsm</userName>
                  <password>password</password>
                  <csf-key>keystore-csf-key</csf-key>
            </keystore-csf>
            <sign-csf>
                  <userName>orakey</userName>
                  <password>password</password>
                  <csf-key>sign-csf-key</csf-key>
            </sign-csf>
            <enc-csf>
                  <userName>orakey</userName>
                  <password>password</password>
                  <csf-key>enc-csf-key</csf-key>
            </enc-csf>
      </security>
    </OUCSS Inbound>
    <!-- Mail Server connection details -->
    <mailServer>
      <enabled>true</enabled>
      <hostName>mail.company.com</hostName>
     <portNumber>25</portNumber>
      <protocol>smtp</protocol>
      <fromAddress>wssAdmin@company.com</fromAddress>
    </mailServer>
    <!-- MapViewer connection details -->
    <mapViewer>
        <enabled>true</enabled>
        <hostName>mapviewer.company.com</hostName>
        <portNumber>7001</portNumber>
        <protocol>http</protocol>
        <context>mapviewer</context>
        <basemap>NAVTEQ_SF.WORLD_MAP</basemap>
        <colorTheme>OUCSS OUTAGE AREAS</colorTheme>
        <colorThemeLocColumn>AREA</colorThemeLocColumn>
        <srid>8307</srid>
    </mapViewer>
    <!-- WSDL URL of external Offers WebService to use if Inbound services are not deployed -
->
    <ExternalOfferService URL/>
  </oucssConnection>
</oucssInstall>
```

InstallProperties XPath Descriptions and Examples

XPath information contained in *InstallProperties.xml* is as follows:

- /oucssInstall/oucssApplication/oucssPortal All sub-elements of this node contain information specific to OUCSS Portal.
- /oucssInstall/oucssApplication/oucssInbound

All sub-elements of this node contain information specific to Inbound Web Services in CSS.

• /oucssInstall/oucssConnection/OUCCB

All sub-elements of this node contain information specific to CCB.

• /oucssInstall/oucssConnection/OUNMS

All sub-elements of this node contain information specific to NMS.

• /oucssInstall/oucssConnection/OUMDM

All sub-elements of this node contain information specific to MDM.

• /oucssInstall/oucssConnection/OUNC

All sub-elements of this node contain information specific to Notification Center.

• /oucssInstall/oucssConnection/OUCSS_BPEL_CCB

All sub-elements of this node contain information specific to BPEL flows for CCB.

• /oucssInstall/oucssConnection/mailServer

All sub-elements of this node contain information specific to Mail Server.

/oucssInstall/oucssConnection/mapViewer

All sub-elements of this node contain information specific to Map Viewer.

XPath	Description	Example
/oucssInstall/oucssApplication/oucssPortal/deploy	Set to true if OUCSS Portal application should be deployed	true
/oucssInstall/oucssApplication/oucssPortal/applicationName	Application name to be used to install OUCSS Portal location. It should be OUCSSPortal	OUCSSPortal
/oucssInstall/oucssApplication/oucssPortal/adminServer/hostname	Hostname of Admin server of WebLogic domain hosting CSS Portal application	portal.company.com

/oucssInstall/oucssApplication/oucssPortal/adminServer/portNumber	Port Number of Admin server of WebLogic domain hosting CSS Portal application	7001
/oucssInstall/oucssApplication/oucssPortal/adminServer/serverName	Admin server name of WebLogic domain hosting CSS Portal application	AdminServer
/oucssInstall/oucssApplication/oucssPortal/adminServer/domainName	Admin server Domain Name of oucssPortal	portal_domain
/oucssInstall/oucssApplication/oucssPortal/adminServer/domainLocation	Admin Server Domain Location of oucssPortal	/XXX/OUCSS210/Middleware/us er_projects/domains/portal_doma in
/oucssInstall/oucssApplication/oucssPortal/adminServer/realmName		myrealm
/oucssInstall/oucssApplication/oucssPortal/adminServer/security/userName	Admin user name to connect to Admin server	weblogic
/oucssInstall/oucssApplication/oucssPortal/adminServer/security/password	Admin user password to connect to Admin server	password
/oucssInstall/oucssApplication/oucssPortal/adminServer/security/password	The security policy that OUCSS accepts when invoking its webservice.	Use oracle/ wss_http_token_client_policy for XAI services or refer to the Security Policies section for more information when invoking IWS services.
/oucssInstall/oucssApplication/oucssPortal/deployTarget/clusterOrServer	Deployment Target Type for CSS Portal	Cluster
/oucssInstall/oucssApplication/oucssPortal/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting CSS.	WC_CustomPortal
/oucssInstall/oucssApplication/oucssPortal/deployTarget/hostName	URL for the Cluster/Server hosting CSS.This will host the OUCSS Portal EAR file	portal.company.com
/oucssInstall/oucssApplication/oucssPortal/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS.	9000
/oucssInstall/oucssApplication/oucssPortal/database/createDB	Flag to indicate if CSS Schema should be created	true

/oucssInstall/oucssApplication/oucssPortal/database/hostName	Hostname to connect to CSS Database	db.company.com
/oucssInstall/oucssApplication/oucssPortal/database/portNumber	Port number to connect to CSS Database	1521
/oucssInstall/oucssApplication/oucssPortal/database/sid	SID/service name to connect to DB	OUCSS
/oucssInstall/oucssApplication/oucssPortal/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	false
/oucssInstall/oucssApplication/oucssPortal/database/sysdba/userName	Sys user to connect to CSS Database	system Note : If using sys user, then use "sys as sysdba".
/oucssInstall/oucssApplication/oucssPortal/database/ sysdba/password	Sys user password	password
/oucssInstall/oucssApplication/oucssPortal/database/schema/userName	CSS DB username/schema which will host CSS specific DB objects	Oucss
/oucssInstall/oucssApplication/oucssPortal/database/schema/password	Password for CSS DB username/schema	password
/oucssInstall/oucssApplication/oucssPortal/database/createDataSource	Currently this flag is not used.Leave this blank	
/oucssInstall/oucssApplication/oucssPortal/database/dataSourceName	OUCSSDS is default Datasource Name used by the application.Datasou rce Name should be OUCSSDS	OUCSSDS
/oucssInstall/oucssApplication/oucssPortal/database/jndi	Set to jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssInstall/oucssApplication/oucssPortal/database/installedVersion	Leave it blank on install. This property is used only on Upgrade. Set the property to the current installed OUCSS version.	
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/repositoryName	Name of the MDS repository	mds-CustomPortalDS

/oucssInstall/oucssApplication/oucssPortal/mdsConfig/partitionName	MDS Partition name of oucssPortal	OUCSSPortal
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/repositoryType	Repository type	DB
		Note:Only DB type MDS is supported.
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/jndi	JNDI name for WebLogic Datasource for Portal MDS	jdbc/mds/CustomPortalDS
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/database/userName	Username of schema hosting MDS for CSS application.	OUCSS_MDS
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/database/password	Password to connect to schema	password
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/database/hostName	Hostname to connect to DB hosting MDS	db.company.com
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/database/portNumber	Portnumber to connect to DB hosting MDS	1521
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/database/sid	SID/service name to connect to schema	OUCSS
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	false
/oucssInstall/oucssApplication/oucssPortal /contextRoots/OUCSSPortal/contextRoot	Context Root for the OUCSSPortal	OUCSSPortal
/oucssInstall/oucssApplication/ oucssPortal /contextRoots/OUCSSPortalWeb/contextRoot	Context Root for the OUCSSPortalWeb	OUCSSPortalWeb
/oucssInstall/oucssApplication/oucssInbound/deploy	Set to true if OUCSS Inbound Services should be deployed	true
/oucssInstall/oucssApplication/oucssInbound/applicationName	Application name to be used to install OUCSS Inbound Services	OUCSSInboundServices

/oucssInstall/oucssApplication/oucssInbound/adminServer/hostName	Hostname of Admin server of WebLogic domain hosting OUCSS Inbound Services	inbound.company.com
/oucssInstall/oucssApplication/oucssInbound/adminServer/portNumber	Port Number of Admin server of WebLogic domain hosting OUCSS Inbound Services	7001
/oucssInstall/oucssApplication/oucssInbound/adminServer/serverName	Admin server name of WebLogic domain hosting OUCSS Inbound Services	AdminServer
/oucssInstall/oucssApplication/oucssInbound/adminServer/domainName	Admin Server Domain Name	portal_domain
/oucssInstall/oucssApplication/oucssInbound/adminServer/domainLocation	Admin Server Domain Location	/XXX/OUCSS210/Middleware/us er_projects/domains/portal_doma in
/oucssInstall/oucssApplication/oucssInbound/adminServer/realName	WebLogic RealName where You need to create OUCSS Users and Groups	myrealm
/oucssInstall/oucssApplication/oucssInbound/adminServer/security/userName	Admin user to connect to Admin server	weblogic
/oucssInstall/oucssApplication/oucssInbound/adminServer/security/password	Admin user password to connect to Admin server	password
/oucssInstall/oucssApplication/oucssInbound/deployTarget/clusterOrServer	Deployment Target Type for OUCSS Inbound Services	Cluster
/oucssInstall/oucssApplication/oucssInbound/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting OUCSS Inbound Services.	InBoundCluster
/oucssInstall/oucssApplication/oucssInbound/deployTarget/hostName	This will host the OUCSS Inbound will be deployed	inbound.company.com
/oucssInstall/oucssApplication/oucssInbound/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS Inbound	9001

/oucssInstall/oucssApplication/oucssInbound/database/createDB	Flag to indicate if Inbound related data should be created	false
/oucssInstall/oucssApplication/oucssInbound/database/hostName	Hostname to connect to CSS Database. Can be same as for CSS Portal	db.company.com
/oucssInstall/oucssApplication/oucssInbound/database/portNumber	Port number to connect to CSS Database. Can be same as for CSS Portal	1521
/oucssInstall/oucssApplication/oucssInbound/database/sid	SID/service name to connect to schema	OUCSS
/oucssInstall/oucssApplication/oucssInbound/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	false
/oucssInstall/oucssApplication/oucssInbound/database/sysdba/userName	Sys user to connect to CSS Database. Can be same as for CSS Portal	System Note: If using sys user, then use "sys as sysdba".
