## Oracle Utilities Customer Self Service

Installation Guide Release 2.1.0 Service Pack 2 E24861-14

February 2016



Oracle Utilities Customer Self Service Installation Guide

Release 2.1.0 Service Pack 2

E24861-14

February 2016

Copyright © 2011, 2016, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

## **Table of Contents**

Chapter 1	8
Overview	8
Additional Resources	
Abbreviations	9
Chapter 2	10
Installation	10
Software Requirements	10
Pre-Installation Tasks	11
Configuring Edge Applications	11
Domain Topology	11
IE11 Support	11
Installation on SSL-Enabled Servers	11
Cluster Install	11
Standalone Install	12
Installing OUCSS Portal	13
Install Steps	13
Post-Installation Checklist	17
Verify the OUCSS Schema Tables	17
Verify the OUCSS Data Source	
Verify Deployments	
Verify the OUCSS Mail Session	19
Verify Connections	20
Verify the OUCSS Security Credential	21
Post-Installation Steps	23
Reset the WSSAdmin and WSSCSR User Password	

	24
Reload Labels and Lookups from CCB	28
Verify User Registration	31
Verify Admin/CSR Functionality	
Verify WSS Admin	
Verify CSR	
Installing OUCSS Inbound Services	35
Install Steps	35
Post-Installation Checklist	
Verify the OUCSS Schema Tables	
Verify the OUCSS Data Source	
Verify Deployments	
Verify the OUCSS Mail Session	
Verify Connections	
Verify the OUCSS Security Credential	
Post-Installation Steps	40
Create Security Key Store	40
Chapter 3	41
Installing CSS BPEL Flows	41
Software Requirements	41
Pre-Installation Tasks	41
Domain Topology	42
Installation on SSL-Enabled Servers	
Cluster Installation	
Cluster Installation	
	43
Installing the Integration	43 43
Installing the Integration Installing on SOA 11g	
Installing the Integration Installing on SOA 11g Installing on SOA 12c	
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps)	43 43 44 44 46 49
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows	43 43 44 44 46 49 49
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows Data Source Configurations Checklist	43 43 44 44 46 49 49 52
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows Data Source Configurations Checklist Database Outbound Connection Pool	43 43 44 46 49 49 52 52 54
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows Data Source Configurations Checklist Database Outbound Connection Pool Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database	43 43 44 44 46 49 49 52 52 54 55
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows Data Source Configurations Checklist Database Outbound Connection Pool Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database Verifying Composites in Enterprise Manager	43 43 44 44 46 49 49 49 52 52 54 55 55
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows Data Source Configurations Checklist Database Outbound Connection Pool Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database Verifying Composites in Enterprise Manager Verify Security Credentials from EM	
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows Data Source Configurations Checklist Database Outbound Connection Pool. Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database Verifying Composites in Enterprise Manager Verify Security Credentials from EM Verify Attached Policies from EM	43 43 44 44 46 49 49 49 52 52 54 55 55 55 55 55 55
Installing the Integration Installing on SOA 11g Installing on SOA 12c Installing on SOA 11g and SOA 12c (Final Steps) Post-Installation Checklist for Mandatory CSS BPEL Flows Data Source Configurations Checklist Database Outbound Connection Pool Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database Verify Security Credentials from EM Verify Attached Policies from EM Post-Installation Checklist for Optional OUCSS-OUCCB BPEL Flows	

Verify ADF Connection in OUCSS Enterprise Manager	
Updating the MDS Folder	
MDS Deployment Examples	
Custom Schema Changes	
Concrete WSDL Changes for Extensions	
Uninstalling Direct Integrated Flows	
Chapter 4	72
Installing CCB-MDM Integrated Flows	
Software Requirements	
Verify CCB-MDM Flows	
Chapter 5	75
Installing Oracle Utilities Notification Center Flows	75
Software Requirements	
Pre-Installation Tasks	
Domain Topology	
Installation on SSL-Enabled Servers	
Cluster Installation	
Installing the Integration	
Email Configuration	
Configure the Certificates of the Mail Server	81
Sender Address Configuration	
Post Installation Checklist	
Verify the User Messaging Service List	
Verify SMPP Properties	84
Verify Email Properties	
Data Source Configurations Checklist	
JMS Configurations	
JMS Outbound Connection Pool	
Database Outbound Connection Pool	
Verification of the Database Objects	92
Verify the Composites in the Enterprise Manager	92
Verify Security Credentials from EM	
Verify Attached Policies from EM	
Uninstalling the OUNC Flows	94
Chapter 6	97
Uninstalling OUCSS	97
UnInstall OUCSS Portal	
Uninstall OUCSS Inbound Services	
OUCSS Portal is Still Installed	

OUCSS Portal is Already Uninstalled	
Chapter 7	101
Upgrading OUCSS	
Pre-Upgrade Steps	
Upgrade Steps	
Upgrade the OUCSS DB Schema	
Install OUCSS Portal v2.1.0.2	
Install extend.oucss.portal.war	
Import MDS Customizations	
Import Portal Resources	
Chapter 8	106
Upgrading CSS BPEL Flows	
Uninstall a Previous Version and Install a New Version	
Pre-Upgrade Steps	
Upgrade Steps	
Install the New Version in a Different SOA/MDS Partition	
Pre-Upgrade Steps	
Upgrade Steps	
Chapter 9	108
Upgrading Oracle Utilities Notification Flows	108
Pre-Upgrade Steps	
Upgrade Steps	
Appendix A	110
Installing and Configuring Oracle MapViewer	110
Prerequisite Software for MapViewer	
Installing on WebLogic (Recommended)	
Verifying Deployment	
Configuring Map Data	
Creating Default Theme	
Configure OUCSS Map Properties	
Appendix B	114
Installation Properties	114
InstallProperties XPath Descriptions and Examples	
Appendix C	131
CSS Direct BPEL Flows Installation Properties	
InstallProperties XPath Descriptions and Examples	
Appendix D	140
OUNC Installation Properties	140

Appendix E	147
CSF-Key Creation Failure and Workarounds	147
Issue Description	
Workaround 1	
Workaround 2	
Verify OUCSS Security Credential	
Known Issue/Workaround in OUCSS Portal Uninstall	
Appendix F	149
Connection Management	149
Configuration	
Connection Mapping	
Edge Applications	
OUCCB	149
OUNMS	
OUMDM	
OUNC	
CCBorSOA	
MapViewer	
OUCSSMISC	
Connection Sets	
OUCSSCore	
OUCSSCoreCommercial	
Management	
Modifying all Edge Application Connections	
Updating Connections	
Appendix G	152
Account Documents Web Server	
Appendix H	153
XAI to IWS Web Services	
Configuration	
If CSS is Directly Connected to CCB	
If CSS is Connected to CCB Through SOA	
Using Scripts to Change XAI Connections to IWS	
If CSS is Directly Connected to CCB	
If CSS is Connected through SOA 12c	

# **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 3.1.1 Media Pack Install Guide and Implementation Guide	Refer to Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 3.1.1 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 3.1.1 Media Pack with latest patch level.	Refer to Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 3.1.1 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				
Installing Custom Managed Server for OUCSS Portal Whitepaper	Oracle Utilities Customer Self Service section of the <u>Oracle Utilities</u> <u>Documentation</u> area on the Oracle Technology Network (OTN) web site (http://www.oracle.com/technetwork/apps- tech/utilities/documentation/index.html)				

### Note:

This document and the documentation mentioned above are 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 Oracle Utilities Customer Self Service section of the <u>Oracle Utilities Documentation</u> area on the Oracle Technology Network (OTN) web site (http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html).

## **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 11.1.1.8.0 on WebLogic server 10.3.6.
- Oracle Utilities Customer Care and Billing release 2.4.0 Service Pack 3.

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 3.1.1 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 3.1.1 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**).

## **IE11 Support**

For information regarding Microsoft Internet Explorer 11 (IE11) support for Oracle ADF 11g based products (such as WebCenter) please refer to *My Oracle Support* <u>Doc ID 1599898.1</u> - Supportability on Internet Explorer 11 (IE11) with Oracle ADF and My Oracle Support <u>Doc ID 1603498.1</u> - Supportability on Internet Explorer 11 (IE11) with Oracle WebCenter Content on <u>https://support.oracle.com/</u>.

## 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 (<u>http://docs.oracle.com/cd/E29542\_01/doc.1111/e15483/toc.htm</u>).
  - 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 and maintain a separate user.

- 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 Custom Portal managed servers are up and running (AdminServer, WC\_CustomPortal). To setup Managed server for installing OUCSS Portal, see 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 and maintain a separate user.

2 Ensure that required edge applications (CCB, MDM 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.

To start Node Manager (first time only), run the **setNMProps** script to set StartScriptEnabled=true in the *nodemanager.properties* file:

#### **On UNIX/Linux:**

\$MW\_HOME/Oracle\_Common\_Home/common/bin/setNMProps.sh

#### **On Windows:**

%MW\_HOME%\Oracle\_Common\_Home\common\bin\setNMProps.cmd

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

To start the Node Manager (subsequent starts), navigate to WL\_HOME/server/bin, then enter:

#### **On UNIX/Linux:**

./startNodeManager.sh

#### **On Windows:**

./startNodeManager.cmd

When Node Manager starts, it reads the *nodemanager.properties* file with the StartScriptEnabled=true property, and uses the start scripts when it subsequently starts the managed servers. Note that you need to run the setNMProps script only once.

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, as shown in the following image:

B Environment Deployments Services	This page summarizes each server t	that has been configured in the current WebLog	gic Server domain.			
Security Realms	25					
⊕-Interoperability ⊡-Diagnostics	Customize this table					
	Servers (Filtered - More Column	ins Exist)				Showing 1 to 2 of 2 Previous   Next
	Name A	Cluster	Machine	State	Health	Listen Port
	AdminServer(admin)			RUNNING	<mark>≪ ок</mark>	•
How do I	WC_CustomPortal			RUNNING	🖋 ОК	
Create Managed Servers     Clone Servers     Delete Managed Servers     Delete the Administration Server     Start and stop servers	New Gone Delete					Showing 1 to 2 of 2 Previous   Next
System Status						
lealth of Running Servers						
Failed (0) Critical (0) Overloaded (0) Warning (0)						

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**

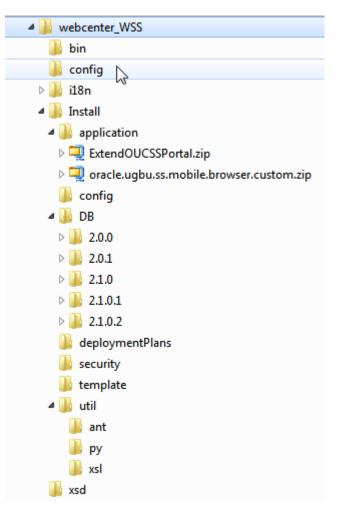
## **Install Steps**

This procedure describes the default installation method for OUCSS Portal that extends WebCenter Portal Framework 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\OUCSS2102

echo %PRODUCT\_HOME%

Echo should return PRODUCT\_HOME as D:\Oracle\Middleware\OUCSS2102

Linux example:

export MW\_HOME=/u01/Oracle/Middleware

export PRODUCT\_HOME=/u01/Oracle/Middleware/OUCSS2102

echo \$PRODUCT\_HOME

Echo should return PRODUCT\_HOME as /u01/Oracle/Middleware/OUCSS2102

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\_10.3\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\_10.3\server\bin\setWLSEnv.cmd

#### **On UNIX/Linux:**

source \$MW\_HOME/wlserver\_10.3/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\_CustomPortal 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 -l 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 -l 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\_Extension.war, OUCSS\_Commercial\_Extension.war and extend.oucss.portal.war* as shared libraries in WebLogic. These libraries are required.
  - OUCSSPortalEAR.ear containing the OUCSS Portal
  - Configure Portal Web Service Connections as per the edge application details configured in InstallProperties.xml.
  - Create Mail Session.

#### **On Windows:**

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

#### **On UNIX/Linux:**

```
ant -f InstallBuild.xml InstallPortal -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l 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 The portal can be accessed using the URL format http://<PortalHost>:<PortalPort>/<PortalContextRoot>. Replace <PortalHost>, <PortalPort> and <PortalContextRoot> with values configured in InstallProperties.xml.

## **Post-Installation Checklist**

Use this following checklist to verify that OUCSS correctly installed.

## Verify the OUCSS Schema Tables

- 1 Log in 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 \* from tab.
  - 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:

	r <sup>®</sup> Administration Console			Q
Change Center	🔒 Home Log Out Preferences 🔤 Record Help	٩		Welcome, weblogic Connected to: portal_doma
View changes and restarts	Home >Summary of JDBC Data Sources			
Configuration editing is enabled. Future changes will automatically be activated as you	Summary of JDBC Data Sources			
modify, add or delete items in this domain.	Configuration Monitoring			
Domain Structure partal_domain	A JDBC data source is an object bound to the JNDI tree that pr data source. This page summarizes the JDBC data source objects that have Customize this table Data Sources (Filtered - More Columns Exist) New Delete			ok up a data source on the JNDI tree and then borrow a database connection from a
XML Entity Caches	🔲 Name 🔅	Туре	JNDI Name	Targets
Mail Sessions	Activities-CustomPortalDS	Generic	jdbc/activities/CustomPortalDS	WC_CustomPortal
1 Frield T3	mds-CustomPortalDS	Generic	jdbc/mds/CustomPortalDS	AdminServer, WC_CustomPortal
How do I	mds-owsm	Generic	jdbc/mds/owsm	AdminServer, WC_CustomPortal
Create JDBC generic data sources	OUCSSDS	Generic	jdbc/OUCSSDS	WC_CustomPortal
Create JDBC GridLink data sources	WebCenter-CustomPortalDS	Generic	jdbc/webcenter/CustomPortalDS	WC_CustomPortal
Create JDBC multi data sources     Delete JDBC data sources	New V Delete	·	•	Showing 1 to 5 of 5 Previous   Next
<ul> <li>Delete JDBC multi data sources</li> </ul>				

## **Verify Deployments**

To verify OUCSS shared library deployment:

- 1 Login in to the Oracle WebLogic Server console as WLS Admin.
- 2 Navigate to <<pre>cortal\_domain\_name>> Deployments.

- 3 Click on the Deployment Order Column Header twice to sort by descending order. You would see the OUCSS Applications with Deployment Order 516, OUCSS Libraries with the Deployment Order 512
- 4 The following deployments should be listed:
  - com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.9.0) [as "Library" deployment]
  - com.oracle.ugbu.ss.commercial.lib (11.1.1, 11.1.1.9.0) [as "Library" deployment]
  - com.oracle.ugbu.ss.residential.lib (11.1.1, 11.1.1.9.0) [as "Library" deployment]
  - extend.oucss.portal (11.1.1, 11.1.1.9.0) [as "Library" deployment]

Change Center		Home Log Out Preferences 🐼 Record Help				Welcome, weblogic Connected to: portal_domain
View changes and restarts	He	one >Summary of XDBC Data Sources >Summary of Deployments >Summary of Mail Seasons >Summary of Deplo	yments			
Configuration editing is enabled. Future	Sum	amary of Deployments				
changes will automatically be activated as you modify, add or delete items in this domain.	Co	ntrol Monitoring				
Domain Structure						
Servers     Chater     Servers     Chater     Virtual Hosts     "Mogatable Targets     "Coherence Sciences     "Coherence Sciences     "Coherence Sciences     "Coherence Sciences     "Cherence Sciences     "Machines	a T P C D	This page digitary a list of Java CE applications and stand-alone application modules that have been insta on using the controls on this page. Is install a new application or module for deployment to targets in this domain, dick the Install button. Instance: this table epioyments	led to this domain. Installed applications and m	odules can be starte	(d, stopped, updated (redeployed), or del	
	1	instal Update Belate Start Stop v				Showing 1 to 62 of 62 Previous   Next
Deployments Services		3 Name	State	Health	Туре	Deployment Order 🧐
B-Messaning	1	extend.oucss.portal(21.1.1,31.1.1.9.0)	Active		Library	518
How do I	1	Extend.ourss.portal(11.1.3,11.1.4.9.5)	Active		Ubrary	518
Install an Enterprise application	1	II II TROUCSSPortal (v2.1.0.2)	Active	🗸 ОК	Enterprise Application	516
Configure an Enterprise application	14	B mOUCSSInboundServices (v2.1.0.2)	Active	a ok	Enterprise Application	516
Update (redeploy) an Enterprise application		Com.oracle.ugbu.ss.lb(11.1.1.11.1.9.0)	Active		Library	512
Start and stop a deployed Enterprise	1				Library	512
Start and stop a deployed Enterprise application Monitor the modules of an Enterprise		com.oracle.ugbu.ss.residential.lib(11.1.1.1.1.9.0)	Active			
Start and stop a deployed Enterprise application     Monitor the modules of an Enterprise application		Sconserade.ugbuss.commercial.ib(11.1.2,11.3.1.9.0)	Active Active		Library	512
Start and stop a deployed Enterprise application Monitor the modules of an Enterprise					Library Library	

**5** Verify that the OUCSSPortal (v2.1.0.2) is deployed as Enterprise Application and is Active.

Change Center	( 🕯 н	ome Log Out Preferences 🐼 Record Help				Welcome, weblogic Connected to: portal_domain
View changes and restarts	Holis	e >Summary of XDBC Data Sources >Summary of Deployments >Summary of Mal Seasons >Summary of D	eployments			
Configuration editing is enabled. Future	Summ	ary of Deployments				
changes will automatically be activated as you modify, add or delete items in this domain.	Cont	Monitoring				
Domain Structure	1					
portal_domain	Thiand	s page displays a list of Java EE applications and stand-alone application modules that have been I using the controls on this page.	installed to this domain. Installed applications and mo	dules can be starte	ed, stopped, updated (redeployed), or de	leted from the domain by first selecting the application name
Servers	То	install a new application or module for deployment to targets in this domain, click the Install butto	B.,			
Clusters Virtual Hosts						
····Moratable Targets	₽ Cu	stomize this table				
Coherence Servers Coherence Servers	Dep	loyments				
	lee	stall [Delete] [Delete] [Start v] [Stop v]				Showing 1 to 62 of 62 Previous   Next
Startup and Shutdown Classes     Deployments	6	Name	State	Health	Туре	Deployment Order 💝
Services     These action	0	Cextend.oucss.portal(11.1.1,11.1.1.9.0)	Active		Library	518
How do I		catend.oucss.portal(11.1.1,11.1.1.9.5)	Active		Ubrary	518
Install an Enterprise application	0	H TOUCSSPortal (V2.1.0.2)	Active	🗸 ок	Enterprise Application	516
Configure an Enterprise application     Update (redeploy) an Enterprise application	1	B m OUCSSInboundServices (v2.1.0.2)	Active	🛩 ок	Enterprise Application	516
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>	6	Com.orade.ugbu.ss.lb(11.1.1.1.1.9.0)	Active	1	Library	512
Monitor the modules of an Enterprise	0	Com.orade.ugbu.ss.residential.lib(11.1.1,11.1.1.9.0)	Active		Library	512
Deploy EIB modules		Com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.9.0)	Artive		Library	512
			Active		Library	500
Install a Web application	12	(1) (1.1,1.9)	Acove		Clorary	200

### 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.

Ma	il Se	ssions			
	Vew	Clone	Delete	howing 1 to 1 of 1	Previous   Next
	] N	lame 🚕	Properties	NC	IDI Name
	] 0	UCSS	mail.smtp.port=25 mail.host=mailserver.domain.com mail.smtp.host=mailserver.domain.com mail.transport.protocol=smtp mail.from=wss4dmin@domain.com	ma	il/OUCSS
	Vew	Clone	Delete	howing 1 to 1 of 1	Previous   Next

## **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 OUCSSPortal(v2.1.0.2) from Application Deployments, then right-click and choose ADF > Configure ADF Connections from the context menu as shown in the following image:

ORACLE Enterprise Manager 11g Fu	sion Middleware Control	Setup
📑 Farm 👻 🌲 Topology		
▼       Farm_portal_domain         ▼       Application Deployments         ▶       Internal Applications         OUCSSINboundServices(v2.1.0.2) (WC_CustomPorted)         ♥       WebLogic Domain         ♥       Portal_domain         ●       AdminServer         ●       UCSSINbouldStrike         ●       WC_CustomPortal         ▶       Metadata Repositories	tal) Home Control Logs Performance Summary Application Deployment Web Services	OUCSSPortal(v2.1.0.2)      Logged in as weblogic Host     Application Deployment      Page Refreshed May 26, 2015     ADF Connections Configuration      Page Refreshed May 26, 2015     ADF Connections Configuration      Page Refreshed May 26, 2015     ADF Connections Configuration      Page Refreshed May 26, 2015     ADF Connection Science 4 Connections.     To create a new connection select a Connection Type from the list below and enter a Connection Name. The Connection Configurations page upd     helds for connection Type     Connection Type     Connection Name     Connection Name
	WebCenter Portal ADF Security MDS Configuration TopLink Sessions System MBean Browser WebLogic Server Administration Console General Information	ADF Performance Configure ADF Business Components Configure ADF Connections Configure ADF (adf-config) ADF Log Configuration Versions ADF Resource Center tion Configuration -

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.

OUCSSPortal(v2.1.0.2)	0		Logged in as weblogic Host
Application Deployment +			Page Refreshed May 26, 2015 5:49:48 AM PDT
DF Connections Configura	tion		
			Related Links 👻 Apply Revert
e this page to view, modify or add ne			
create a new connection, select a Co	onnection Type from the list below and enter a Conne	ction Name. The Connec	tion Configurations page updates with fields for configuring the selected connection type.
Create Connection			
Connection Type	¥		
Connection Name Web S	ervice Connection		
Ener Ener	ify properties for SSLabelService connection.		
SLD			A second s
	advanced configuration of the Web Service connection ection and choose "Advanced Connection Configurati		
	iccum and choose. Advanced connection configuration		WSDL URL of the WebService Connection
URL Connections	WSDLURL http://	soa-infra/services/O	UCS5/OUCSSOUCCBWXGetSelf5
🥜 Edit 🛛 🙀 Delete 💦 🖓	fault Service Name { http://ouaf.oracle.com/spl/XAIX	app/yaisap/ar/W/CatEa	IFCaprical shale WYCatCalfCapric
Connection Name	and betwee name [ (nep.)] dan ordere compapitions	appinalserver/www.deese	
oucssOutageMapViewer			OK Cancel
ourssouragenaperener			
V Web Service Connections			
🥒 Edit 📑 Delete Advanced Co	oppertion Configuration -		
Connection Name	Default Service Name	WSDL URL	
	fuceball agentermenterend abilita recebblicataes real	areepal.	y and multiple mean or each or each or each multiple second desired for each or each multiple second desired and
OUCSSUploadProcessService	{http://xmins.oracle.com/OUCSSUploadDocume	http:/	soa-infra/services/OUCSS/OUCSSUploadDocumentEBF/oucssuploaddocumentprocess_client_ep?WSDL
	{http://ouaf.oracle.com/spl/XAIXapp/xaiserver/	http:/	soa-infra/services/OUCSS/OUCSSOUCCBWXGetSelfServiceLabelsEBF/OUCSSOUCCBWXGetSelfServiceLa soa-infra/services/OUCSS/OUCSSOUCCBWXRateAnalysisEBF/OUCSSOUCCBWXRateAnalysis_Client_ep?
		http://	
SSRateAnalysisService	{http://ouaf.oracle.com/spl/XAIXapp/xaiserver/	had been	
SSLabelService SSRateAnalysisService PrepaidBalanceAndChargesService SSPormsListService	<pre>{http://ouaf.oracle.com/spl/XAIXapp/xaiserver/ {http://ouaf.oracle.com/spl/XAIXapp/xaiserver/ {http://ouaf.oracle.com/spl/XAIXapp/xaiserver/ {http://ouaf.oracle.com/spl/XAIXapp/xaiserver/</pre>	http://	soa-infra/services/OUCSS/OUCSSOUCCBWXRetnievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetric soa-infra/services/OUCSS/OUCSSOUCCBWXRetrice/EBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSS/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSS/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSS/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrice/ soa-infra/services/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCBWXRetrievePPBBAlanceAndChargesEBF/OUCSSOUCBWXRetrieve

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 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, as shown in the following image:

🕴 Farm 👻 🕌 Topology						
] -		🛅 WebLogic Do	main			
Farm_portal_domain Application Deployr	mente	Taxaat		Turne		
<ul> <li>Application Deploying</li> <li>WebLogic Domain</li> <li>P 1 portal_domain</li> </ul>		Target portal_domain		Type Oracle WebLogic Domain	Full Name /Farm_portal_domain/portal_domain	
Metadata Reposito	Home					
	Control	•				
	Logs	•				
	Port Usage					
	Application Deployment	•				
	Web Services	•				
	ADF Domain Configuration					
	Security	<ul> <li>Credentials</li> </ul>	N	1		
	Metadata Repositories	Security Provider	Configuration			
	JDBC Data Sources	Application Policie	5			
	System MBean Browser	Application Roles				
	WebLogic Server Administration Console	Keystore				
	General Information	System Policies				
		Audit Policy				

 Under Credentials select and expand oracle.wsm.security. OUCSS\_XAI\_BASIC\_KEY, OUCSS\_INTG\_BASIC\_KEY, and OUCSS\_OUNC\_BASIC\_KEY should be present, as shown in the following image:

portal_domain 🕡	Logged in as <b>weblogic</b>
WebLogic Domain 🗸	Page Refreshed Apr 9, 2014 4:37:14 PM PDT 🚺

#### Credentials

A credential store is the repository of security data that certify the authority of entities used by Java 2, J2EE, and ADF applications. Applications can use the Credential Store, a single, consolidated service provider to store and manage their credentials securely.

oracle.wsm.security       Image: Security         Oucss_INTG_BASIC_KEY       Password         Oucss_OUNC_BASIC_KEY       Password         Oucss_OUNC_BASIC_KEY       Password         Oucss_OUNC_BASIC_KEY       Password         Oucss_AI_BASIC_KEY       Password         Oucss_AI_BASIC_KEY       Password         Oucss_AI_BASIC_KEY       Password         Oucss_INTG_BASIC_KEY       Password         Oucss_AI_BASIC_KEY       Password	redential  OffersService.com.oracle.ugbu.ss.billing.offer	Туре	Description
OUCSS_OUNC_BASIC_KEY       Password       OUCSS_OUNC_BASIC_KEY         OUCSS_XAI_BASIC_KEY       Password       OUCSS_XAI_BASIC_KEY         OUCSSInboundServices.oracle.ugbu.ss       OUCSS_XAI_BASIC_KEY			
OUCSS_XAI_BASIC_KEY     Password     OUCSS_XAI_BASIC_KEY       OUCSSInboundServices.oracle.ugbu.ss     OUCSS_XAI_BASIC_KEY	OUCSS_INTG_BASIC_KEY	Password	OUCSS_INTG_BASIC_KEY
OUCSSInboundServices.oracle.ugbu.ss	OUCSS_OUNC_BASIC_KEY	Password	OUCSS_OUNC_BASIC_KEY
	OUCSS_XAI_BASIC_KEY	Password	OUCSS_XAI_BASIC_KEY
OUCSSTFPortal.oracle.ugbu.ss	OUCSSInboundServices.oracle.ugbu.ss		
	OUCSSTFPortal.oracle.ugbu.ss		

#### ORACLE Enterprise Manager 11g Fusion Middleware Contr

## **Post-Installation Steps**

### **Reset the WSSAdmin and WSSCSR User Password**

Random password is used 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 if you used the ldif file to import the seeded users and groups to embedded LDAP. 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.

#### ORACLE WebLogic Server® Administration Console

Change Center	🕜 He	ome Log Out Preferences 🚵 Record Help	<b>Q</b>				
View changes and restarts	Home >Summary of Security Realms >myrealm >Users and Groups						
Configuration editing is enabled. Future changes will automatically be activated as you		gs for myrealm					
modify, add or delete items in this domain.	Confi	iguration Users and Groups Roles and Policies Cre	dential Mappings Providers Migration				
Domain Structure	User	rs Groups					
portal_domain 	This	s page displays information about each user that has been co	onfigured in this security realm.				
-Security Realms -Interoperability -Diagnostics		stomize this table					
	Use	ew Delete					
		Name 🏟	Description				
		OracleSystemUser	Oracle application software system user.				
		weblogic	This user is the default administrator.				
How do I		WSSAdmin	Admin of WSS				
Manage users and groups		WSSCSR	CSR for WSS				
Create users	N	ew Delete	· · · · · · · · · · · · · · · · · · ·				
Modify users							
Delete users							

**4** Update the passwords from the the Passwords tab.

ORACLE WebLogic Server®	Administration Console	Q
Change Center	🟦 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: portal_domain
View chargings and restarts	Home	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for WSSAdmin	
modify, add or delete items in this domain.	General Passwords Attributes Groups	
Domain Structure	Save	
portal_domain 안-Environment ···Oeployments 단·Security Realms 단·Interoperability 면·Diagnostics	Use this page to change the password for the selected user.  * Indicates required fields  * New Password:  Confirm New Password:	bassword of this user. More Info
	Save	
How do I 🗉		
Create users		
Modify users		
Delete users		

## **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.

			Welco	me WSSAdmin   Administration
ur Company				
lome Account(s) Details <del>v</del> I	Multi-Account 🔻	Notifications - Outages - New Customer User Profile Forms - Old Po	rtlets 🔻	Admin 🔻
				Customer Search
				<ul> <li>Configuration Options</li> </ul>
				Resources
Actions 👻 🍄 💥				Access
Configuration Option	Туре	Value Valu	Jes Looki	Security
installation.owner.flag	Freeform	CM	100 200M	
edgeapplication.ccb.datasource	Freeform	C1		Edge Application
ookups.webservice.status	Freeform	ACTIVE		Line Of Business
mail.session.jndi.name	Freeform	mail/OUCSS		Portlets
webcenter.register.url	Freeform	http://		
webcenter.login.url	Freeform	http://		Language
/alidate.regex.email	Freeform	[a-zA-Z0-9%+-]+@[a-zA-Z0-9]+\.[a-zA-Z]{2,4}		Labels
validate.regex.username	Freeform	[a-zA-Z0-9_]*		Lookups
validate.length.password.min	Freeform	8		Messages
validate.length.password.max	Freeform	12		-
validate.regex.password	Freeform	[a-zA-Z0-9]*		Train
oucss.default.locale	Freeform	en		<ul> <li>Offers</li> </ul>
rollback.on.failed.email	Freeform	Υ		
account.list.max.rows	Freeform	2		
account.list.page.size	Freeform	10		
max.rows.premise.search	Freeform	10		
default.customerclass.parm	Freeform	R		
default.personbusiness.parm	Freeform	P		
outage.map.base.map	Freeform	NAVTEQ_SF.ELOCATION_MAP		
outage man color theme	Freeform	OUCSE OUTLOE ADEAS		

#### 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.	2.1.0.2
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
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-Z0-9%+-]+@[a-zA-Z0- 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_]*

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.	γ
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
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.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})\$
New 2.1.0.2 Properties		
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	Flag to indicate if noticification center are enabled. Set to false if notification center is not setup.	true

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

Multi-Account 🔻	Notifications 👻 Outages 👻 New Customer User Profile Forms 👻 C	Old Portlets 👻 Ad	min 👻
Туре	Value	Values Lookup	Selected Value
	-		
	-		
	_		
Freeform	10		
Freeform	10		
		Type     Value       Freeform     4       Freeform     CITY       Freeform     CIST       Freeform     2.1.0.2       Freeform     true       Freeform     5       Freeform     10       Freeform     15       Freeform     140       Freeform     5       Freeform     5       Freeform     5       Freeform     30       Freeform     300       Freeform     0123456789abcdefghijklmnopqrstuvvxyz\$#*_ABCDEFGHIJKLMNOPQ       Freeform     -81.70       Freeform     40.69	Freeform       4         Freeform       CITY         Freeform       C1ST         Freeform       2.1.0.2         Freeform       true         Freeform       5         Freeform       10         Freeform       15         Freeform       140         Freeform       5         Freeform       300         Freeform       300         Freeform       0123456789abcdefghijklmnopqrstuvvoyz\$#*_ABCDEFGHIJKLMNOPQ         Freeform       -81.70         Freeform       40.69

## **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

our Company		Welcome WSSAdmin   Administration   Log
Home Account(s) Details <del>-</del> Multi-Account <del>-</del> Noti	fications 👻 Outages 👻 New Customer 🛛 User Profile 🛛 Form	ms マ Old Portlets マ Admin マ
		Customer Search
		Configuration Options
		Resources
		Access
Actions 👻 📑 💥		Security
Label Code	Description	Edge Application
ACCEPT_BTN_LBL	Accept	Line Of Business
ACCESSROLE_MAINTENANCE_LBL	Access Role Maintenance	Portlets
ACCESS_PERMISSIONS	Type of Access	
ACCESS ROLE CD LBL	Access Role Code	Language
ACCESS_ROLE_LBL	Access Role	<ul> <li>Labelş</li> </ul>
	Access Role Account Access	
ACCESS_ROLE_LBL		Lookups