/oucssInstall/oucssApplication/oucssInbound/database/sysdba/password	Sys user password. Can be same as for CSS Portal	password
/oucssInstall/oucssApplication/oucssInbound/database/schema/userName	CSS DB username/schema which will host CSS specific DB objects. Can be same as for CSS Portal	Oucss
/oucssInstall/oucssApplication/oucssInbound/database/schema/password	Password for CSS DB username/schema. Can be same as for CSS Portal	password
/oucssInstall/oucssApplication/oucssInbound/database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssInstall/oucssApplication/oucssInbound/database/dataSourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS

/oucssInstall/oucssApplication/oucssInbound/database/jndi	This should be as jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssInstall/oucssApplication/oucssInbound/database/installedVersion	Leave it blank for new install. This property is used only on Upgrade. Set the property to the current installed OUCSS version.	
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/repositoryName	Name of the MDS repository	mds-CustomPortalDS
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/partitionName	MDS PartitionName of oucssInbound	OUCSSInbound
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/repositoryType	Repository type	DB Only DB type MDS is supported.
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/jndi	JNDI name for WebLogic Datasource for CSS InboundMDS	jdbc/mds/CustomPortalDS
/oucssInstall/oucssApplication/oucssInbound /mdsConfig/database/userName	Username of schema hosting MDS for CSS Inbound application.	OUCSS_MDS
/oucssInstall/oucssApplication/oucssInbound /mdsConfig/database/password	Password to connect to schema	password
/oucssInstall/oucssApplication/oucssInbound /mdsConfig/database/hostName	Hostname to connect to DB hosting MDS	db.company.com
/oucssInstall/oucssApplication/oucssInbound /mdsConfig/database/portNumber	Portnumber to connect to DB hosting MDS	1521
/oucssInstall/oucssApplication/oucssInbound /mdsConfig/database/sid	SID/service name to connect to schema	oucss
/oucssInstall/oucssApplication/oucssInbound/contextRoots/AccountEnroll//contextRoot	Context Root for the Account Enroll	OUCSS_AccountEnroll
/oucssInstall/oucssApplication/oucssInbound/contextRoots/OUCSSRest//contextRoot	Context Root for the Rest Services	OUCSSRest
/oucssInstall/oucssApplication/oucssInbound/contextRoots/Offers//contextRoot	Context Root for the OUCSS_Offers	OUCSS_Offers
/oucssInstall/oucssConnection/OUCCB/is-iws-enabled	Set to true if CCB related connections need to be created from CSS Portal	true
/oucssInstall/oucssConnection/OUCCB/hostName	Hostname of server hosting CCB application	ccb.company.com
---	---	---
/oucssInstall/oucssConnection/OUCCB/portNumber	Portnumber on which CCB application is listening	8500
/oucssInstall/oucssConnection/OUCCB/protocol	Protocol of CCB application URL	http
/oucssInstall/oucssConnection/OUCCB/context	Appcontext of CCB application URL	If your CCB application URL is http://ccbhostname.us.com:8500/ spl, the appcontext would be "spl"
/oucssInstall/oucssConnection/OUCCB/security/userName	Username which should be use to create CSF Key for CCB XAI Inbound calls	SPLXAI
/oucssInstall/oucssConnection/OUCCB/security/password	Password which should be use to create CSF Key for CCB XAI Inbound calls	password
/oucssInstall/oucssConnection/OUCCB/security/policy/csf-key	Name of csf-key created in CSS WebLogic domain to connect to CCB application	OUCSS_XAI_BASIC_KEY
/oucssInstall/oucssConnection/OUNMS/enabled	Set to true if NMS related connections need to be created from CSS Portal	True
/oucssInstall/oucssConnection/OUNMS/hostName	Hostname of SOA server hosting BPEL processes for connecting to NMS application	soa.company.com
/oucssInstall/oucssConnection/OUNMS/portNumber	Portnumber on which SOA server is listening	8500
/oucssInstall/oucssConnection/OUNMS/protocol	Protocol of SOA application URL	http
/oucssInstall/oucssConnection/OUNMS/partitionName	SOA partition name	OUCSS
/oucssInstall/oucssConnection/OUNMS/security/userName	Username which should be use to create CSF Key for NMS related BPEL processes	weblogic

/oucssInstall/oucssConnection/OUNMS/security/password	Password which should be use to create CSF Key for NMS related BPEL processes	password
/oucssInstall/oucssConnection/OUNMS/security/policy/csf-key	Name of csf-key created in CSS WebLogic domain to connect to NMS related BPEL processes	OUCSS_INTG_BASIC_KEY
/oucssInstall/oucssConnection/OUNC/enabled	Set to true if Notification center related connections need to be created from CSS Portal	true
/oucssInstall/oucssConnection/OUNC/hostName	Hostname of SOA server hosting BPEL processes for connecting to Notification center	soa.company.com
/oucssInstall/oucssConnection/OUNC/portNumber	Portnumber on which SOA server is listening	8500
/oucssInstall/oucssConnection/OUNC/protocol	Protocol of SOA application URL	http
/oucssInstall/oucssConnection/OUNC/partitionName	SOA partition name	OUNC
/oucssInstall/oucssConnection/OUNC/security/userName	Username which should be use to create CSF Key for Notification center related BPEL processes	weblogic
/oucssInstall/oucssConnection/OUNC/security/password	Password which should be use to create CSF Key for Notification center related BPEL processes	password
/oucssInstall/oucssConnection/OUNC/security/policy/csf-key	Name of csf-key created in CSS WebLogic domain to connect to Notification center related BPEL processes	OUCSS_INTG_BASIC_KEY

/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/enabled	Configuration for Optional OUCSS- BPEL-CCB BPEL processes. If enabled, select CCB connections will be configured using the below details.	false
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/hostName	Hostname of SOA server hosting BPEL processes for connecting to optional BPEL flows to CCB.	soa.company.com
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/portNumber	Portnumber on which SOA server is listening	8500
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/protocol	Protocol of SOA application URL	http
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/partitionName	SOA partition name	OUCSS
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/security/userName	Username which should be use to create CSF Key for optional BPEL flows to CCB	weblogic
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/security/password	Password which should be use to create CSF Key for optional BPEL flows to CCB.	password
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/security/policy/csf-key	Name of csf-key created in CSS WebLogic domain to connect to optional BPEL flows to CCB.	OUCSS_INTG_BASIC_KEY
/oucssInstall/oucssConnection/OUCSSMISC/enabled	If enabled the below connections are created for the application	true
/oucssInstall/oucssConnection/OUCSSMISC/hostName	Hostname of SOA server hosting BPEL processes for connecting to optional BPEL flows to CCB.	soa.company.com
/oucssInstall/oucssConnection/OUCSSMISC/portNumber	Portnumber on which SOA server is listening	8500

/oucssInstall/oucssConnection/OUCSSMISC/protocol	Protocol of the SOA application URL	http
/oucssInstall/oucssConnection/OUCSSMISC/partitionName	SOA partition name where the OUCSSMISC composites are deployed.	OUCSS
/oucssInstall/oucssConnection/OUCSSMISC/security/userName	Username which should be used to create csf key for Miscellaneous services	weblogic
/oucssInstall/oucssConnection/OUCSSMISC/security/password	password which should be used to create csf key for Miscellaneous services	password
/oucssInstall/oucssConnection/OUCSSMISC/security/policy/csf-key	Name of csf-key created in CSS WebLogic domain to connect from Miscellaneous services	OUCSS_INTG_BASIC_KEY