ACCESS_ROLE_LBL ACCOUNT_ACCESS_LBL	Account Access	

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

#### 3 Click Actions > Reload Labels as shown in the following image:

Your Company	Welcome WSSAdmin   Administration   Logout
Tag Line for Yoll-Suppany	
Home Account(s) Details - Multi-Account - Notifications - Outages - New Customer User Profile Forms - Old Port	lets 🔻 Admin 👻

Actions 👻 📑 🐹		
Li 🍄 Create	Description	
A 💥 Delete	Accept	
	Access Role Maintenance	
A B Show Query By Example	Type of Access	
A Reload Labels	Access Role Code	
ACCESS_ROLE_L	Access Role	
ACCOUNT_ACCESS_LBL	Account Access	
ACCOUNT_ACTION_LBL	Action	
ACCOUNT_ADDRESS_INFO_UPDATED	Account Address Information updated.	
ACCOUNT_AUTOPAY_UPDATED	Account Automatic Payment updated.	

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

Antione - 🖓 😒

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.

Line for Your       Admin         Home       Account(s)       Details < Multi-Account < Notifications < Outages < New Customer       User Profile       Forms < Old Portlets        Admin          Actions	ur Company		Welc	ome WSSAdmin   Administration   L
Actions ▼ Y       ● Customer Search         Actions ▼ Y       ● Configuration Options         Resources       ● Access         Action S       ● Edge Application         Action FLG       Action         Action FLE_TYPES       ● Ine Of Business         ALLOWED_FILE_TYPES       ● Ortilets         BILL_ROUTE_TYPES       ● Ortilets         BILL_ROUTE_TYPES       ● en::BILL_ROUTE_TYPES         BOOLEAN_TYPE       ● Configuration Type         CARD_TYPES       ● n::CARD_TYPES         CONFIG_VALUE_TYPE_FLG       Configuration Type         DATA_SRC_FLG       Data Source         PORT       1 ISSUE;				
Actions v v v       Configuration Options         Actions v v       Security         Lookup Code       Description         Action Action       Active Lookup Value Count       Action Value         ACTION_FLG       Action       Action       BMP; DOC; (         ALLOWED_FILE_TYPES       en::BILL_ROUTE_TYPES       Uine Of Business       Interest of Business         BIOL_ROUTE_TYPES       en::BILL_ROUTE_TYPES       Portlets       Interest of Business         BOOLEAN_TYPE       Gonfiguration Type       2 false; true;       Language         CARD_TYPES       en::CARD_TYPES       4 CIAM; CIDV       Labels         CONFIG_VALUE_TYPE_FLG       Configuration Type       2 FREEFORM;       Labels         CONFIG_VALUE_TYPE_FLG       Data Source       2 C1; S5;       Okups         FORMTYPE       Form Type       Type       1 ISSUE;       Messages	Home Account(s) Details <del>-</del>	Multi-Account - Notifications - Outages - New Custo	omer User Profile Forms 👻 Old Portlets 👻	Admin 🕶
Actions V Value Cookup Value Count Lookup Value Lookup Code Description Active Lookup Value Count Lookup Valu ACTION_FLG Action 3 ADD; READ; Edge Application ALLOWED_FILE_TYPES_FLG Allowed file types for attachment 8 BMP; DOC; C BILL_ROUTE_TYPES en::BILL_ROUTE_TYPES 4 EMAIL; EMA BOOLEAN_TYPE_FLG Boolean 2 false; true; CARD_TYPES en::CARD_TYPES 6 En::CARD_TYPES 4 CIAM; CIDV E Labels CONFIG_VALUE_TYPE_FLG Configuration Type 2 FREEFORM; DATA_SRC_FLG Data Source 2 C1; SS; FORMTYPE Form Type 1 ISSUE;				Customer Search
Actions ▼ ♪       Access       Access         Actions ▼ ♪       Security       Edge Application         Lookup Code       Description       Active Lookup Value Count Lookup Valu       Edge Application         ACTION_FLG       Action       3 ADD; READ;       Line Of Business       Interest of Business         ALLOWED_FILE_TYPES       en::BIL_ROUTE_TYPES       en::BLL_ROUTE_TYPES       ● Portlets       ?         BOOLEAN_TYPE_FLG       Boolean       2 false; true;       ● Language         CARD_TYPES       en::CARD_TYPES       ● Lookups       ● Lookups         DATA_SRC_FLG       Data Source       2 C1; S5;       ● Lookups         FORMTYPE       Form Type       Form Type       1 ISSUE;       ● Messages				Configuration Options
Actions v low       Security       Security         Lookup Code       Description       Active Lookup Value Count Lookup Value       Edge Application         ACTION_FLG       Action       3 ADD; READ;       Edge Application         ALLOWED_FILE_TYPES_FLG       Allowed file types for attachment       8 BMP; DOC; (       Portlets         BILL_ROUTE_TYPES       en::BILL_ROUTE_TYPES       6 Dolean       2 false; true;       Language         BOOLEAN_TYPE_FLG       Configuration Type       2 FREEFORM;       Lookups       Elookups         CONFIG_VALUE_TYPE       Data Source       2 C1; S5;       Lookups       Messages         FORMTYPE       Form Type       Instrue;       Messages       Messages				Resources
Actions v       Security       Security         actions v       Description       Active Lookup Value Count       Lookup Value       edge Application         ACTION_FLG       Action       3 ADD; READ;       eline Of Business       in of Business         ALLOWED_FILE_TYPES_FLG       Allowed file types for attachment       8 BMP; DOC; (       Portlets       Portlets         BILL_ROUTE_TYPES       en::BILL_ROUTE_TYPES       Boolean       2 false; true;       Language         SOOLEAN_TYPE_FLG       Boolean       C1AM; C1DV       Labels       Edels         CONFLG_VALUE_TYPE_FLG       Configuration Type       2 FREEFORM;       Lookups       Edokups         CONFLG_VALUE_TYPE       Data Source       2 C1; S5;       Messages       Messages       Messages				Access
Lookup Code       Description       Active Lookup Value Count Lookup Value       Edge Application         ACTION_FLG       Action       3 ADD; READ;       Line Of Business         ALLOWED_FILE_TYPES_FLG       Allowed file types for attachment       8 BMP; DOC;       Portlets         BILL_ROUTE_TYPES       en::BILL_ROUTE_TYPES       4 EMAIL; EMA         BOOLEAN_TYPE_FLG       Boolean       2 false; true;       Language         CARD_TYPES       en::CARD_TYPES       4 CIAN; CID       Labels         CONFIG_VALUE_TYPE_FLG       Configuration Type       2 FREEFORM;       Lookups         DATA_SRC_FLG       Data Source       2 C1; S5;       Messages       Messages         FORMTYPE       Form Type       1 ISSUE;       Messages       Messages	Actions 👻 🔯 💥			
ACTION_FLG       Action       3 ADD; READ;       Line Of Business         ALLOWED_FILE_TYPES       Allowed file types for attachment       8 BMP; DOC;       Portlets         BILL_ROUTE_TYPES       en::BILL_ROUTE_TYPES       4 EMAIL; EMA       Language         BOOLEAN_TYPE_FLG       Boolean       2 false; true;       Language         CARD_TYPES       en::CARD_TYPES       4 C1AM; C1DV       Labels         CONFIG_VALUE_TYPE_FLG       Configuration Type       2 FREEFORM;       Lookups         DATA_SRC_FLG       Data Source       2 C1; S5;       Messages         FORMTYPE       Form Type       1 ISSUE;       Messages	<b>_</b>	Description	Active Lookup Value Count Lookup Valu	Edge Application
ALLOWED_FILE_TYPES_FLG       Allowed file types for attachment       8 BMP; DOC; ( Portlets ;         BILL_ROUTE_TYPES       en::BILL_ROUTE_TYPES       4 EMAIL; EMA         BOOLEAN_TYPE_FLG       Boolean       2 false; true;         CARD_TYPES       en::CARD_TYPES       4 C1AN; C1D         CONFIG_VALUE_TYPE_FLG       Configuration Type       2 FREEFORM;         DATA_SRC_FLG       Data Source       2 C1; SS;         FORMTYPE       Form Type       1 ISSUE;				
BILL_ROUTE_TYPES       en::BILL_ROUTE_TYPES       4 EMAIL; EMA         BOOLEAN_TYPE_FLG       Boolean       2 false; true;       Language         CARD_TYPES       en::CARD_TYPES       4 C1AM; C1DV       Labels         CONFIG_VALUE_TYPE_FLG       Configuration Type       2 FREEFORM;       Lookups         DATA_SRC_FLG       Data Source       2 C1; S5;       Messages         FORMTYPE       Form Type       1 ISSUE;       Messages	-	Allowed file types for attachment		
BOOLEAN_TYPE_FLG       Boolean       2 false; true;       Language         CARD_TYPES       en::CARD_TYPES       4 C1AM; C1D       Labels         CONFIG_VALUE_TYPE_FLG       Configuration Type       2 FREEFORM;       Lookups         DATA_SRC_FLG       Data Source       2 C1; S5;       Messages         FORMTYPE       Form Type       1 ISSUE;       Messages				
CONFIG_VALUE_TYPE_FLG     Configuration Type     2 FREEFORM;     • Lookups       DATA_SRC_FLG     Data Source     2 C1; S5;       FORMTYPE     Form Type     1 ISSUE;	BOOLEAN TYPE FLG	Boolean	2 false; true;	Language
DATA_SRC_FLG Data Source 2 C1; S5; FORMTYPE Form Type 1 ISSUE; Messages	CARD_TYPES	en::CARD_TYPES	4 C1AM; C1D\	Labels
DATA_SRC_FLG Data Source 2 C1; S5; FORMTYPE Form Type 1 ISSUE; Messages		Configuration Type	2 FREEFORM;	
FORM TYPE FORM Type 1 ISSUE;	CONFIG_VALUE_TYPE_FLG			- Lookupa
GREEN_BUTTON_DAYS List of Days listed to download green button data. 3 15; 30; 45; • Train		2	2 C1; SS;	2
	DATA_SRC_FLG	Data Source		Messages

Copyright  $\circledast$  1997, 2013, Oracle and/or its affiliates. All rights reserved.

#### **5** Click **Actions > Reload Lookups**.



Li 🍄 Create	Description	Active Lookup Value Count	Lookup Value List	
A 💥 Delete	Action	3	ADD; READ; UPDATE;	
	Allowed file types for attachment	8	BMP; DOC; GIF; JPEG; JPG; PDF; PNG; TXT;	
B 😽 Show Query By Example	en::BILL_ROUTE_TYPES	4	EMAIL; EMAIL2; FAX; POSTAL;	
Reload Lookups	Boolean	2	false; true;	
C Flush Cache	en::CARD_TYPES	4	C1AM; C1DV; C1MC; C1VS;	
	Configuration Type	2	FREEFORM; LOOKUP;	
DATA_SRC_FLG	Data Source	2	C1; SS;	
ORMTYPE	Form Type	1	ISSUE;	
GREEN_BUTTON_DAYS	List of Days listed to download green button data.	3	15; 30; 45;	

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

6 Restart the Portal Managed server using WLS Admin Console or run the following command from product\_home\bin 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 -l 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'.

Your Company	
Home Login Outages - <b>Register</b> Forgot User ID/Password?	
* User Name * First Name	
* Last Name * Email Address	
* Confirm Email Address	
Convisible © 1997-2012, Ocada and/or its offiliator, All rights reconved	Register

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

**3** An information screen should appear to let you know the user was successfully created, as shown in the following image.

Your Company	
Tag Line for Your Ampany	
Home Login Outages 🕶	Register Forgot User ID/Password?
	i Information Created user successfully. Please confirm your registration using the link sent to your email address at the com

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

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'.

Home Login Outages - Register Forgot User ID/Password?
* Password
* Confirm Password
Submit

**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.

Your Company			
Home Login Outages - Register Forgo	User ID/Password?		
User Name wssadmin			
Password ••••••			
Login			
Copyright © 1997, 2013, Oracle and/or its affiliates. A	Il rights reserved.		

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 as shown in the following image. To perform initial enrollment, proceed with the next step.

Your Company Tag Line for your - company	Welcome Administration   Logout
Home Account(s) Multi-Account - Outages - New Customer User Profile	
No Accounts to display	
Enroll Request access to an account	

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

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**.

Enroll to an Account	
3	Enter account ID to add.
Account Id *	
Enroll Cancel	

Enroll to an Account		
Account Id	Verification Information	
Social security number		999-99-9999
Home Phone		(999) 999-9999
	Confirm Cancel	

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

### 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.

		w	elcome WSSAdmin   Administration   Logout
Your Company			
Tag Line for Your-company			
Home Account(s) Details - Multi-Account - Notifications - Outages	<ul> <li>New Customer User Profile</li> </ul>	Forms 👻 Old Portlets	s 🔻 Admin 🔻
			Customer Search
Customer Search			Configuration Options
User Id		Search	Res Resources
First Name			Access
Last Name			Security
Email Address			Edge Application
			Line Of Business
Account Search			Portlets
Account Id		Search	Language
Account in		Jearen	Labels
Name and Address Search			Lookups
			Messages
Name		Search	Res Train
Address			<ul> <li>Offers</li> </ul>
City			
Postal			
Search Results			

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

### 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.

	Welcome WSSCSR   Administration   Logout
Your Company	
Tag Line for Your - Company	
Home Account(s) Details - Multi-Account - Notifications - Outages	▼ New Customer User Profile Forms ▼ Old Portlets ▼ Admin ▼
······	Customer Search
Customer Search	
User Id	Search Reset
First Name	
Last Name	
Email Address	
Account Search	3
Account Id	Search Reset
Name and Address Search	
Name	Search Reset
Address	
City	
Postal	
Search Results	

Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

## **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\_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 -l
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 (11.1.1, 11.1.1.9.0) [as "Library" deployment]
- com.oracle.ugbu.ss.commercial.lib (11.1.1, 11.1.1.9.0) [as "Library" deployment]
- com.oracle.ugbu.ss.residential.lib (11.1.1, 11.1.1.9.0) [as "Library" deployment]
- extend.oucss.portal (11.1.1, 11.1.1.9.0) [as "Library" deployment]
- com.oracle.ugbu.ss.rest.lib(11.1.1, 11.1.1.9.0) [as "Library" deployment]
- jax-rs (1.1, 1.9) [as "Library" deployment]

	inistration Console				C
Chauge Center	Home Log Out Preferences 🔤 Record Help			Welcome,	weblogic Connected to: portal_doma
View changes and restarts	Home >Summary of JDBC Data Sources >Summary of Deployments >Summary of Mail Sessions >Summary of Deploy	ments			
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	mmary of Deployments Control Monitoring				
Domain Structure portal domain  Environment  -Servers  -Clusters  -Virtual Hosts -Wigratable Targets -Coherence Servers -Coherence Clusters	This page displays a list of Java EE applications and stand-alone application modules that have been install deleted from the domain by first selecting the application name and using the controls on this page. To install a new application or module for deployment to targets in this domain, click the Install button. Customize this table Deployments	ed to this domain.	. Installed appl	lications and modules can be star	ted, stopped, updated (redeployed), or
Machines Work Managers	Install Update Delete Start Stop v			:	Showing 1 to 62 of 62 Previous   Next
	Name	State H	Health	Туре	Deployment Order 🃎
Services     Description	<pre>extend.oucss.portal(11.1.1,11.1.1.9.0)</pre>	Active	1	Library	518
How do I	<pre>extend.oucss.portal(11.1.1,11.1.1.9.5)</pre>	Active	1	Library	518
Install an Enterprise application	UCSSPortal (v2.1.0.2)	Active 🗳	🗸 ОК	Enterprise Application	516
Configure an Enterprise application     Update (redeploy) an Enterprise application	UUCSSInboundServices (v2.1.0.2)	Active 🗳	🖉 ок	Enterprise Application	516
<ul> <li>Start and stop a deployed Enterprise application</li> </ul>	Com.oracle.ugbu.ss.lib(11.1.1,11.1.1.9.0)	Active	1	Library	512
Monitor the modules of an Enterprise	com.oracle.ugbu.ss.residential.lib(11.1.1,11.1.1.9.0)	Active	1	Library	512
<ul> <li>application</li> <li>Deploy EJB modules</li> </ul>	com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.9.0)	Active	1	Library	512
Install a Web application	ars(1.1,1.9)	Active	1	Library	500
	com.oracle.ugbu.ss.rest.lib(11.1.1,11.1.1.9.0)	Active	1	Library	500

#### 4 Verify that the OUCSSInboundServices (v2.1.0.2) is deployed as Enterprise Application and is Active.

Chauge Center	Ê	Ho	me Log Out Preferences 🔤 Record Help			Welcome,	weblogic Connected to: portal_dom
View changes and restarts	н	lome	>Summary of JDBC Data Sources >Summary of Deployments >Summary of Mail Sessions >Summary of Deploym	rents			
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.			ry of Deployments				
Domain Structure  Sortal_domain  Ferviorment  Servers  Custers  Wirtual Hosts  Migratable Targets  Coherence Servers		dele To ir Cust	page displays a list of Java EE applications and stand-alone application modules that have been installe ed from the domain by first selecting the application name and using the controls on this page. stall a new application or module for deployment to targets in this domain, click the Install button. romize this table	d to this doma	in. Installed ap	plications and modules can be sta	rted, stopped, updated (redeployed), or
Coherence Clusters Machines Work Managers		Inst	ali Update Delete Start v Stop v				Showing 1 to 62 of 62 Previous   Next
Startup and Shutdown Classes DeploymentsServices	ſ		Name	State	Health	Туре	Deployment Order ♡
Services     Messaning			<pre>extend.oucss.portal(11.1.1,11.1.1.9.0)</pre>	Active		Library	518
low do I 🗉			extend.oucss.portal(11.1.1,11.1.1.9.5)	Active		Library	518
Install an Enterprise application			OUCSSPortal (v2.1.0.2)	Active	🖋 ок	Enterprise Application	516
Configure an Enterprise application Update (redeploy) an Enterprise application			GUCSSInboundServices (v2.1.0.2)	Active	🖋 ок	Enterprise Application	516
Start and stop a deployed Enterprise application			Com.oracle.ugbu.ss.lib(11.1.1,11.1.1.9.0)	Active		Library	512
Monitor the modules of an Enterprise			Com.oracle.ugbu.ss.residential.lib(11.1.1,11.1.1.9.0)	Active		Library	512
application Deploy EJB modules			Com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.9.0)	Active		Library	512
Install a Web application			<b>(</b> jax-rs(1.1,1.9)	Active		Library	500
	- 1 H K	_		-			

## Verify the OUCSS Mail Session

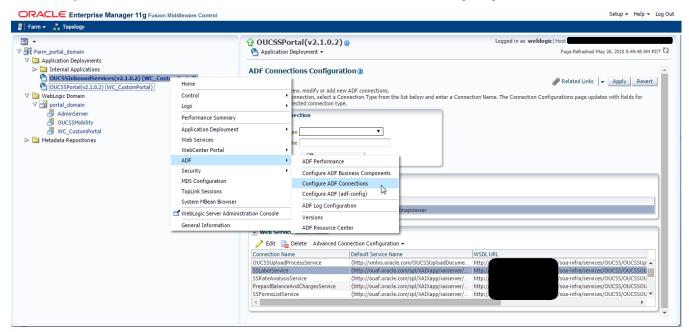
Verify the OUCSS Mail Session as described in Section Verify the OUCSS Mail Session of OUCSS Portal Install and targeted to managed server/cluster associated with Inbound Services.

## **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(v2.1.0.2) from Application Deployments, then right-click and choose ADF > Configure ADF Connections from the context menu as shown in the following image:



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.

	1g Fusion Middleware Control				Setup 🔻 Help 🔫 Lo
🗄 Farm 👻 👗 Topology					
∃ ▼ / ∰ Farm_portal_domain		OUCSSInboundServices(     Application Deployment +	v2.1.0.2) @	Logged in as weblogic	Host Page Refreshed May 26, 2015 6:32:56 AM PD
✓         Application Deployments           ✓         Internal Applications           ✓         OUCSSTINIOUNGServices(v2.1.0.2)           OUCSSPortal(v2.1.0.2) (WC_CustomPc           ✓         WebLogic Domain           ✓         ✓           ✓         Internal domain		ADF Connections Configurati			
AdminServer					
🕞 🦳 Metadata Repositories	For advanced config connection and cho WSDL	ose "Advanced Connection Configuration".	/services/OUCSS/OUCSSOUCCBWXAccountC	elect your SDL URL of the WebService Connecti OK Cancel	on ]
		✓ Web Service Connections			

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

ORACLE Enterprise Manag	ger 11g Fusion Middleware Control				Setup 🕶 Help 🕶 Log Out
📑 Farm 👻 👗 Topology					
	portal_domain () → WebLogic Domain → Credentials A credential store is the repository of security data th service provider to store and manage their credential >) Credential Store Provider		ority of entities used by Java 2, J2EE,		Logged in as weblogic age Refreshed Apr 9, 2014 4:38:44 PM PDT
		X Delete (	Credential Key Name Description	۲	
	OffersService.com.oracle.ugbu.ss.biling.off				
	V 🖄 oracle.wsm.security				
	💎 sign-csf-key	Password			
	🕆 enc-csf-key	Password			
	COUCSS_INTG_BASIC_KEY	Password	OUCSS_INTG_BASIC_KEY		
	😵 keystore-csf-key	Password			
-	OUCSS_OUNC_BASIC_KEY	Password	OUCSS_OUNC_BASIC_KEY		
	OUCSS_XAI_BASIC_KEY	Password	OUCSS_XAI_BASIC_KEY		
	OUCSSInboundServices.oracle.ugbu.ss				
	DUCSSTFPortal.oracle.ugbu.ss				

## **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/6/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 home where the producer application will be deployed.

# **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:

- SOA Suite 11.1.1.7.0 on WebLogic Server 10.3.6.
- 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 2.4.0.3 installed on an Oracle database.
- Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 3.1.1 Media Pack with the latest patches.
- Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Network Management System Release 3.1.1 Media Pack.

## **Pre-Installation Tasks**

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

- Ensure that the Oracle SOA Suite 11.1.1.7.0 on WebLogic Server 10.3.6 is installed and running.
- Make the following changes in the <DomainHome>/bin folder setDomainEnv.sh file:

```
USER_MEM_ARGS=-Xms256m -Xmx1024m -XX:CompileThreshold=8000 -XX:PermSize=128m -XX:MaxPermSize=512m
```

- Login into the Weblogic Administration Console using the URL http://admin\_server\_hostname:port/console
- Expand the Environment Tree available on the left-hand panel of the Admin Console.
- Click on Servers.
- For each Server (e.g., soa\_server1, and bam\_server), click on the server name, then then click the Configuration tab.
- Go to the **Server Start** tab on the top of the page.
- Add the memory values in the Arguments field:

-Xmx2048m -Xms2048m

- Click Save.
- For more information on SOA, refer to the documentation at http://www.oracle.com/technetwork/middleware/soasuite/documentation/soallgdoc-2212842.html#111170.
- Log in to the WebLogic console to confirm there are no changes in Pending Activation status.
- 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 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 *\$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 <a href="http://docs.oracle.com/cd/E21764">http://docs.oracle.com/cd/E21764</a> 01/core.1111/e12036/install.htm#SOEDG163

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\_wl\_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**

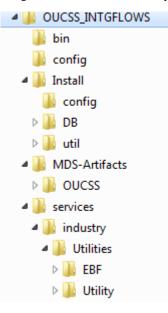
If soa\_server1 is the only managed server:

- 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 11g

1 Download OUCSS\_INTGFLOWS.zip from the Oracle Software Delivery Cloud (edelivery.oracle.com) and 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.



**2** Set the following environment variables:

Variable	Example
Unix/Linux and Windows OS	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware

WL_HOME	XXX/Middleware
PRODUCT_HOME	This is the integrated flows product installation home.
	Example:
	Unix/Linux: PRODUCT_HOME=/slot/oracle/OUCSS_INTGFLOWS
	Windows: PRODUCT_HOME=D:\Oracle\OUCSS_INTGFLOWS

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

#### **On Windows:**

cd %WL\_HOME%\wlsserver\_10.3\server\bin\

setWLSEnv.cmd

#### **On UNIX/Linux:**

source "\${WL\_HOME}/wlserver\_10.3/server/bin/setWLSEnv.sh"

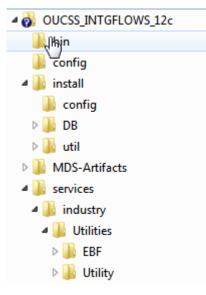
#### Notes:

- 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.

Procedure continues in the topic, Installing on SOA 11g and SOA 12c (Final Steps).

## Installing on SOA 12c

1 Download OUCSS\_INTGFLOWS\_12c.zip from the Oracle Software Delivery Cloud (edelivery.oracle.com) and 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.



**2** Set the following environment variables:

Variable	Example
Unix/Linux and Windows OS	
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=D:\Oracle\OUCSS_INTGFLOWS

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

#### **On Windows:**

cd %WL\_HOME%\wlsserver\server\bin\

setWLSEnv.cmd

#### **On UNIX/Linux:**

source "\${WL\_HOME}/wlserver/server/bin/setWLSEnv.sh"

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.

Procedure continues in the next topic, Installing on SOA 11g and SOA 12c (Final Steps).

### Installing on SOA 11g and SOA 12c (Final Steps)

The following steps are a continuation of the procedures in the previous two topics (<u>Installing on SOA 11g</u> and <u>Installing on SOA 12c</u>).

- 3 Open a command prompt and go to the <unzipdir>\OUCSS\_INTGFLOWS folder in which you unzipped OUCSS\_INTGFLOWS.zip or OUCSS\_INTGFLOWS\_12c.zip (this is the folder referred to as PRODUCT\_HOME, e.g., PRODUCT\_HOME=/slot/oracle/OUCSS\_INTGFLOWS).
- **4 IMPORTANT**: Patch 21693322 must be applied *before* installing CSS BPEL FLOWS. The Patch Installation Process (OPack/Opatch) is described in the README.txt file included with Patch 21693322.
- 5 Execute the following command to go to PRODUCT\_HOME:

#### **On UNIX/Linux:**

cd \$PRODUCT\_HOME/bin

#### **On Windows:**

cd %PRODUCT\_HOME%/bin

6 Update the <PRODUCT\_HOME>/config/InstallProperties.xml file with values appropriate to your environment.

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

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/OUCCBManagedServer node are used to build the CCB edge application end point URL in the ConfigurationProperties.xml file during install.

7 Execute the following command to install the Database artifacts like creating the tables, inserting the seed data.

#### **On UNIX/Linux:**

cd \$PRODUCT\_HOME/bin

cd %PRODUCT\_HOME%/bin

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

#### **On Windows:**

```
ant -f InstallBuild.xml installDB -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l InstallFlows.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.

8 Execute the following 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 -l InstallFlows.log
```

#### **On Windows:**

cd %PRODUCT\_HOME%/bin

```
ant -f InstallBuild.xml installWL -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l InstallFlows.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.

- **9** After executing the above command it is higly recommended to restart the Admin Server and all the SOA managed servers under the domain.
- **10** Execute the following command to install the SOA artifacts like SOA Partitions, Update the MDS with the CSS artifacts and deploy the mandatory composites.

#### **On UNIX/Linux:**

cd \$PRODUCT\_HOME/bin

```
ant -f InstallBuild.xml installSOA -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l 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.

**11** Execute the following 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 InstallOptionalFlowsBuild.xml installSOA -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l InstallOptFlows.log
```

#### **On Windows:**

cd %PRODUCT\_HOME%/bin

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

Notes:

- In OUCSS 2.1.0.2 and higher, the Optional OUCSS-OUCCB BPEL Flows can be installed with the above command. There is no need to apply patch 17632298.
- In version OUCSS 2.1.0, Patch 17632298 had to be applied to install the Optional OUCSS-OUCCB BPEL Flows.
- 12 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:
  - 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.

## **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:

Change Center			me Log Ou	t Preferences	Record Help		Q	Welcome, weblogic Connected to:				
View changes and restarts		Home >Summary of JDBC Data Sources										
Configuration editing is enabled. Future changes will automatically be activated as you		Summary of JDBC Data Sources										
modify, add or delete items in this domain.		Configuration Monitoring										
Oomain Structure												
pa_domain		A JD	BC data sou	rce is an object	t bound to the JND	tree t	hat provides database connectivity thr ase connection from a data source.	ough a pool of JDBC connections. Applications can				
Environment Deployments		22-242	0.00000000			The loss	have been created in this domain.					
Services		ins	page summ	arizes the JUDG	data source object	s that	have been created in this domain.					
E Messaging		Den	tomize thi	- bable								
Data Sources     Persistent Stores												
Foreign JNDI Providers		Data	Sources	(Filtered - Mo	re Columns Exist	:)						
Work Contexts XML Registries		New > Delete Showing 1 to 11 of 11 Pre										
XML Entity Caches jCOM		Г	Name	2	Тур	e	JNDI Name	Targets				
	¥		CCB2-MD	M2EHDS	Gene	ric	jdbc/CCB2-MDM2EHDS	soa_server1				
low do L	æ	Е	CSSNMS	DataSource1	Gene	ric	jdbc/CSSNMSDataSource1	soa_server1				
System Status	Ξ	Е	CSSNMS	MultiDS	Multi	9	jdbc/CSSNMSMultiDS	soa_server1				
Health of Running Servers			EDNData	Source	Gene	ric	jdbc/EDNDataSource	AdminServer, soa_server1				
Faled (0) Critical (0)			EDNLoca	ITxDataSource	Gene	ric	jdbc/EDNLocalTxDataSource	AdminServer, soa_server1				
Overloaded (0)			mds-ows	m	Gene	ric	jdbc/mds/owsm	AdminServer, soa_server1				
Warning (0) OK (2)			mds-soa		Gene	ric	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1				
5114			OraSDPM	DataSource	Gene	ric	jdbc/OraSDPMDataSource	AdminServer, soa_server1				
		Е	OUCSSE	HDS	Gene	ric	jdbc/OUCSSEHDS	soa_server1				
			SOAData	Source	Gene	ric	jdbc/SOADataSource	AdminServer, soa_server1				
			SOM	ITxDataSource	Gene	da	idbc/SOALocalTxDataSource	AdminServer, soa_server1				

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.

	Administration Console	⊆
Change Center	🕜 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: soa_doma
View changes and restarts	Home >Summary of JDBC Data Sources >CSSNMSDataSource1	
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for CSSNMSDataSource1	
modify, add or delete items in this domain.	Configuration Targets Monitoring Control Security Notes	
Domain Structure	General Connection Pool Oracle ONS Transaction Diagnostics Identity Options	
soa, domain ▲ ⊕ Environment → Deployments → Derivices ⊕ Hessaging → Data Sources → Persistent Stores → Foreign NDI Providers → Work Contexts → Work Context	Save         The connection pool within a JDBC data source contains a group of JDBC connections that applications reserve, use, and when the connection pool is registered, usually when starting up WebLogic Server or when deploying the data source to Use this page to define the configuration for this data source's connection pool.         If URL:       jdbc:oracle:thin:@msp-dooz.us.oracle.com.roz.t.n.more/         If Driver Class Name:       oracle.jdbc.xa.client.OracleXADataSource	
How do I	الله المعالم ال	connection in the connectors point (which that the function class made connectors) and the inter- classpath of any server to which it is deployed.) More Info The list of properties passed to the JDBC driver that are used to create physical database connections. For example: server=dbserver1. List each property=value
System Status         E           Health of Running Servers         Faled (0)           Critical (0)         Overloaded (0)	DatabaseName	pair on a separate line. More Info
Warning (0) OK (2)	System Properties:	The list of System Properties names passed to the JDBC driver that are used to create physical database connections. For example: server =dbserver1. List each property=value pair on a separate line. More Info
	d∰ Password:	The password attribute passed to the JDBC driver when creating physical database connections. More Info
	Confirm Password:	

- **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.

ORACLE WebLogic Server®	Administration (	Console							
Change Center	🔒 Home Log	a Home Log Out Preferences 🖾 Record Help							
View changes and restarts	Home >Summa	Home >Summary of JDBC Data Sources >CSSIIMSDataSource1							
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for CSSNMSDataSource1								
modify, add or delete items in this domain.	Configuration	Targets	Monitoring	Control	Security	Notes	<u> </u>		
Domain Structure	Statistics T	esting							
soa_domain    Soa_domain	Customize	this table ource (Filt	abase connection ered - More Co			rce.			
XML Entity Caches jCOM	Serv	er						State	
Mail Sessions	⊙ soa_s	erver 1						Running	
How do I 👻	Test Data S	ource							

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

ORACLE WebLogic Server®	Administration Console									
Change Center	Home Log Out Preferences 🔤 Record Help									
View changes and restarts	Home >Summary of JDBC Data Sources >CSSNMSDataSource1 >Summary of JDBC Data Sources >CSSNMSDataSource1 >Summary of JDBC Data Sources									
Configuration editing is enabled. Future changes will automatically be activated as you	Settings for CSSNMSMultiDS									
modify, add or delete items in this domain.	Configuration Targets Notes									
Domain Structure	General Data Sources									
soa_domain	Save         Use this page to select the JDBC data sources that you would like to include as part of this JDBC multi data source.         Data Sources:         Available:         Chosen:         CSSNMSDataSource1									
XML Registries XML Entity Caches JCOM Mail Sessions File T3	SOADataSource									
How do I 🛨	≪									
System Status										
Health of Running Servers	Save									

## **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**, select the **Configuration** tab and select the **Outbound Connection Pools** tab.
- 3 Expand javax.resource.cci.ConnectionFactory.
- 4 Select the eis/DB/CSSNMS connection factory and make sure the **xaDataSourceName** is pointed to the NMS Multi Data Source JNDI name.

Change Center	Home Home	Log Out Prefe	rences 🛃 Re	cord Help	6	2	W				
View changes and restarts		Home >Summary of JOBC Data Sources >CSSNMSDataSource1 >Summary of JOBC Data Sources >CSSNMSDataSource1 >Summary of JOBC Data Sources >Summary of Deplo 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.	Settings	or Javax.reso	urce.cci.Conn	ectionFactory							
	General	Properties	Transaction	Authentication	Connection Pool	Logging					
Domain Structure	-		He is the black south of the sector								
Environment     Deployments     Services     Massaging	1 million	nd Connection	Properties								
Messaging     Tota Sources	Save	Save									
Persistent Stores Foreign JNDI Providers	Proper	Property Name 🙈		Pr	Property Type		Property Value				
Work Contexts	dataSoc	urceName		jav	a.lang.String						
XML Entity Caches	default	defaultNChar		jav	a.lang.Boolean		false				
	platform	ClassName		jav	a.lang.String		org.eclipse.persistence.platform.database.Oracle10Platform				
		ePreallocationS	378	181	a.lang.Integer		1				
	sequen	cerreallocations	-	101							
Mail Sessions	-	chWriting			a.lang.Boolean		true				
Mal Sessions File T3 tow do I	⊕ usesBat usesNa			jav			true true				
Mal Sessions File T3	⊕ usesBat	chWriting		jav jav	a.lang.Boolean						

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

ORACLE WebLogic Server®	Administration	Console			
Change Center	A Home Log	Out Preferer	ices 🔛 Record Help	Q	Welcome, weblogic Connected to: soa_de
View changes and restarts	Home > Summ Sources > CSS	ary of JDBC Da	ta Sources >CSSNMSData x1 >Semmary of JDBC I	Source1 > Summary of IDBC Data Sources > Summar Data Sources	y of Deployments >DbAdapter >Summary of Deployments >DbAdapter >Summary of JDBC Data
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Settings for C				
	Configuratio	Targets	Notes		
Domain Structure	General	Data Sources			
soa_domain A Environment Deployments	Save				
El-Services B) Messaging Data Sources Persistent Stores Foreign JIDI Providers Work Contexts Wilk Registries	Use this pag data sources * Indicates req	ş.	egeneral configuration fr	or this JDBC multi data source. A JDBC multi data s	source is an abstraction around a group of data sources that provides load balancing and failover between
····XML Entity Caches ····jCOM	Name:			CSSNMSMultDS	A unique name that identifies this multi data source in the WebLogic domain. Ma Info
How do L	jdbc/CSS	ame: NMSMulti	DS	2	The JHOT path to where this multi data source is bound. More $\ensuremath{Info}\xspace.$
System Status					
Health of Running Servers					
Faled (0) Critical (0) Overloaded (0)	d Algorith	m Type:		Load-Balancing	The algorithm determines the connection request processing for the multi data source. More Info

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

ORACLE We	bLogic Server®	Administration Console
-----------	----------------	------------------------

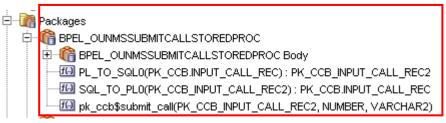
Change Center	Home L	og Out Prefe	rences 🔤 Re	ord Help	(	2		Welco
View changes and restarts			Data Sources >9 loyments > <b>DbA</b>		/ments >DbAdapter >!	Summary of I	Deployments >DbAdapter >Summa	ary of JDBC Data Sources >CSSNMSDataSource
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Settings for	r javax.reso	urce.cci.Conn	ectionFactory				
	General	Properties	Transaction	Authentication	Connection Pool	Logging		
Domain Structure								
ea_domain ▲ ⊕ Environment → Deployments ⊕ Services ⊕ Messaging → Data Sources		allows you to		/ the configuratio	n properties of this o	utbound con	nection pool. Properties you moo	dify here are saved to a deployment plan.
Persistent Stores	Propert	v Name 🚕		Pr	operty Type		Property Value	
Foreign JNDI Providers Work Contexts XML Registries	dataSourceName		jev	a.lang.String		jdbc/OUCSSEHDS		
XML Entity Caches	defaultNC	har		jav	a.lang.Boolean		false	
jCOM	platformC	ormClassName		jav	a.lang.String		org.eclipse.persistence.platform.database.Oracle10Platform	
Mail Sessions File T3	sequence	PreallocationSi	ze	jav	a.lang.Integer		1	
tow do I	usesBatch	Writing		jav	a.lang.Boolean		true	
100 00 1	usesNativ	eSequencing		jav	a.lang.Boolean		true	
System Status	usesSkipL	ocking		jav	a.lang.Boolean		true	
Health of Running Servers	xADataSo	ourceName		jav	a.lang.String			
Failed (0)	Save							

The Error Handling Data Source JNDI name is found on Services > Data Sources and in the General tab.