/oucssInstall/oucssConnection/OUCSS_Inbound/security/keystore-csf/userName	Username which should be used to create csf key for Inbound services	owsm
/oucssInstall/oucssConnection/OUCSS_Inbound/security/keystore-csf/password	Password which should be use to create CSF Key for Inbound services	password
/oucssInstall/oucssConnection/OUCSS_Inbound/security/keystore-csf/csf-key	Name of csf-key created in CSS WebLogic domain to connect from rest services	keystore-csf-key
/oucssInstall/oucssConnection/OUCSS_Inbound/security/sign-csf/username	Username which should be used to create csf key for Inbound services	orakey
/oucssInstall/oucssConnection/OUCSS_Inbound/security/sign-csf/password	Password which should be use to create CSF Key for Inbound services	password
oucssInstall/oucssConnection/OUCSS_Inbound/security/sign-csf/csf-key	Name of csf-key created in CSS WebLogic domain to connect from rest services	sign-csf-key

 /oucssInstall/oucssConnection/OUCSS_Inbound/security/enc-csf/username	Username which should be used to create csf key for Inbound services	orakey
/oucssInstall/oucssConnection/OUCSS_Inbound/security/enc-csf/password	Password which should be use to create CSF Key for Inbound services	password
/oucssInstall/oucssConnection/OUCSS_Inbound/security/enc-csf/csf-key	Name of csf-key created in CSS WebLogic domain to connect from rest services	enc-csf-key
/oucssInstall/oucssConnection/mailServer/enabled	Flag to indicate if Mail Server related configuration should be created	true
/oucssInstall/oucssConnection/mailServer/hostName	Mail server hostname	mail.company.com
/oucssInstall/oucssConnection/mailServer/portNumber	Mail server portnumber	25
/oucssInstall/oucssConnection/mailServer/protocol	Mail server protocol	Smtp
/oucssInstall/oucssConnection/mailServer/fromAddress	Mail server from address	wssAdmin@company.com
/oucssInstall/oucssConnection/mapViewer/enabled	Flag to indicate if Map Viewer related configuration should be created	true
/oucssInstall/oucssConnection/mapViewer/hostName	Map Viewer Host name	mapviewer.company.com
/oucssInstall/oucssConnection/mapViewer/portNumber	Map Viewer Port number	7001
/oucssInstall/oucssConnection/mapViewer/protocol	Map Viewer Protocol	http
/oucssInstall/oucssConnection/mapViewer/context	MapViewer context	mapviewer
/oucssInstall/oucssConnection/mapViewer/basemap	MapViewer base map	NAVTEQ_SF.WORLD_MAP
/oucssInstall/oucssConnection/mapViewer/ colorTheme	MapViewer color Theme	OUCSS_OUTAGE_AREAS
/oucssInstall/oucssConnection/mapViewer/ colorThemeLocColumn	MapViewer color Theme Loc Column	AREA
/oucssInstall/oucssConnection/mapViewer/srid	MapViewer SRID	8307

/oucssInstall/oucssConnection/ExternalOfferService_WSDL

Configure the WSDL URL of Custom Offer Service if the OTB Offer Service is not used, leave it blank otherwise.

Appendix C

CSS Direct BPEL Flows Installation Properties

The following XML file contains the structure and sample data contained in *InstallProperties.xml* (used for installing CSS BPEL flows):

```
<?xml version="1.0" encoding="UTF-8"?>
<config>
<modulename>OUCSS</modulename>
<soapartition>OUCSS</soapartition>
<mdspartition>OUCSS</mdspartition>
<EdgeApplications>
  <OUMDM>
         <ManagedServer>
                <hostname>mdmhost.company.com</hostname>
                <portnumber>13000</portnumber>
                <protocol>http</protocol>
                <context>ouaf</context>
                <servername/>
                <username/>
                <password/>
         </ManagedServer>
         <username>SYSUSER</username>
         <password>password</password>
         <policy> oracle/wss_username_token_client_policy</policy>
  </OUMDM>
  <OUCCB>
         <ManagedServer>
                <hostname>ccbhost.company.com</hostname>
                <portnumber>8500</portnumber>
                <protocol>http</protocol>
                <context>spl</context>
                <servername/>
                <username></username>
                <password></password>
         </ManagedServer>
```

```
<username>SYSUSER</username>
         <password>password</password>
         <policy> oracle/wss_http_token_over_ssl client policy</policy>
  </OUCCB>
  <OUNMS>
         <enabled>true</enabled>
         <db>
                <xads-flag>true</xads-flag>
                <multi-ds>
                              <hostname>db.company.com</hostname>
                              <port>1521</port>
                              <sid>oucss</sid>
                              <multids>CSSNMSMultiDS</multids>
                              <dsnameslist>CSSNMSDataSource1</dsnameslist>
                              <algorithmtype>Load-Balancing</algorithmtype>
                </multi-ds>
                <generic-dss>
                       <generic-ds>
                              <hostname>db.company.com</hostname>
                              <port>1521</port>
                              <sid>oucss</sid>
                              <jdbcdsname>CSSNMSDataSource1</jdbcdsname>
                              <dbvendor>oracle</dbvendor>
<jdbc xa driver class>oracle.jdbc.xa.client.OracleXADataSource</jdbc xa driver class>
<jdbc driver class>oracle.jdbc.OracleDriver</jdbc driver class>
                              <user>schema name</user>
                              <pwd>password</pwd>
                       </generic-ds>
                </generic-dss>
                </db>
                </OUNMS>
</EdgeApplications>
<SOA>
  <AdminServer>
         <hostname>xxx.yourcompany.com</hostname>
         <portnumber>7001</portnumber>
         <servername>AdminServer</servername>
         <username>weblogic</username>
         <password>password</password>
         <domainname>soa domain</domainname>
  </AdminServer>
  <ManagedServer>
         <protocol>http</protocol>
         <hostname>soa.company.com</hostname>
         <portnumber>8001</portnumber>
         <servername>soa_server1</servername>
         <username>weblogic</username>
         <password>password</password>
  </ManagedServer>
  <OHSServer><!--For Standalone Environments provide the same hostname, portnumber and
protocol as that of the ManagedServer-->
         <protocol>http</protocol>
         <hostname>ohs.company.com</hostname>
         <mgdservernames>soa_server1,soa_server2</mgdservernames><!--For restarting the
list of managed servers-->
         <portnumber>7777</portnumber>
  </OHSServer>
  <mdsconfig>
         <mdsdbusername>system</mdsdbusername>
         <mdsdbuserpassword>password</mdsdbuserpassword>
         <mdsdbhostname>db.company.com</mdsdbhostname>
```

<mdsdbportnumber>1521</mdsdbportnumber> <mdsdbsid>oucss</mdsdbsid>
(NewhEley Netification)
<workflow.notlitcation></workflow.notlitcation>
<fromemailid>admin@company.com</fromemailid>
<notificationmode>yes</notificationmode>
<eh></eh>
<dba.dbusername>system</dba.dbusername>
<pre><dba.dbuserpassword>password</dba.dbuserpassword></pre>
<dbusername>schema</dbusername>
<dbuserpassword>password</dbuserpassword>
<dbuser.createflag>true</dbuser.createflag>
<dbhostname>db.company.com</dbhostname>
<dbportnumber>1521</dbportnumber>
<dbsid>oucss</dbsid>

InstallProperties XPath Descriptions and Examples

Property	Description	Example
<config></config>		
<modulename></modulename>	Name of the	Default: OUCSS
	integration module.	Do not change this value.
<soapartition></soapartition>	Name of the soa-	OUCSS
	partition if wish to be different from module name	Do not change this value.
<mdspartition></mdspartition>	Name of the mds-	OUCSS
	partition if wish to be different from module name	Do not change this value.
<edgeapplications></edgeapplications>		
<oumdm></oumdm>		
<managedserver></managedserver>		
<hostname></hostname>	MDM Application Hostname	mdmhostname.company.com
<portnumber></portnumber>	MDM application port number	7010
<protocol></protocol>	MDM Application Server protocol	http or https
	Valid values are http or https	

<context></context>	MDM context	Ouaf/XAIApp/xaiserver \rightarrow For XAI services
		ouaf/webservices \rightarrow For IWS servcies
<servername></servername>	Managed server name	
<username></username>	Currently not used; leave blank	
<password></password>	Currently not used; leave blank	
<username></username>	MDM Application Username	
	used in the MDM credential key OU_MDM2_02	
<password></password>	MDM Application Password used in the MDM credential key OU_MDM2_02	
<policy></policy>	The security policy that MDM accepts when invoking its webservice	Use oracle/ wss_http_token_client_policy for XAI services or refer to <u>Appendix I Security Policies</u> <u>section</u> for more information when invoking IWS services.
<ouccb></ouccb>		
<managedserver></managedserver>		
<hostname></hostname>	CCB Application Hostname	ccbhostname.company.com
<portnumber></portnumber>	CCB application port number	7010
<protocol></protocol>	CCB Application Server protocol Valid values are http or https	http or https
<context></context>	CCB context	Spl/XAIApp/xaiserver → For XAI Services
		spl/webservices \rightarrow For IWS Services
<servername></servername>	CCB Managed server name	
<username></username>	User name used to log in as an Managed server administrator.	
<password></password>	Password used to log in as a Managed server administrator.	
<username></username>	CCB Application Username	
	used in the CCB credential key OU_CCB_01	
<password></password>	CCB Application Password used in	

	the CCB credential key OU_CCB_01	
<policy></policy>	The security policy that CCB accepts when invoking its webservice	Use oracle/ wss_http_token_client_policy for XAI services or refer to <u>Appendix I Security Policies</u> <u>section</u> for more information when invoking IWS services.
<ounms></ounms>		
<enabled></enabled>	If defined as true, it will create NMS related artifacts.	
	Valid values are true or false	
<db></db>		
<xads-flag></xads-flag>	Create XA Data Source flag	Default: true
<multi-ds></multi-ds>		
<hostname></hostname>	Database hostname	soa.company.com
<port></port>	Database port number	1521
<sid></sid>	Database SID	OUCSS
<multids></multids>	Multi data source name	CSSNMSMultiDS (Do not change this value.)
<dsnameslist></dsnameslist>	Adds the list of the generic data sources the user wants to associate with the multi data source created.	CSSNMSDataSource1 (The name(s) defined here should be the same as the name defined in generic-dss/ generic- ds/jdbcdsname property)
<algorithmtype></algorithmtype>	Algorithm type for the Multi Data	Values:
	Source	Failover
<generic-dss></generic-dss>		
<generic-ds></generic-ds>		
<hostname></hostname>	NMS Database hostname	nms.company.com
<port></port>	NMS Database port number	1521
<sid></sid>	NMS Database SID	nmssid
<jdbcdsname></jdbcdsname>	NMS Data source name	CSSNMSDataSource1
<dbvendor></dbvendor>	DB Vendor	Default: oracle
<jdbc_xa_driver_class></jdbc_xa_driver_class>	JDBC Driver class	oracle.jdbc.OracleDriver

	<jdbc_driver_class></jdbc_driver_class>	JDBC XA Driver class	oracle.jdbc.xa.client.OracleXADataSource
	<user></user>	NMS Database user name	nmsdbuser
	<pwd></pwd>	NMS Database password	nmsdbpwd
<soa></soa>			
<adminserver></adminserver>			
<h< td=""><th>ostname></th><td>Host name of the server where admin server hosting SOA suite is installed.</td><td>adminserver.company.com</td></h<>	ostname>	Host name of the server where admin server hosting SOA suite is installed.	adminserver.company.com
<p< td=""><th>ortnumber></th><td>Port number the admin server (hosting SOA suite) is listening to.</td><td>7043</td></p<>	ortnumber>	Port number the admin server (hosting SOA suite) is listening to.	7043
<s< td=""><th>ervername></th><td>Admin server name (hosting SOA suite)</td><td>AdminServer</td></s<>	ervername>	Admin server name (hosting SOA suite)	AdminServer
<u< td=""><th>sername></th><td>User name used to log in as an Admin server (hosting SOA suite) administrator.</td><td>weblogic</td></u<>	sername>	User name used to log in as an Admin server (hosting SOA suite) administrator.	weblogic
<p< td=""><th>assword></th><td>Password used to log in as an Admin server (hosting SOA suite) administrator.</td><td></td></p<>	assword>	Password used to log in as an Admin server (hosting SOA suite) administrator.	
<d< td=""><th>omainname></th><td>WebLogic domain name hosting SOA suite.</td><td>soa_domain</td></d<>	omainname>	WebLogic domain name hosting SOA suite.	soa_domain
<managedserver></managedserver>			
<p< td=""><th>rotocol></th><td>Managed Server protocol Valid values are http or https</td><td>http</td></p<>	rotocol>	Managed Server protocol Valid values are http or https	http
<h< td=""><th>ostname></th><td>Host name of the server where managed server (hosting SOA suite) is installed. Even in the case of Cluster, provide the host name of one of the SOA managed server</td><td>soa.company.com</td></h<>	ostname>	Host name of the server where managed server (hosting SOA suite) is installed. Even in the case of Cluster, provide the host name of one of the SOA managed server	soa.company.com
<p< td=""><th>ortnumber></th><td>Port number the managed server (hosting SOA suite) is listening to. Even in the case of Cluster, provide the</td><td>8043</td></p<>	ortnumber>	Port number the managed server (hosting SOA suite) is listening to. Even in the case of Cluster, provide the	8043

		host name of one of the SOA managed server	
	<servername></servername>	Managed server name (hosting SOA suite)	Managedserver1
	<username></username>	User name used to log in to managed server (hosting SOA suite) as an administrator.	WebLogic
	<password></password>	Password used to log in to managed server (hosting SOA suite) as an administrator.	WebLogicPwd
<ohsserver></ohsserver>			
	<protocol></protocol>	The protocol with which theOracle HTTP Server can be accessed.If standalone single SOA server provide the protocol of the SOA Server	http
	<hostname></hostname>	The hostname of the OHS Server if single SOA server provide the hostname of the SOA server	hostname.company.com
	<mgdservernames></mgdservernames>	Provide all the managed servers that are listed in the Mod_WL_OHS file that are to be load balanced.In case of Cluster, the preferred name would be name of the Cluster instead of list of the servers separated by comma.	Soa_server1, soa_server2, or soa-Cluster1
	<portnumber></portnumber>	The portnumber of the OHS server.If standalone server provide the portnumber of the SOA server.	7777
	<mdsconfig></mdsconfig>		
	<mdsdbusername></mdsdbusername>	User name used to log in to MDS schema.	XXX_MDS

		_	
	<mdsdbuserpassword></mdsdbuserpassword>	Password used to log in to MDS schema.	
	<mdsdbhostname></mdsdbhostname>	Host name of the server hosting the database containing the MDS schema.	db.company.com
	<mdsdbportnumber></mdsdbportnumber>	Port number of the database containing MDS schema.	1521
	<mdsdbsid></mdsdbsid>	SID of the database containing MDS schema.	SID
<workflow.notification< td=""><td></td><td></td><td></td></workflow.notification<>			
<fr< td=""><td>omemailid></td><td>Email ID which should be set in the "From" property of Workflow Notification bean</td><td>admintest@company.com</td></fr<>	omemailid>	Email ID which should be set in the "From" property of Workflow Notification bean	admintest@company.com
<n< td=""><td>otificationmode></td><td>Notification Mode</td><td>yes</td></n<>	otificationmode>	Notification Mode	yes
<eh></eh>			
<dl< td=""><td>ba.dbusername></td><td>User name used to log in as a database administrator (DBA).</td><td>System</td></dl<>	ba.dbusername>	User name used to log in as a database administrator (DBA).	System
		This database hosts the schema required for the CSS Direct Flows Integration.	
<dl< td=""><td>ba.dbuserpassword></td><td>Password used to log in as a database administrator (DBA).</td><td></td></dl<>	ba.dbuserpassword>	Password used to log in as a database administrator (DBA).	
		This database hosts the schema required for CSS Direct Flows Integration.	