Change Center	Connected to: soa_do
Home >Summary of IDRC Data Sources >CSSNMSDataSource1 >Summary of Deployments >Dbådarter >Summary of IDRC Data Sources >DUCSSENDS	
View changes and restarts Home > Summary of JDBC Data Sources > CSSINMSDataSource1 > Summary of JDBC Data Sources > OUCSSEHDS	
Configuration editing is enabled. Future changes will automatically be activated as you configuration Tarcets Montoring Control Security Notes	
compression logical remaining certain county noise	
Domain Structure Connection Pool Oracle ONS Transaction Diagnostics Identity Options	
soa domain ▲ ⊕ Environment Save	
Applications get a database connection from a data source by looking up the data source on the Java Naming and Directory Interface (INDI) tree and then requesting a connection. The data source provides the connection from its pool of database connections.	ection to the
Persistent Stores     This page enables you to define general configuration options for this JDBC data source.     Foreign JNDI Providers	
Work Contexts	More Info
Image: Section Sectio	I name is the name of
How do I	
Create 1986 generic data sources	
Create LIR-enabled JDBC data sources	
server access. More Info	to the client) in one
	o prefetch for a
Hearth or kunning servers 40 dient. More Info	
Failed (0)     Critical (0)       Critical (0)     Critical (0)       Oversorated (10)     266   Specifies the data chunk size for steaming data types. More Info	

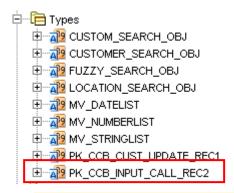
### Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database

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.

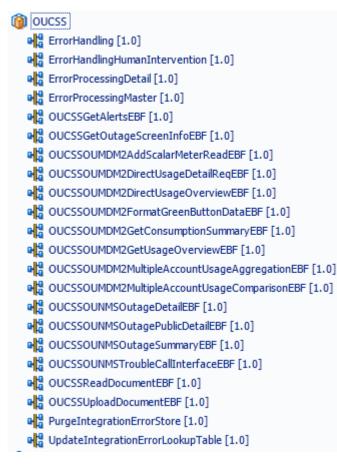


Note: This type is being used by the BPEL Wrapper Procedure.

## 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 Farm\_soa\_domain>soa>soa-infra>OUCSS partition.
- **3** Verify that these composites are deployed:



## 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 WebLogic Domain and right-click soa\_domain > Security > Credentials.

🖃 📲 Farm_soa_d	lomain	
🕀 🛅 Applicatio	on Deployments	
🖃 🛅 SOA		
🖽 👯 soa-ir	nfra (soa_server1)	
🗆 🛅 WebLogi		
🗆 🕂 soa,		
	Home	
🗄 🛅 Metadat	Control	>
_		
🕀 🛅 User Me	Logs	>
	Port Usage	
	Application Deployment	>
	SOA Deployment	
	SOA Deployment	
	Web Services	>
	Security	Credentials
	Metadata Repositories	
	JDBC Data Sources	Security Provider Configuration
	System MBean Browser	Security Provider Configuration
	System Moedil Drowser	

3 Expand the oracle.wsm.security credential and verify that the keys OU\_CCB\_01 and OU\_MDM2\_02 were created.

#### Credentials

A credential store is the repository of security data that certify the authority of entities used by Java 2, J2EE, and ADF applications. Applications can use the Credential Store, a single, consolidated service provider to store and manage their credentials securely.

#### Credential Store Provider

Scope WebLogic Domain Provider SSP Location ./

🕂 Create Map 🛛 🕂 Create Key 🛛 🥢	PEdit 💥 Delete   Cr	redential Key Name
Credential	Туре	Description
E BPM-CRYPTO		
🗆 🔁 oracle.wsm.security		
OU_CCB_01	Password	CCB Edge Application WS Credentials
OU_MDM2_02	Password	MDM Edge Application WS Credentials

### **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.

Services and References		
Name	Туре	Usage
Superstant Contract C	Web Service	Service
ROUNMSCheckCurrentOutageService	JCA Adapter	Reference
OUCCBGetAlertsService	Web Service	Reference
CUNMSCheckPlannedOutageService	JCA Adapter	Reference
GUCSSGetAlertsExtension	Web Service	Reference

• 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:

Dashboard	Policies Faults and Re	jected Messages Properti	es				
Globally At	ttached Policies						
Delieu Mene		Deline Cak	Coheren	Total Violations		Security Viol	ations
Policy Name		Policy Set	Category	I otal violations	Authentication	Authorization	Confidentia
No rows yet							
_							
•							

#### **Directly Attached Policies**

	,							
	Attach/Detach							
	Policy Name	Category	P R	Total Violations		Security	Violations	
Folicy Name		Category	S	Total violations	Authentication	Authorization	Confidentiality	
	oracle/Utilities_wss_http_token_service_policy_OPT_ON	Security		0	0	0	0	
	4							

• Verify that the **OUCCBGetAlertsService** Web Service Type with Reference Usage is calling a CCB Web Service and is linked to a client policy. The client policy attached to that Web Service should use the **OU\_CCB\_01** csf-key:

#### **Directly Attached Policies**

Attach/Detach	🖉 Disable
Name	
oracle/wss_http_token_	client_policy

#### Security Configuration Details

Name	Current Value	Original Value
csf-key	OU_CCB_01	basic.credentials

4 Choose OUCSSGetOutageScreenInfoEBF, scroll down to the Services and References section.

□ Services and References		
Name	Туре	Usage
Soucssgetoutagescreeninfo_client_ep	Web Service	Service
OUCCBGetServiceDetails	Web Service	Reference
SOUCSSGetOutageScreenInfoExtension	Web Service	Reference
CUNMSGetTroubleCodes	JCA Adapter	Reference

- Verify that the **oucssgetoutagescreeninfo\_client\_ep** Web Service Type with Service Usage is linked to a service policy.
- Verify that the **OUCCBGetServiceDetails** Web Service Type with Reference Usage is calling a CCB Web service and is linked to a client policy. The client policy attached to that web service should use the **OU\_CCB\_01** csf-key.
- 5 Choose OUCSSOUNMSOutageSummaryEBF, scroll down to the Services and References section:

Services and References		
Name	Туре	Usage
SOUCSSOUNMSOutageSummary_ep	Web Service	Service
CUNMSOutageSummaryService	JCA Adapter	Reference
SOUCSSOUNMSOutageSummaryExtensionService	Web Service	Reference

- Verify that the **OUCSSOUNMSOutageSummary\_ep** Web Service Type with Service Usage is linked to a service policy.
- 6 Choose OUCSSOUNMSOutageDetailEBF, scroll down to the Services and References section:

Services and References		
Name	Туре	Usage
SUCSSOUNMSOutageDetail_ep	Web Service	Service
	Web Service	Reference
🚱 OUCCBGetServiceDetails	Web Service	Reference
	JCA Adapter	Reference
OUNMSGetPlannedOutageDetailService	JCA Adapter	Reference

- Verify that the **OUCSSOUNMSOutageDetail\_ep** Web Service Type with Service Usage is linked to a service policy.
- Verify that the **OUCCBGetServiceDetails** Web Service Type with Reference Usage is calling a CCB Web service and is linked to a client policy. The client policy attached to that Web Service should use the **OU\_CCB\_01** csf-key.
- 7 Choose OUCSSOUNMSTroubleCallInterfaceEBF, scroll down to the Services and References section.

Services and References		
Name	Туре	Usage
Soucssounmstroublecallinterfaceebf_client_ep	Web Service	Service
CUNMSSubmitCallStoredProcedure	JCA Adapter	Reference
	Web Service	Reference
SerrorHandling	Web Service	Reference

- Verify that the **oucssounmstrobulecallinterfaceebf\_client\_ep** Web Service Type with Service Usage is linked to a service policy.
- Verify that the ErrorHandling Web Service Type with Service Reference is not linked to any policy.
- 8 Choose OUCSSOUNMSOutagePublicDetailEBF, scroll down to the Services and References section.

Services and References			
Name	Туре	Usage	
SOUCSSOUNMSOutagePublicDetail_ep	Web Service	Service	
OUNMSOutagePublicDetailDBService	JCA Adapter	Reference	

• Verify that the **OUCSSOUNMSOutagePublicDetail\_ep** Web Service Type with Service Usage is linked to a service policy.

9 Choose OUCSSOUMDM2DirectUsageDetailReqEBF, scroll down to the Services and References section.

Name	Туре	Usage
SwxUsageDetailService	Web Service	Service
Source Content	Web Service	Reference
OUMDMUsageDetailService	Web Service	Reference

- Verify that the **WXUsageDetailService** Web Service Type with Service Usage is linked to a service policy.
- Verify that the **OUMDMUsageDetailService** Web Service Type with Reference Usage is calling an MDM Web Service and is linked to a client policy. The client policy attached to that web service should use the **OU\_MDM\_02** csf-key:

#### **Directly Attached Policies**

🚰 Attach/Detach 🥜 Disable	
Name	
orade/wss_http_token_dient_policy	

#### Security Configuration Details

Name	Current Value	Original Value
csf-key	OU_MDM2_02	basic.credentials

10 Choose OUCSSOUMDM2DirectUsageOverviewEBF, scroll down to the Services and References section.

Services and References		
Name	Туре	Usage
S WXUsageOverviewService	Web Service	Service
SOUCSSOUMDM2DirectUsageOverviewExtension	Web Service	Reference
SOUMDMUsageOverviewService	Web Service	Reference

- Verify that the **WXUsageOverviewService** Web Service Type with Service Usage is linked to a service policy.
- Verify that the **OUMDMUsageOverviewService** Web Service Type with Reference Usage is calling an MDM Web Service and is linked to a client policy. The client policy attached to that web service should use the **OU\_MDM\_02** csf-key.
- 11 Choose OUCSSOUMDM2GetConsumptionSummaryEBF, scroll down to the Services and References section

Services and References		
Name	Туре	Usage
OUCSSOUMDM2GetConsumptionSummary_client_ep	Web Service	Service
SOUCSSOUMDM2GetConsumptionSummaryExtensionService	Web Service	Reference
SUMDM2WXGetScalarConsumptionSummaryService	Web Service	Reference

• Verify that the **OUCSSOUMDM2GetConsumptionSummary\_client\_ep** Web Service Type with Service Usage is linked to a service policy.

• Verify that the **OUMDM2WXGetScalarConsumptionSummaryService** Web Service Type with Reference Usage is calling an MDM Web service and is linked to a client policy. The client policy attached to that web service should use the **OU\_MDM\_02** csf-key.

12 Choose OUCSSOUMDM2AddScalarMeterReadEBF, scroll down to the Services and References section.

□ Services and References		
Name	Туре	Usage
OUCSSOUMDM2AddScalarMeterRead_client_ep	Web Service	Service
SOUMDMWX-CreateSelfServiceMeterReadService	Web Service	Reference
OUCSSOUMDM2AddScalarMeterReadExtensionService	Web Service	Reference

- Verify that the **OUCSSOUMDM2AddScalarMeterRead\_client\_ep** Web Service Type with Service Usage is linked to a service policy:
- Verify that the **OUMDMWX-CreateSelfServiceMeterReadService** Web Service Type with Reference Usage is calling an MDM Web Service and is linked to a client policy. The client policy attached to that web service should use the **OU\_MDM\_02** csf-key.
- 13 Choose OUCSSOUMDM2GetUsageOverviewEBF, scroll down to the Services and References section.

□ Services and References		
Name	Туре	Usage
SOUCSSOUMDM2GetUsageOverview_dient_ep	Web Service	Service
SOUCSSOUMDM2FormatGreenButtonDataService	Web Service	Reference
SOUCCBWXUsageOverviewService	Web Service	Reference

- Verify that the **OUCSSOUMDM2GetUsageOverview\_client\_ep** Web Service Type with Service Usage is linked to a service policy.
- Verify that the **OUCCBWXUsageOverviewService** Web Service Type with Reference Usage is calling a CCB Web service and is linked to a client policy. The client policy attached to that web service should use the **OU\_CCB\_01** csf-key.
- 14 Choose OUCSSOUMDM2FormatGreenButtonDataEBF, scroll down to the Services and References section.

Services and References				
Name		Туре	Usage	
SOUCSSOUMDM2FormatGreenButtonData_client_ep		Web Service	Service	

- Verify that the **OUCSSOUMDM2FormatGreenButtonData\_client\_ep** Web Service Type with Service Usage is linked to a service policy.
- Verify that the **OUCCBWXUsageOverviewService** Web Service Type with Reference Usage is calling a CCB Web service and is linked to a client policy. The client policy attached to that web service should use the **OU\_CCB\_01** csf-key.
- 15 Choose OUCSSOUMDM2MultipleAccountUsageAggregationEBF, scroll down to the Services and References section.

Services	and	References
----------	-----	------------

Name	Туре	Usage
SOUCSSOUMDM2MultipleAccountUsageAggregation_Client_ep	Web Service	Service
SOUMDM2MultipleAccountUsageAggregationService	Web Service	Reference

- Verify that the **OUCSSOUMDM2MultipleAccountUsageAggregation\_Client\_ep** Web Service Type with Service Usage is linked to a service policy:
- Verify that the **OUMDM2 MultipleAccountUsageAggregationService** Web Service Type with Reference Usage is calling an MDM Web Service and is linked to a client policy. The client policy attached to that web service should use the **OU\_MDM\_02** csf-key.
- 16 Choose OUCSSOUMDM2MultipleAccountUsageComparisonEBF, scroll down to the Services and References section.

Services and References			
Name	Т	Гуре	Usage
SOUCSSOUMDM2MultipleAccountUsageComparison_Client_ep	v	Web Service	Service
SOUMDM2MultipleAccountUsageComparisonService	v	Web Service	Reference

- Verify that the the **OUCSSOUMDM2MultipleAccountUsageComparison\_Client\_ep** Web Service Type with Service Usage is linked to a service policy:
- Verify that the **OUMDM2 MultipleAccountUsageComparisonService** Web Service Type with Reference Usage is calling an MDM Web Service and is linked to a client policy. The client policy attached to that web service should use the **OU\_MDM\_02** csf-key.
- 17 Choose OUCSSReadDocumentEBF, scroll down to the Services and References section.

Services and References		
Name	Туре	Usage
Soucssreaddocumentprocess_client_ep	Web Service	Service
CUCSSReadDocumentService	JCA Adapter	Reference

- Verify that the **oucssreaddocumentprocess\_client\_ep** Web Service Type with Service Usage is linked to a service policy.
- 18 Choose OUCSSUploadDocumentEBF, scroll down to the Services and References section.

Services and References		
Name	Туре	Usage
Soucssuploaddocumentprocess_client_ep	Web Service	Service
Control Con	JCA Adapter	Reference
FileUploadAdapterService	JCA Adapter	Reference

• Verify that the oucssuploaddocumentprocess\_client\_ep Web Service Type with Service Usage is linked to a service policy.

## 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.
- **3** Verify that the 35 CSS-CCB composites are deployed in the OUCSS partition:

OUCSSOUCCBWXAccountChargesSummaryRetrieverEBF [1.0] OUCSSOUCCBWXAccountSearchEBF [1.0] OUCSSOUCCBWXAutoPaySetupEBF [1.0] OUCSSOUCCBWXBillPayHistoryRetrieverEBF [1.0] OUCSSOUCCBWXBillViewEBF [1.0] OUCSSOUCCBWXBudgetDetailsEBF [1.0] OUCSSOUCCBWXContextInfoEBF [1.0] OUCSSOUCCBWXCreateMeterReadEBF [1.0] OUCSSOUCCBWXEBillSetupEBF [1.0] OUCSSOUCCBWXFinancialHistoryRetrieverEBF [1.0] OUCSSOUCCBWXFormsListEBF [1.0] OUCSSOUCCBWXFormsManagementEBF [1.0] OUCSSOUCCBWXGetConsumptionSummaryEBF [1.0] OUCSSOUCCBWXGetRatedSAsEBF [1.0] OUCSSOUCCBWXGetSelfServiceDropdownsEBF [1.0] OUCSSOUCCBWXGetSelfServiceLabelsEBF [1.0] OUCSSOUCCBWXInvitePersonListEBF [1.0] OUCSSOUCCBWXMaintainMailingAddressInfoEBF [1.0] OUCSSOUCCBWXMaintainPhoneInfoEBF [1.0] OUCSSOUCCBWXMakePaymentEBF [1.0] OUCSSOUCCBWXMultipleAccountFinancialHistoryEBF [1.0] OUCSSOUCCBWXPremiseSearchEBF [1.0] OUCSSOUCCBWXProcessBudgetRequestEBF [1.0] OUCSSOUCCBWXProcessPayArrangementReguestEBF [1.0] OUCSSOUCCBWXProcessStartStopRequestEBF [1.0] OUCSSOUCCBWXRateAnalysisEBF [1.0] OUCSSOUCCBWXRetrieveAccountDocumentsEBF [1.0] OUCSSOUCCBWXRetrievePPBBalanceAndChargesEBF [1.0] OUCSSOUCCBWXRetrievePPBEstimatesAndCostsEBF [1.0] OUCSSOUCCBWXRetrieveScalarUsageEBF [1.0] OUCSSOUCCBWXSetBillNotifyPreferenceEBF [1.0] OUCSSOUCCBWXUsageChargesToDateEBF [1.0] OUCSSOUCCBWXVerifyAccountEBF [1.0] OUCSSOUCCBWXViewAccountEBF [1.0] OUCSSOUCCBWXViewAccountListEBF [1.0]

## 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.

🖃 📲 Farm_soa_d	domain	
🗄 🛅 Applicati	on Deployments	
🖃 🛅 SOA		
🖽 👯 soa-ir	nfra (soa_server1)	
🗆 🛅 WebLogi		
🗆 🚽 soa,		
	Home	
🗄 🛅 Metadat	Control	>
🕀 🚞 User Me	Logs	·
	Port Usage	
	Application Deployment	>
	SOA Deployment	
	SOA Deployment	· ·
	Web Services	>
	Security	> Credentials
	Metadata Repositories	
	JDBC Data Sources	N Security Dravider Configuration
		Security Provider Configuration
	System MBean Browser	

3 Expand the oracle.wsm.security credential and verify that the keys OU\_CCB\_01 is created.

#### Credentials

A credential store is the repository of security data that certify the authority of entities used by Java 2, J2EE, and ADF applications. Applications can use the Credential Store, a single, consolidated service provider to store and manage their credentials securely.

Credential Store	Provider
Scope Provider Location	

🛖 Create Map 🛛 🗣 Create Key	🖉 Edit 💥 Delete 🛛 Crede	intial Key Name
Credential	Туре	Description
E BPM-CRYPTO		
🗆 🧰 locade.wsm.security		
OU_CCB_01	Password	CCB Edge Application WS Credentials
OU_MDM2_02	Password	MDM Edge Application WS Credentials

## 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 > OUCSS partition.
- 3 Choose a composite (example: OUCSSOUCCBWXAccountSearchEBF), then scroll down to the Services and References section.

#### ✓ Services and References

Name	Туре	Usage	Faults	Total Messages
SOUCSSOUCCBWXAccountSearch_Client_ep	Web Service	Service	0	1
Soucce_wxAccountSearchService	Web Service	Reference	0	1

• Verify that the Web Service Type with Service Usage (example: **OUCSSOUCCBWXAccountSearchEBF\_Client\_ep**) is linked to a service policy.

OUCSSOUCCBWXAC SOA Composite ▼	countSearchEBF	[1.0] i		Logged in a
OUCSSOUCCBWXAccountSearchEB		_ep (Web	Service) 🤅	)
Dashboard Policies	Faults and Rejected Me	ssages	Properties	
Globally Attached Policie	5			Subject's O
Policy Name	Category	Policy	Set	Status
No rows yet				
Directly Attached Policies	5			
				<b>a</b> 1

oracle/Utilities_wss_http_token_service_policy_OPT_ON Security True Enabled	Policy Name	Category	Effective	Status
	oracle/Utilities_wss_http_token_service_policy_OPT_ON	Security	True	Enabled

- Verify that the Web Service Type with Reference Usage (example: **OUCCB\_WXAccountSearchService**) is linked to a client policy. The client policy attached to that web service should use the **OU\_CCB\_01** csf-key.
- Repeat this verification procedure for all remaining BPEL composites, as needed.

- He could a m	ntSearchEBF [1.0] 🔋	Logged in as w	e <b>blogic</b>   Hos Pa
이 SOA Composite - OUCSSOUCCBWXAccountSearchEBF [1.0 행 OUCCB_WXAccountSearc	-		P.
Dashboard Policies Fau	lts Properties		
Globally Attached Policies		Category	Policy Set
No rows yet		21	, ,
Directly Attached Policies			
Directly Attached Policies	le		
	le	Categor	у
Attach/Detach 🥖 Disab		Catego	
Name		-	
Attach/Detach 🥖 Disab		-	
Attach/Detach / Disab		Security	
Attach/Detach Disab	s	Security	

## Verify ADF Connection in OUCSS Enterprise Manager

Verify that the OUCSS-OUCCB wsdls are correctly tokenized and referenced in the ADF Connections:

- 1 Log in to the OUCSS Oracle Enterprise Manager console at http://<WLSAdminHost>:<WLSAdminServerPort>/em with wlsadminuser/wlsadminpasswd.
- 2 Select OUCSSPortal(v2.1.0.2) from Application Deployments, then right-click and choose ADF > Configure ADF Connections from the context menu as shown in the following image:

ORACLE Enterprise Manager 11g Fus	sion Middleware Control		Setup
📑 Farm 👻 👗 Topology			
<ul> <li>Image: Second state of the secon</li></ul>		<pre>   OUCSSPortal(v2.1.0.2)    Application Deployment    </pre>	Logged in as <b>weblogic</b>   Host Page Refreshed May 26, 2015
<ul> <li>▼ Application Depuyments</li> <li>► Internal Applications</li> <li>OUCSSInboundServices(v2.1.0.2) (WC_Custon</li> <li>OUCSSPortal(v2.1.0.2) (WC_CustomPort</li> <li>WebLogic Domain</li> <li>▼ portal_domain</li> </ul>	tal) Home	ADF Connections Configuration () Use this page to view, modify or add new ADF connections. To create a new connection, select a Connection Type from the list below and fields for configuring the selected connection type.	
→ portar_uomain → AdminServer → OUCSSMobility → WC_CustomPortal → → Metadata Repositories	Control Logs Performance Summary Application Deployment Web Services WebCenter Portal	✓ Create Connection     Connection Type     Connection Name     Greate Connection	
	ADC Security MDS Configuration TopLink Sessions System MBean Browser WebLogic Server Administration Console General Information	ADF Performance Configure ADF Business Components Configure ADF Connections Configure ADF (adf Config) ADF Log Configuration Versions ADF Resource Center tion Configuration	

- **3** Under **Webserver connections**, each connection name should show a corresponding OUCSSOUCCB BPEL WSDL URL.
- 4 Click on a connection name (example: SSGetRatedSAsService), click Edit, select WSDL URL, and open the connection in your browser. If the WSDL URL is correctly formed (e.g., http://soahostname:soaportno/soa-infra/services/OUCSS/OUCSSOUCCBWXGetRatedSAsEBF/OUCSSOUCCBWXGetRatedSAs\_Client\_ep?WSDL) and WSDL opens, then tokenization has been completed correctly.

Web Service	Connection	I			1
Specify pro	operties for	SSLabelService	connection.		
			ervice connection, including attaching and detaching policies, close this popu- tion Configuration".	up, select your WSDL URL of the WebSe	vice Connection
	WSDL URL	http://	/soa-infra/services/OUCSS/OUCSSOUCCBWXGetSelf5		_
Default Se	ervice Name	{http://ouaf.ora	le.com/spl/XAIXapp/xaiserver/WXGetSelfServiceLabels}WXGetSelfServic		
				OK Cancel	

5 Click on a connection name (example: SSGetRatedSAsService), click AdvancedConnectionConfiguration, select Configuration tab, make sure the Endpoint Address has the same entry as the wsdl above, except with no '?wsdl' at the end. The Endpoint Address will look like the sample below if it is correctly formed (e.g., <u>http://soahostname:soaportno/soa-infra/services/OUCSS/OUCSSOUCCBWXGetRatedSAsEBF/OUCSSOUCCBWXGetRatedSAs\_Client\_ep</u>)

etRate	ns Configuration > Configure Web Service dSAsPort (Web Service Client)
OWSM Polic	cies Configuration
General	
	Endpoint Address http://s
	Maintain Session
HTTP Ch	
	Stop Chunking True 💌
	Chunking Size(bytes) 4096
HTTP Tin	
Н	TTP Read Timeout (ms)
HTTP Co	nnection Timeout (ms)
HTTP Co	onnection Timeout (ms)

6 Click on a connection name (example: SSGetRatedSAsService), click **AdvancedConnectionConfiguration**, select **OWSM Policies tab**, make sure a client policy is in the Directly Attached Policies and csf-key assigned is **OUCSS\_INTG\_BASIC\_KEY**.

OWSM Policies	Configuration		
	osinguruton		
obally Attached	Policies		
lame			
lo rows yet			
o tono yec			
rectly Attached	Policies		
rectly Attached	Policies 🥖 Disable		
Attach/Detach			
Attach/Detach	🥖 Disable	]	
Attach/Detach	🥖 Disable	]	
Attach/Detach	🥖 Disable	]	
Attach/Detach	🥖 Disable	]	
Attach/Detach Name oracle/wss_http_to	Disable Disable		
Attach/Detach Name oracle/wss_http_to	Disable Disable	Current Value	Original Value
Attach/Detach Name oracle/wss_http_to ecurity Configura Name	Disable Disable	Current Value	Original Value
Name oracle/wss_http_to ecurity Configura	Disable Disable	Current Value OUCSS_INTG_BASIC_KEY	Original Value basic. credential

7 Repeat this verification procedure for all remaining connections that need to call the OUCSS-OUCCB Optional BPEL services

### **Updating the MDS Folder**

**Prerequisite**: Before updating the MDS folder, set the environment variables as described in Step 2 of "Installing the Integration" 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 -l updatemds.log
```

#### **On Windows:**

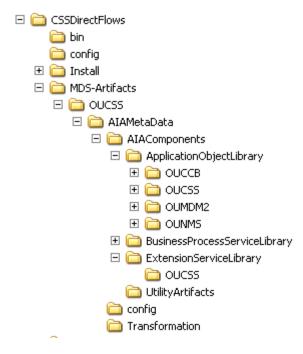
cd %PRODUCT\_HOME%\bin

```
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 2 of "Installing the Integration" 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 E</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 integration flows. These flows are also known as Optional Flows. The Command in Step 4 needs to be executed only if the Optional flows were installed as part of Step 7 in the Installation section and wants to now uninstall them This step can be ignored if the Optional flows were not previously installed.

#### **On UNIX/Linux:**

cd \$PRODUCT\_HOME/bin

```
ant -f UninstallOptionalFlowsBuild.xml uninstallSOA -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l uninstallOptFlows.log
```

#### **On Windows:**

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

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

**Note:** Refer to OUCSS\_2\_1\_0\_1\_Whitepaper\_OUCSSOUCCBOptionalBPELFlows whitepaper for verification of the optional flows uninstallation.

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 -l 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, and NMS packages 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 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 3.1.1 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 3.1.1 Media Pack with the latest patches must be installed and running on the server.