<dl< td=""><td>busername></td><td>User name used to log in to OUCSSDIRFL schema for CSS Direct Flows integration.</td><td>Schema_user</td></dl<>	busername>	User name used to log in to OUCSSDIRFL schema for CSS Direct Flows integration.	Schema_user
		This user can be automatically	

<dbuser< th=""><th>password></th><th>created by the install (set dbuser.createflag to true) or manually outside the install process. Password used to</th><th></th></dbuser<>	password>	created by the install (set dbuser.createflag to true) or manually outside the install process. Password used to	
		log in to OUCSSDIRFL schema for CSS Direct Flows Integration.	
<dbuser.< td=""><td>createflag></td><td>Flag specifying whether to create a new schema or use the existing schema for CSS Direct Flows Integration.</td><td>true</td></dbuser.<>	createflag>	Flag specifying whether to create a new schema or use the existing schema for CSS Direct Flows Integration.	true
		If the schema is created manually outside of the installation process, then set this value to "false". Else, set the value to "true", if the installation script should automatically create the schema.	
		Valid values: true or false (this is case sensitive)	
<dbhostr< td=""><td>name></td><td>Database host name used for CSS Direct Flows Integration.</td><td>Db.company.com</td></dbhostr<>	name>	Database host name used for CSS Direct Flows Integration.	Db.company.com
<dbportr< td=""><td>umber></td><td>Database port number used for CSS Direct Flows Integration.</td><td>1521</td></dbportr<>	umber>	Database port number used for CSS Direct Flows Integration.	1521
<dbsid></dbsid>		Database SID used for CSS Direct Flows Integration.	
<app></app>		These properties are needed to specify where the BPEL Wrapper Stored Procedure is to be created.	
		Normally, this will be in the NMS Database Information.	
<db_ven< td=""><td>dor_app></td><td>Db Vendor</td><td>Oracle</td></db_ven<>	dor_app>	Db Vendor	Oracle

 <jdbc_ds_name_app></jdbc_ds_name_app>	Leave blank. Not in use.	
<jdbc_driver_class_app></jdbc_driver_class_app>	JDBC Driver Class	oracle.jdbc.OracleDriver
 <db.hostname></db.hostname>	Database hostname	
<db.port></db.port>	Database port number	
<db.sid></db.sid>	Database SID	
<db.adminuser></db.adminuser>	Data Admin User name	
<db.adminpwd></db.adminpwd>	Data Admin password	
<dbuser></dbuser>	Database User name	
<dbpwd></dbpwd>	Database password	

Appendix D

OUNC Installation Properties

The following XML file contains the structure and sample data contained in *InstallProperties.xml* (used for installing OUNC flows):

```
<?xml version="1.0" encoding="UTF-8"?>
<config>
<OUNC>
  <modulename></modulename>
  <soapartition></soapartition>
  <mdspartition></mdspartition>
  <EdgeSystems>
         <CCB>
                <enabled></enabled>
                <hostname></hostname>
                <portnumber></portnumber>
                <servername></servername>
                <protocol></protocol>
                <appcontext></appcontext>
                <username></username>
                <password></password>
                <policy></policy>
         </CCB>
         <MDM>
                <enabled></enabled>
                <protocol></protocol>
                <hostname></hostname>
                <portnumber></portnumber>
                <username></username>
                <password></password>
                <policy></policy>
         </MDM>
         <NMS>
                <enabled></enabled>
                <DB>
                       <dbusername></dbusername>
                       <dbuserpassword></dbuserpassword>
                       <dbhostname></dbhostname>
```

```
<dbportnumber></dbportnumber>
                       <dbsid></dbsid>
                </DB>
         </NMS>
  </EdgeSystems>
  <Core>
         <SOA>
                <AdminServer>
                       <hostname></hostname>
                       <portnumber></portnumber>
                       <servername></servername>
                       <username></username>
                       <password></password>
                       <domainname></domainname>
                </AdminServer>
                <ManagedServer>
                       <hostname></hostname>
                       <portnumber></portnumber>
                       <servername></servername>
                       <username></username>
                       <password></password>
                </ManagedServer>
                <OHSServer><!--For Standalone Environments provide the same
hostname, portnumber and protocol as that of the ManagedServer-->
                       <protocol></protocol>
                       <hostname></hostname>
                       <mgdservernames></mgdservernames><!--For restarting the list of
managed servers-->
                       <portnumber></portnumber>
                </OHSServer>
                <mdsconfig>
                       <mdsdbusername></mdsdbusername>
                       <mdsdbuserpassword></mdsdbuserpassword>
                       <mdsdbhostname></mdsdbhostname>
                       <mdsdbportnumber></mdsdbportnumber>
                       <mdsdbsid></mdsdbsid>
                </mdsconfig>
                <partition-name></partition-name>
         </SOA>
         <DB>
                <dba.dbusername></dba.dbusername>
                <dba.dbuserpassword></dba.dbuserpassword>
                <dbusername></dbusername>
                <dbuserpassword></dbuserpassword>
                <dbuser.createflag></dbuser.createflag>
                <dbhostname></dbhostname>
                <dbportnumber></dbportnumber>
                <dbsid></dbsid>
                <installedVersion></installedVersion>
         </DB>
         <EH>
                  <dba.dbusername></dba.dbusername>
                  <dba.dbuserpassword></dba.dbuserpassword>
                  <dbusername></dbusername>
                  <dbuserpassword></dbuserpassword>
                  <dbuser.createflag></dbuser.createflag>
                  <dbhostname></dbhostname>
                  <dbportnumber></dbportnumber>
                  <dbsid></dbsid>
         </EH>
  </Core>
  <MailServer>
         <send>
```

	<hostname></hostname>
	<pre><portnumber></portnumber></pre>
	<protocol></protocol>
	<fromaddress></fromaddress>
<td>d></td>	d>
<td>-></td>	->
<ums></ums>	
<smpp></smpp>	
	<smsaccountid></smsaccountid>
	<smsserverhost></smsserverhost>
	<transmittersystemid></transmittersystemid>
	<receiversystemid></receiversystemid>
	<transmittersystemtype></transmittersystemtype>
	<receiversystemtype></receiversystemtype>
	<transmittersystempassword></transmittersystempassword>
	<receiversystempassword></receiversystempassword>
	<pre><servertransmitterport></servertransmitterport></pre>
	<serverreceiverport></serverreceiverport>
	<pre><defaultencoding></defaultencoding></pre>
	<senderaddresses></senderaddresses>
	<pre><applicationname></applicationname></pre>
<ematl></ematl>	
,,	<mailaccessprotocol></mailaccessprotocol>
	<pre></pre>
	<pre><uudianamailserver></uudianamailserver></pre>
	<pre><utgoingmailserverport></utgoingmailserverport></pre>
	<pre></pre>
	<pre><utgoinglisername></utgoinglisername></pre>
	<pre><utgoingosetmame> </utgoingosetmame></pre>
	<pre><pre></pre></pre>
	<pre><incominguserpasswords></incominguserpasswords></pre>
<td><pre>>></pre></td>	<pre>>></pre>
v/conrig/	

ХРАТН		Description	Example
<ounc></ounc>			
< modulename >		Name of the Integration Module	OUNC
<soapartition></soapartition>		Name of the partition if wish to be different from module name	OUNC_SOA
<mdspartition></mdspartition>		Name of the MDS partition if wish to be different from module name	OUNC_MDS
<edgesystems></edgesystems>			
< CCB >			
	<enabled></enabled>	Boolean value Default is yes. This application is actively part of the integration	Yes
	<hostname></hostname>	Host Name of the CCB application housed.	ccb.company.com
	<portnumber></portnumber>	port number at which the CCB application is listening.	1025
	<servername></servername>	Admin Server name	
	<protocol></protocol>	The protocol at which the CCB can be accessed. It can be http or https	http

connectout	contact root of the Application	Spl/XAIServer/xaiapp > For XAI services
	context root of the Application	spl/webservices > For IWS services
<username></username>	User name used to login to the application	SYSUSER
<pre><password></password></pre>	password used to login to the application	
<policy></policy>	The security policy that CCB accepts when invoking its webservice	Use oracle/ wss_http_token_client_policy for XAI services or refer to <u>Appendix I Security</u> <u>Policies section</u> for more information when invoking IWS services.
<mdm></mdm>		
<enabled></enabled>	Boolean value Default is yes. This application is actively part of the integration	no
<protocol></protocol>	The protocol at which the MDM can be accessed. It can be http or https	
<hostname></hostname>	Host Name of the MDM application housed.	
cportnumber>	port number at which the MDM application is listening.	
<username></username>	User name used to login to the application	
<password></password>	password used to login to the application	
<policy></policy>	The security policy that MDM accepts when invoking its webservice	Use oracle/ wss_http_token_client_policy for XAI services or refer to the <u>Appendix I</u> <u>Security Policies</u> section for more information when invoking IWS services.
<nms></nms>		
<enabled></enabled>	Boolean value Default is yes. This application is actively part of the integration	yes
<db></db>		
<dbusername></dbusername>	Database schema user name for OUNMS	
<dbuserpassword></dbuserpassword>	Database schema password for OUNMS	
<dbhostname></dbhostname>	Database host name for OUNMS	nms.company.com
<dbportnumber></dbportnumber>	Database listening port number for OUNMS	1521
<dbsid></dbsid>	Database service Id for OUNMS	nms
<core></core>		
<soa></soa>		
<adminserver></adminserver>		
<hostname></hostname>	Host name of the server where admin server is installed	soa.company.com
<pre>> </pre>	port number of the server where the admin server is installed.	7015
<servername></servername>	Admin Server name	
<username></username>	User name used to login to the WebLogic console as administrator	
<password></password>	password used to login to the WebLogic console	

		as administrator	
<doma< td=""><td>ainname></td><td>WebLogic domain name hosting the SOA server</td><td></td></doma<>	ainname>	WebLogic domain name hosting the SOA server	
< Manage	edServer >		
<hostn< td=""><td>ame></td><td>Host name of the server where soa server is installed.Even in the case of Cluster, provide the host name of one of the SOA managed server</td><td>soa.company.com</td></hostn<>	ame>	Host name of the server where soa server is installed.Even in the case of Cluster, provide the host name of one of the SOA managed server	soa.company.com
<portni< td=""><td>umber></td><td>Port number of the server where the soa server is installed. Even in the case of Cluster, provide the host name of one of the SOA managed server</td><td>8015</td></portni<>	umber>	Port number of the server where the soa server is installed. Even in the case of Cluster, provide the host name of one of the SOA managed server	8015
<serve< td=""><td>ername></td><td>SOA Server name. Even in the case of Cluster, provide the host name of one of the SOA managed server</td><td>soa_server1</td></serve<>	ername>	SOA Server name. Even in the case of Cluster, provide the host name of one of the SOA managed server	soa_server1
<usern< td=""><td>name></td><td>User name used to login to the WebLogic console as administrator</td><td></td></usern<>	name>	User name used to login to the WebLogic console as administrator	
<passv< td=""><td>word></td><td>Password used to login to the WebLogic console as administrator</td><td></td></passv<>	word>	Password used to login to the WebLogic console as administrator	
<ohsserver></ohsserver>			
<protocol></protocol>		The protocol with which theOracle HTTP Server can be accessed. If standalone single SOA server provide the protocol of the SOA Server	http
<hostname></hostname>		The hostname of the OHS Server if single SOA server provide the hostname of the SOA server	ohs.company.com
<mgdservernames></mgdservernames>		Provide all the managed servers that are listed in the Mod_WL_OHS file that are to be load balanced.The preferred value would be name of the Cluster	Soa_server1,soa_server2 (or) soa_cluster1
<portnumber></portnumber>		The portnumber of the OHS server. If standalone server provide the portnumber of the SOA server.	7777
< mdscor	nfig>		
<mdsd< td=""><td>lbusername></td><td>User name used to login to the MDS schema</td><td></td></mdsd<>	lbusername>	User name used to login to the MDS schema	
<mdsd< td=""><td>lbuserpassword></td><td>Password used to login to the MDS schema</td><td></td></mdsd<>	lbuserpassword>	Password used to login to the MDS schema	
<mdsd< td=""><td>lbhostname></td><td>Host name of the database containing the MDS schema</td><td>db.company.com</td></mdsd<>	lbhostname>	Host name of the database containing the MDS schema	db.company.com
<mdsd< td=""><td>lbportnumber></td><td>Port number of the database containing the MDS schema</td><td>1521</td></mdsd<>	lbportnumber>	Port number of the database containing the MDS schema	1521
<mdsd< td=""><td>lbsid></td><td>Service id of the database for the MDS schema</td><td>OUCSS</td></mdsd<>	lbsid>	Service id of the database for the MDS schema	OUCSS
<partiti< td=""><td>ion-name></td><td>Partition name used for the MDS configurations</td><td></td></partiti<>	ion-name>	Partition name used for the MDS configurations	
<db></db>			
<dba.d< td=""><td>lbusername></td><td>DBA admin user name to create schemas for NC</td><td></td></dba.d<>	lbusername>	DBA admin user name to create schemas for NC	
<dba.d< td=""><td>lbuserpassword></td><td>DBA password to create schemas for NC</td><td></td></dba.d<>	lbuserpassword>	DBA password to create schemas for NC	
<dbuse< td=""><td>ername></td><td>DB user name with which the schemas are created</td><td></td></dbuse<>	ername>	DB user name with which the schemas are created	
<dbuse< td=""><td>erpassword></td><td>DB password with which the schemas are created</td><td></td></dbuse<>	erpassword>	DB password with which the schemas are created	
<dbuse< td=""><td>er.createflag></td><td>Re-installation of DB based on the flag.</td><td></td></dbuse<>	er.createflag>	Re-installation of DB based on the flag.	
<dbhos< td=""><td>stname></td><td>schema user for the DB created for NC</td><td></td></dbhos<>	stname>	schema user for the DB created for NC	
<dbpor< td=""><td>rtnumber></td><td>schema password for DB created for NC</td><td></td></dbpor<>	rtnumber>	schema password for DB created for NC	
<dbsid< td=""><td>></td><td>Service id of the database for NC</td><td></td></dbsid<>	>	Service id of the database for NC	

<installedversion></installedversion>	Installed version
<eh></eh>	
<dba.dbusername></dba.dbusername>	DBA admin user name to create schemas for Error Handling
<dba.dbuserpassword></dba.dbuserpassword>	DBA password to create schemas for Error Handling
<dbusername></dbusername>	DB user name with which the schemas are created
<dbuserpassword></dbuserpassword>	DB password with which the schemas are created
<dbuser.createflag></dbuser.createflag>	Re-installation of DB based on the flag.
<dbhostname></dbhostname>	schema user for the DB created for EH
<dbportnumber></dbportnumber>	schema password for DB created for EH
<dbsid></dbsid>	Service id of the database for EH
<mailserver></mailserver>	
<send></send>	
<hostname></hostname>	Mail server host name
<portnumber></portnumber>	Mail server port number
<protocol></protocol>	
<fromaddress></fromaddress>	
< UMS >	
< SMPP >	
<smsaccountid></smsaccountid>	Account Identifier on SMSC
<smsserverhost></smsserverhost>	SMSC server host name (or IP address)
<transmittersystemid></transmittersystemid>	Account ID used to send out messages
<receiversystemid></receiversystemid>	Account ID used to receive messages
<transmittersystemtype></transmittersystemtype>	The type of transmitter system. The default value is 'Logica'
<receiversystemtype></receiversystemtype>	The type of receiver system. The default value is 'Logica'
<transmittersystempassword></transmittersystempassword>	Password of transmitter system.
<receiversystempassword></receiversystempassword>	Password of receiver system.
<servertransmitterport></servertransmitterport>	TCP port number of transmitter server.
<serverreceiverport></serverreceiverport>	TCP port number of receiver server.
<defaultencoding></defaultencoding>	Default encoding of driver. Default value is 'IA5'
<senderaddresses></senderaddresses>	Used in message routing, by matching against the sender address of the message. (Example: EMAIL:sender@example.com, EMAIL:sender@example2.com, etc.)
<applicationname></applicationname>	this is the application name for the user messaging service-smpp
< EMAIL >	

<mailaccessprotocol></mailaccessprotocol>	E-mail receiving protocol. The possible values are IMAP and POP3. Required only if e-mail receiving is supported on the driver instance	
<outgoingdefaultfromaddr></outgoingdefaultfromaddr>	The default FROM address (if one is not provided in the outgoing message).	
<outgoingmailserver></outgoingmailserver>	The name of the SMTP server. Mandatory only if e-mail sending is required.	
<outgoingmailserverport></outgoingmailserverport>	The port number of SMTP server. Typically 25.	
<outgoingmailserversecurity></outgoingmailserversecurity>	The security used by SMTP server. Possible values are None, TLS and SSL. Default value is None	
<outgoingusername></outgoingusername>	The username used for SMTP authentication. Required only if SMTP authentication is supported by the SMTP server	
<outgoingpassword></outgoingpassword>	The password used for SMTP authentication. Required only if SMTP authentication is supported by the SMTP server.	
<incominguserids></incominguserids>	The list of user names of the mail accounts the driver instance is polling from. Each name must be separated by a comma, for example, foo,bar. Required only if e-mail receiving is supported on the driver instance	
<incominguserpasswords></incominguserpasswords>	The list of passwords corresponding to the user names. Each password is separated by a comma and must reside in the same position in the list as their corresponding user name appears on the usernames list. Required only if e-mail receiving is supported on the driver instance.	
<applicationname></applicationname>	This is the application name for the user messaging service	usermessagingdriver-email
<capability></capability>	Sets the driver's capability to send or receive messages.	The values are SEND, RECEIVE, and BOTH.

Appendix E

CSF-Key Creation Failure and Workarounds

This appendix describes workarounds for an issue that can occur if either of NMS or MDM is used when <username> and <password> elements under <NMS> are not populated in InstallProperties.xml.

Issue Description

OUCSS_INTG_BASIC_KEY is commonly used for both NMS- and MDM- related Integration calls (BPEL/SOA). If either NMS or MDM is used, then this key is required.

The OUCSS Install Script uses, by default, properties from the <NMS> element in InstallProperties.xml to create this key. If the <username> and <password> elements under <NMS> are not populated in InstallProperties.xml, the OUCSS_INTG_BASIC_KEY key creation fails and one of the following workarounds must be applied.

IMPORTANT: Apply only Workaround 1 or Workaround 2. Do not apply both.

Workaround 1

If you are using only MDM and *not* NMS, populate the <NMS> element in InstallProperties.xml with the same <username> and <password> values configured for the <MDM> element.

Workaround 2

The key can also be created manually in Enterprise Manager:

- 1 Select Domain > Security > Credentials.
- 2 Select or create key map oracle.wsm.security, then click the Create Key button.

3 Under the Map **oracle.wsm.security**, provide the key name as **OUCSS_INTG_BASIC_KEY** and enter the details for username and password (related to BPEL/SOA), then select **OK** to create the key.

Verify OUCSS Security Credential

To load the credential page, follow the steps in the Verify the OUCSS Security Credential section earlier in this document.

Known Issue/Workaround in OUCSS Portal Uninstall

Follow this procedure if the OUCSS Portal uninstall fails with error "ORA-01940: Cannot drop a user that is currently connected". This error occurs only if you are connected to the OUCSS database user using SQL Developer, SQL *Plus, or similar tools.

To kill connected sessions so that user gets dropped and uninstall may proceed, you must execute the required SQL query to kill the connected session to the OUCSS database user, or apply a query as follows:

```
SELECT s.sid, s.serial#, s.status, p.spid FROM v$session s, v$process p WHERE s.username
= '<OUCSSDBUSERNAME>' and p.addr (+) = s.paddr;
SELECT 'alter system kill session ''' || s.sid || ',' || s.serial# || ''';' FROM
v$session s, v$process p WHERE s.username = ' <OUCSSDBUSERNAME> ' and p.addr (+) =
s.paddr;
```

SELECT * FROM v\$session WHERE USERNAME='<OUCSSDBUSERNAME>'

Note: <OUCSSDBUSERNAME> refers to the database user name which you are using for the OUCSS application.

Appendix F

Connection Management

Often it is required to change a single connection or set of connections (e.g., all CCB connections) with a new end point/host. Manually updating is time consuming and error prone.

This section discusses management of connections and connection sets for OUCSS Application (OUCSS Portal, OUCSS Inbound Services).

Configuration

Connection Mapping

All connections are mapped/grouped by EdgeApplication and ConnectionSet in <<<PRODUCT_HOME>>/config/ConnectionMappings.xml. Do not modify the ConnectionMapping.xml entries and use it only for reference purposes.

CCB connections are mapped under ConditionalConnection name="CCBorSOA" to facilitate conditionally creating connections either to CCB or CSS_BPEL_CCB setting configured in InstallProperties.xml.

Edge Applications

OUCSS Connections are classified into sets depending on the edge application used for the connection. Connections details for each can be configured using InstallProperties.xml using /oucssInstall/oucssConnection/<<connectionSet>>/ tags.

OUCCB

Connections associated with CCB XAI services. Configure or Update /oucssInstall/oucssConnection/OUCCB tag in InstallProperties to de-tokenize CCB connections.

OUNMS

Connections associated with NMS. Configure or Update oucssInstall/oucssConnection/OUNMS tag in InstallProperties to de-tokenize NMS connections.

OUMDM

Connections associated with MDM services. Configure or Update /oucssInstall/oucssConnection/OUMDM tag in InstallProperties to de-tokenize CCB connections.

OUNC

Connections associated with OUNC services. Configure or Update /oucssInstall/oucssConnection/OUNC tag in InstallProperties to de-tokenize OUNC connections.

CCBorSOA

Alternative to directly configuring CSS directly to CCB, a SOA layer Integration layer can be used in between. This provides optional CSS – CCB integration layer. Configure or Update /oucssInstall/oucssConnection/OUCSS_BPEL_CCB tag in InstallProperties to de-tokenize OUCSS_BPEL_CCB connections.

MapViewer

Connection associated with MapViewer. Configure or Update /oucssInstall/oucssConnection/mapViewer tag in InstallProperties to de-tokenize MapViewer connections.

OUCSSMISC

Web Service Connections associated read and upload of Account Documents.

Connection Sets

Each edge application is further sub categorized with OUCSSCore to define the set of connections.

OUCSSCore

Connections associated with residential modules in OUCSS applications are aggregated as OUCSSCore.

OUCSSCoreCommercial

Connections associated with commercial modules in OUCSS applications are aggregated as OUCSSCoreCommercial.

Management

Each connection is identified by four primary attributes: Connection Name (e.g., AccountSummaryService), Edge Application (e.g., CCB, NMS, etc), ConnectSet (e.g., OUCSSCore, OUCSSCoreCommercial, etc), and Application Name

(e.g., OUCSSPortal, OUCSSInboundServices, etc.). By categorizing connections using the above four attributes, connections can be created/deleted using any combination.

Modifying all Edge Application Connections

To create all the Connections in a Single Command in order to validate with the Edge application details provided in the InstallProperties.xml file the below steps would leverage to ensure you with the all connections being refreshed with the changes.

- 1 Set up the environment by performing steps 3 through 6 in the the <u>Installing OUCSS Portal</u> section of this document.
- 2 Run the following command to create all the Edge Applications connections under OUCSSPortal Application as follows

On Windows:

For OUCSS Portal application Connection Management:

```
ant -f InstallBuild.xml createPortalConnections -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l
createConnection4Portal.log
```

For OUCSS Inbound Services Connection Management:

```
ant -f InstallBuild.xml createInboundConnections -
DInstallProperties=%PRODUCT HOME%\config\InstallProperties.xml -l createConnection4IB.log
```

On UNIX/Linux:

For OUCSS Portal application Connection Management:

```
ant -f InstallBuild.xml createPortalConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee
createConnection4Portal.log
```

For OUCSS Inbound Services Connection Management:

```
ant -f InstallBuild.xml createInboundConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml | tee
createConnection4IB.log
```

Updating Connections

Follow the steps below to update a connection/connection set:

- 1 Modify the InstallProperties.xml file with updated Edge Application details.
- 2 Create a <u>single connection</u> or <u>connection set</u>.
 - If the OUCSS application interacts directly with the CCB application, set the oucssConnection.OUCSS_BPEL_CCB.enabled property to false in the InstallationProperties.xml file.
 - If the optional flows are also deployed and you wish to route through the SOA-enabled OUCCB application, then set the oucssConnection.OUCSS_BPEL_CCB.enabled property to true.
 - If the OUCSS_BPEL_CCB Flows are not deployed, then setting the flag oucssConnection.OUCSS_BPEL_CCB.enabled to *true* will try to reach the non-existing endpoint address and can cause runtime errors.

Appendix G

Account Documents Web Server

From Account Documents screen in CSS, a customer can view certain documents available for the account from CCB. In CCB, the link to the account document is setup as a **File Location Value Characteristic Type**. These characteristic types are then defined in master configuration. If any of these characteristics are present on the account, the inbound service returns the description and URL of the document for display in CSS.

CSS user can click to read a document and BPEL integration flow returns the read document for CSS to render. When retrieving documents needed for CSS, the integration flow reads the document from the file system by default. By default, the file to read the account document from either exists or is mounted on to the integration file server. The folder for the account documents location is determined using a set of configuration properties in the BPEL ConfigurationProperties file. Refer to the *Oracle Utilities Customer Self Service Implementation Guide* for information on the specific properties required and how they need to be set.

For a CSR in CCB to be able to view the document, as an http URL link, they should be able to access the account document file located on the integration server. In order to do that, it is suggested to use a web server that allows mapping of URLs to file locations.

The implementation can use any web server to achieve this mapping (e.g., Apache HTTP Server; for details, see "Mapping URLs to Filesystem Locations" in the Apache 2.2 documentation at http://httpd.apache.org/docs/2.2/urlmapping.html).

Important specifications include the correct Document Root, which is the directory that forms the main document tree visible from the web (e.g., /opt/apache2.2/htdocs). The DocumentRoot directive is set in your main server configuration file (httpd.conf) and, possibly, once for each additional Virtual Host you create. For additional documentation about the DocumentRoot, see the Apache server documentation at http://httpd.apache.org/docs/2.2/mod/core.html#documentroot.

Appendix H

XAI to IWS Web Services

This chapter describes the steps necessary for OUCSS to connect to OUCCB services using JAX-WS based Inbound Web Services (IWS). Oracle Utilities Application Framework currently provides the capability to expose any object within the product as a web service via the XML Application Integration (XAI) component. OUCSS consumes these web services by directly connecting to CCB environment or through the Oracle SOA architecture.

In Oracle Utilities Application Framework V4.2.0.2.0, a new native Web Services facility was introduced that has several advanteages over XAI. This facilitates tracking and management of individual web services using Oracle Enterprise Manager, providing enhanced security features with compliance for WS-Policy standards, as well as providing access to a wide range of authentication and encryption mechanisms, including web service clustering capabilities. The following topics describe how to consume IWS based web services hosted in OUCCB from within the OUCSS application.

Configuration

This section describes the settings and procedures for consuming IWS based web services instead of using XAI based web services. The settings depend on whether CSS is directly connected to CCB, or is connected via Oracle SOA. Both approaches are described below.

If CSS is Directly Connected to CCB

- 1 Change the CCB URLs to point to IWS instead of XAI. For example, the URL http://HOST:PORT/APPROOT/XAIApp/xaiserver/WXViewAccount would be changed to http://HOST:PORT/APPROOT/webservices/WXViewAccount.
- 2 Login to Oracle Enterprise Manager and navigate to Application Deployments > OUCSSPortal.
- **3** Right click on **OUCSSPortal**. Choose **ADF** > **Configure ADF** Connections. to open the **ADF** Connections Configuration page.
- 4 Go to Web Service Connections.
- **5** Select a connection from the list, then click **Edit**.

- 6 Modify the WSDL URL to point to an IWS service.
- 7 Select the same service again and choose Advanced Connection Configuration -> Service Name.
- 8 Modify the Endpoint Address on the Configuration tab with the IWS service URL (e.g., http://HOST:PORT/APPROOT /webservices/WXViewAccount (note: don't include "WSDL" in the URL).
- **9** Select the **Attach/Detach Policies** link. The security policy attached to this IWS service should be configured from this screen.
- **10** Note the **Globally** / **Directly Attached Policies** for this web service. The policy should match the policy configured for this service on the CCB side.
- 11 If the policy declared on the CCB side is different that what is configured here, the policy must be changed. To change the policy, press the **Attach/Detach** button. A popup window will open to allow you to make the change.
- 12 Select the existing policy and click on **Detach**. Find the policy matching the configuration in CCB from within the **Available Policies** panel. If, for example, the policy wss_username_token_client_policy is configured for this service in CCB. When the policy is selected, press the **Attach** button to attach this policy to the service.
- 13 Click OK to return to the parent window. Select the tab 'Override Policy Configuration' and make sure other Security Configuration Details are relevant and correct, (e.g., csf-key), then return to the Configuration tab and press Apply.
- 14 Repeat the procedure for all defined web services.
- **15** Restart the server hosting the OUCSSPortal web application.

If CSS is Connected to CCB Through SOA

- 1 If CSS is connected to CCB through Oracle SOA, then migration from XAI to IWS requires changes on the SOA end. Note that no change is required on the CSS end since CSS will continue to interact with SOA in the same manner it did with XAI.
- 2 When consuming IWS-based services, the SOA endpoint URLs need to be modified to point to IWS instead of XAI. For example, the URL http://HOST:PORT/APPROOT/XAIApp/xaiserver/WXViewAccount would be changed to http://HOST:PORT/APPROOT/webservices/WXViewAccount.
- 3 Changing an endpoint URL to a partner link can be done in SOA by modifying the CSSCCBConfigurationProperties.xml file (which contains links to XAI-based services) from MDS.
- **4** Once the endpoint URLs are changed, the security policy attached to those composites in SOA also need to be changed to match the policy set in IWS.
- **5** To make the changes, log in to Oracle Enterprise Manager on the WebLogic server that hosts the SOA composites, then navigate to the composite that needs to be modified.
- 6 Select the **Policies** tab from panel on the right side of the window.
- 7 Select the policy on the partner link to modify by clicking on 'Attach To/Detach From' and selecting the policy.
- 8 If the attached policy does not match the WS-Policy set on the IWS service, select the policy and press Detach.
- 9 Choose the appropriate policy from the list of policies in the Available Policies panel, then press Attach.
- **10** Save this composite and repeat the procedure for all other composites.
- 11 Restart the SOA server after all composites are modified.

Using Scripts to Change XAI Connections to IWS

Changing XAI connections to IWS can also be done using provided scripts, as described in the following procedures:

If CSS is Directly Connected to CCB

- 1 Verify that InstallProperties.xml is updated as described elsewhere this Installation Guide.
- 2 Set up the environment by performing steps 3 to 6 in the <u>Installing OUCSS Portal</u> section.
- **3** Run the following ant scripts with the additional -DisIWS.enabled parameters to change CCB connections from XAI to IWS. Note that each of the commands is a single line, and may require copying to a text editor and modifying accordingly before pasting into your command window.

If no security annotation is enabled on the CCB IWS service, run the following commands to use the **oracle/wss_http_token_client_policy** OWSM policy for authentication:

On Linux/UNIX:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -DisIWS.enabled=true -l
IWSConnections.log
```

On Windows:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -DisIWS.enabled=true -l
IWSConnections.log
```

If the Username token annotation is enabled in CCB IWS services, run the following command to replace the default policy with the oracle/wss_username_token_client_policy:

On Linux/UNIX:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -DisIWS.enabled=true
-Dpolicy.name=oracle/wss_username_token_client_policy -l IWSConnections.log
```

On Windows:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -DisIWS.enabled=true
-Dpolicy.name= oracle/wss username token client policy -l IWSConnections.log
```

Appendix I

Security Policies

When a composite needs to invoke an edge application web service, an appropriate security policy should be attached to the reference web service of the composite.

• Invoking edge application XAI Service.

When calling an edge application XAI service, the security policy to attach to the reference web service of the composite is oracle/wss_http_token_client_policy.

• Invoking edge application Inbound Web Service (IWS).

When calling an edge application Inbound Web Service (IWS), the security policy to attach to the reference web service of the composite is dependent on the annotation specified in the IWS wsdl.

• If a security policy annotation is specified in the edge application's Inbound Web Service, use the policy specified.

Example 1: The policy defined in the IWS wsdl is UsernameToken. It means oracle/wss_username_token_client_policy should be attached to the composite's reference web service.

Example 2: The policy defined in the IWS wsdl is Https-BasicAuth xml. It means HTTP Basic Authentication over SSL Including Timestamp is required, so oracle/wss_http_token_over_ssl_client_policy should be attached to the composite's reference web service.

```
<wsp:UsingPolicy wssutil:Required="true"/>
- <ns0:Policy wssutil:Id="Wssp1,2-2007-Https-BasicAuth.xml">
- <ns1:TransportBinding>
- <ns0:Policy>
- <ns1:TransportToken>
```

- If no security policy annotation is specified in the edge application's Inbound Web Service and the edge application is using Framework4.3.0.2.0 or higher, a default security policy oracle/wss_http_token_over_ssl_client_policy will be use by the edge application's Inbound Web Service. The default policy can be changed in the edge application's Feature Configuration Menu. Refer to edge application's implementation guide for more information.
- If the edge application is using Framework 4.2.0, a security policy annotation has to be specified in the edge application's Inbound Web Service. In this version of Framework, there is no default security policy specified. oracle/wss_http_token_client_policy has to be specified in the edge application's Inbound Web Service security policy annotation.