Make sure the following patches are installed:

- Roll up Patch (RUP1) 15970903, which contain Patch12731103 CCB-MDM Integrated Flows needed for Self-Service.
- Patch 17277797- CCB-MDM Integration changes for Bill Print Enhancement
- Patch 17995429 Support Rate Compare & Charges To Date Enhancements Integration Change
- Patch 18499403 Master Bug for Billing Items/Life Support Added to Person Sync

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 3.1.1 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 four composites are deployed:
  - OUCCB2OUMDM2SSUsageReqEBF
  - OUCCB2OUMDM2SSUsageAdjustmentReqEBF

```
🖃 🚞 SOA
  Soa-infra (soa_server1)
     🖃 🔞 CCB2-MDM2
         ErrorHandling [1.0]
         ErrorHandlingHumanIntervention [1.0]
         ErrorProcessingDetail [1.0]
         ErrorProcessingMaster [1.0]
         OUCCB2OUMDM2BatchBDRegEBF [1.0]
         OUCCB2OUMDM2HighLowReadReqEBF [1.0]
         OUCCB2OUMDM2MeterConfigSyncReqEBF [1.0]
         OUCCB2OUMDM2MeterReadSyncReqEBF [1.0]
         OUCCB2OUMDM2MeterSyncReqEBF [1.0]
         OUCCB2OUMDM2OnlineBDReqEBF [1.0]
         OUCCB2OUMDM2PersonSyncReqEBF [1.0]
         OUCCB2OUMDM2SASyncReqEBF [1.0]
         OUCCB2OUMDM2SPMeterHistSyncReqEBF [1.0]
         OUCCB2OUMDM2SPSyncReqEBF [1.0]
         OUCCB2OUMDM2SSUsageAdjustmentReqEBF [1.0]
         OUCCB2OUMDM2SSUsageReqEBF [1.0]
         OUMDM2OUCCB2BatchBDRespEBF [1.0]
         OUMDM2OUCCB2MeterConfigSyncRespEBF [1.0]
         OUMDM2OUCCB2MeterReadSyncRespEBF [1.0]
         OUMDM2OUCCB2MeterSyncRespEBF [1.0]
         OUMDM2OUCCB2OnlineBDRespEBF [1.0]
         OUMDM2OUCCB2PersonSyncRespEBF [1.0]
         OUMDM2OUCCB2ReplReadReqEBF [1.0]
         OUMDM2OUCCB2SASyncRespEBF [1.0]
         OUMDM2OUCCB2SPMeterHistSyncRespEBF [1.0]
         OUMDM2OUCCB2SPSyncRespEBF [1.0]
         PurgeIntegrationErrorStore [1.0]
         UpdateIntegrationErrorLookupTable [1.0]
```

**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:

- SOA Suite 11.1.1.7.0 on WebLogic Server 10.3.6.
- OUNC is certified with the following edge applications:
  - Oracle Utilities Customer Care and Billing v2.4.0.3
  - 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 11.1.1.7.0 on WebLogic Server 10.3.6 is installed and running. For more information on SOA, refer to the documentation at <a href="http://www.oracle.com/technetwork/middleware/soasuite/documentation/soallgdoc-2212842.html#111170">http://www.oracle.com/technetwork/middleware/soasuite/documentation/soallgdoc-2212842.html#111170</a>.
- Make the following changes in the <DomainHome>/bin folder setDomainEnv.sh file:

USER\_MEM\_ARGS=-Xms256m -Xmx1024m -XX:CompileThreshold=8000 -XX:PermSize=128m -XX:MaxPermSize=512m

- Login into the Weblogic Administration Console using the URL http://admin\_server\_hostname:port/console
- Expand Environment Tree available on the left hand panel of the Admin Console.
- Click on Servers.
- For each Server (e.g., soa\_server1, and bam\_server), click on the server name, then then click the Configuration tab.
- Go to the Server Start tab available on the top of the page.
- Add the memory values in the **Arguments** field:
- -Xmx2048m -Xms2048m
- Click Save
- Log in to the WebLogic console to confirm there are no changes in Pending Activation status.
- If not already running, start the Node Manager.
- Restart the SOA manager server 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 variable 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 http://docs.oracle.com/cd/E21764\_01/core.1111/e12036/install.htm#SOEDG163

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\_wl\_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

1 Download and extract the OUNC.zip from the Oracle Software Delivery Cloud (edelivery.oracle.com) 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.

4 🍌 OUNC
鷆 bin
🌗 config
4 🌗 Install
鷆 config
DB 🌗 DB
鷆 default
🛯 🍑 util
鷆 ant
ib 🔐
Delicy
鷆 ру
퉬 template
鷆 xsl
MDS-Artifacts
A 🌆 OUNC
4 퉲 AIAMetaData
AIAComponents
Config
Transformation
services
4 鷆 industry
Utilities
⊳ 🌆 EBF
Dility
/

**2** Set the following environment variables:

Variable	Example
Unix/Linux and Windows OS	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware
WL_HOME	XXX/Middleware
PRODUCT_VERSION	2.1.0.2
PRODUCT_HOME	This is the integrated flows product installation home. Example: Unix/Linux: PRODUCT_HOME=/slot/oracle/ OUNC_Flows Windows: PRODUCT_HOME=D:\Oracle\ OUNC_Flows

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

#### **On UNIX/Linux:**

source "\${WL\_HOME}/wlserver\_10.3/server/bin/setWLSEnv.sh"

#### **On Windows:**

cd %WL\_HOME%\wlsserver\_10.3\server\bin\setWLSEnv.cmd

#### 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, use appropriate path separator (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.

- **3** 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
- 4 Execute the following command to go to the PRODUCT\_HOME:

#### **On UNIX/Linux:**

cd \$PRODUCT\_HOME/bin

#### **On Windows:**

cd %PRODUCT\_HOME%/bin

5 Update the <PRODUCT\_HOME>/config/InstallProperties.xml file with values appropriate to your environment.

See <u>Appendix F</u> for a sample of the OUNC *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 "OUNC / EdgeSystems /CCB" node are used to build the CCB edge application end point URL during install.

- **6** Under the <PRODUCT\_HOME>/config folder, check the following xml files:
  - NotificationTypes.xml
  - NotificationAppChannels.xml

These xml files contains default data that will be loaded to the following Notification tables:

- Notification Types (NC\_NOTIF\_TYPES)
- Edge Application Tables (NC\_EDGE\_APPS, NC\_EDGE\_APPS\_L)
- Channels Tables (NC\_DELIVERY\_TYPE, NC\_DELIVERY\_TYPE\_L)
- Edge Application Channels Tables (NC\_APP\_DELIVERY\_TYPES)

If there are more user-defined data that needs to be added, please update the xml files accordingly.

If different languages are supported, modify the NotificationAppChannels.xml file to add description in the language(s) supported.

#### Note:

If no extra data are needed or the system only supports English, these files do not need to be updated.

- 7 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 new install, the start sequence is defaulted to 1. No need to update the sql files.
- When reinstalling, do the following steps:
  - o 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.
- 8 Execute the following command to complete the DB installation

#### **On UNIX/Linux :**

#### cd \$PRODUCT\_HOME/bin

```
ant -f InstallBuild.xml installDB -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l 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.

**9** Execute the following command to install the credential maps, 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 -l 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 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.

- **10** After executing the above command it is higly recommended to restart the Admin Server and all the SOA managed servers under the domain.
- 11 Execute the following 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 -l 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 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.

- 12 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:
  - 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.

### **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.

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 by running the following command or by using any other manual method, such as the admin console:

#### **On Windows:**

```
ant -f InstallBuild.xml bounceServers -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l restartOUNC1.log
```

#### **On UNIX/Linux :**

```
ant -f InstallBuild.xml bounceServers -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l restartOUNC1.log
```

#### **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.

#### Workflow Notification Properties <a>2</a>

Before configuring the Workflow Notification, configure the Messaging Serv

Notification Mode All
Notification Service
* Email : From Address * me@me.com

#### **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:

₩ UMSAdapter	Active	🖋 ОК	Resource Adapter	330
Eusermessagingdriver-email	Active	🖋 ОК	Enterprise Application	200
€ Cusermessagingdriver-extension	Installed		Enterprise Application	205
	Active	🖋 ок	Enterprise Application	203
⊡	Installed		Enterprise Application	204
	Installed		Enterprise Application	202
Busermessagingserver	Active	🖋 ОК	Enterprise Application	100

2 Navigate to WebLogic Enterprise Manager, right click on the **soa-infra** node then select SOA Administration and Workflow Properties:

👻 🏯	Topology									
			Farm soa domain 🗊						Logg	ed in as web
arm_soa_d	domain							Pa	age Refreshed Jul 26, 2013	8:29:37 AM PI
Applicati	on Deployments									
SOA			✓ Deployments			2	Fusion Middleware			© •
Concession in succession in the local division in the local divisi	Home									
> D WebL										
> 🚞 Metad > 🚞 User N	Monitoring				Up (93)				Up (5)	
_	Logs	,	100%		ob (20)		100%		• op (o)	
	SOA Deployment	•								
	Manage Partitions									
	Service Engines	•	Name	Status	Target		Name	Status	Host	CPU Usage
	Bindings	•	Application Deployments			-	V 🎦 WebLogic Domain			(%)
	Services and References		Internal Applications							
	Business Events	1	Resource Adapters					$\wedge$	2606:b400:2010:404	0.40
	SOA Administration	Common Properties	Composer	Ŷ	soa_server1		Soa_server1	- ጉ - ጉ	2606:b400:2010:404 2606:b400:2010:404	0.13
	Security		DefaultToDoTaskFlow	Ŷ	soa_server1	=		U	2606:0400:2010:404	1.00
	Administration	BPEL Properties	eworklistapp	Û	soa_server1	Metadata Repositories	-		2606:b400:2010:404	
		<ul> <li>Mediator Properties</li> </ul>	V 🛅 SOA			_				
	General Information	Workflow Properties	⊽ 🚟 soa-infra	Ŷ	soa_server1	_	⊘mds-soa     User Messaging Service		2606:b400:2010:404	
		B2B Server Properties	V (mage CCB2-MDM2	Û				$\wedge$	2606:b400:2010:404	
		Cross References	et a for the second sec	Û			usermessagingdriver-email (soa     usermessagingdriver-smpp (soa	습 - 습	2606:b400:2010:404 2606:b400:2010:404	
		Token Configurations	et a ErrorHandlingHumanIntervention [1.0]	Û				្ឋ ជ		
			e G ErrorProcessingDetail [1.0]	Û			usermessagingserver (soa_serv	u	2606:b400:2010:404	
			GerrorProcessingMaster [1.0]	Û			✓ Farm Resource Center	_		
			OUCCB2OUMDM2BatchBDReqEBF [1.0]	Û			rann kesource Center			
			OUCCB2OUMDM2HighLowReadRegEBF	$\mathbf{\hat{v}}$			Before You Begin			

3 Ensure that the Work flow notification properties are set as "All".

ORACLE Enterprise Manager 11g Fusion Middleware	Control	Setup ▼ Help ▼ Log Out
📲 Farm 👻 🚑 Topology		
Form - Copology Image: Solution Deployments Image: Solution Deployme	SoA Infrastructure + SoA Infrastructure + SoA Infrastructure + SoA Infrastructure + Maile Task  SoA Infrastructure Home > Workflow Notification Properties Haile Task  Task  Maile Task  Motification Properties Before configuring the Workflow Notification, configure the Messaging Service Driver. Go to the Messaging Driver page  Notification Service  * Notification Service  * Email : From Address * me@me.com * Email : Reply To Address * no.reply@yourdomain.com More Workflow Notification Configuration Properties	Logged in as weblogic  Host Page Refreshed Jul 26, 2013 8:30:21 AM PDT () Related Linics ~ Apply Revert

4 Expand the User Messaging service node in the EM left panel as follows:

V	🛅 User Messaging Service
	usermessagingdriver-email (soa_server 1)
	usermessagingdriver-smpp (soa_server 1)
	🐼 usermessagingserver (soa_server1)

- **5** Ensure that all these applications are enabled.
- 6 Select the usermessagingserver entry, which should have smpp and email enabled as shown in the following image.

Farm 👻 💑 Topology			
∃ ▼ ■≩ Farm_soa_domain	<ul> <li>☆ usermessagingserver </li> <li>☆ User Messaging Service </li> </ul>	Logged in as <b>weblogi</b> c Host Page Refreshed Jul 26, 2013 8:35:50 /	AM PD
<ul> <li>▷ Application Deployments</li> <li>▽ SOA</li> <li>▽ 菜 soa-infra (soa_server 1)</li> </ul>	Col Al		
▷ (ĝ) CCB2-MDM2 (ĝ) default ▷ (ĝ) OUCSS	Name Farm_coa_domain/coa_cenver1/usermaccagingdriver-cmpp	Driver Type Status Configure Driv User Meccaging SMPP Driver 😧	iver
	/Farm_soa_domain/soa_domain/soa_server1/usermessagingdriver-email	User Messaging Email Driver 🗘 🥒	
usermessagingdriver-email (soa_server 1)     usermessagingdriver-smpp (soa_server 1)			
	✓ Message Latency 50		
usermessagingdriver-smpp (soa_server 1)		Messages Sent Successfully 74	⊕
usermessagingdriver-smpp (soa_server 1)	60		÷.
usermessagingdriver-smpp (soa_server 1)	60 50 40 30	Messages Sent Successfully 74 Messages Sent Failed 12	© •
usermessagingdriver-smpp (soa_server1)	60 50 40	Messages Sent Successfully 74 Messages Sent Failed 12 Messages Received Successfully 0 Messages Received Failed 0	©

#### **Verify SMPP Properties**

1 Click on the button for the Configure Driver with the following entities:

Farm 👻 🚑 Topology									
<b>▼</b>		river-smpp 👔			Logged in as weblo	ogic Host			
Farm_soa_domain	User Messaging SMPP D	river •				Page Refreshed Jul 2	6, 2013 8:39:2	8 AM PD1	
Application Deployments									
SOA	<ol> <li>Information</li> </ol>								
▽ 🚟 soa-infra (soa_server 1)	All changes made in this page require a server restart to take effect.								
	SMPP Driver Prope	rtioc					Apply	Rever	
🔞 default	SMPP Driver Prope	rues				Gr Related Links +	Арргу	Rever	
⊳ @ oucss	For detailed description of	the driver properties, refer to the Administ							
▷ 🔞 OUNC	Speed				DELIVERY_TO_GATEWAY_SUCCESS, DELIVER				
Metadata Repositories			Sending	Queues Info	OraSDPM/QueueConnectionFactory:OraSDPM	I/Queues/OraSDPMDriverDe	-		
User Messaging Service	Sender Addresses								
Usermessagingdriver-email (soa_server1)	Default Sender Address								
usermessagingdriver-smpp (soa_server1)	Driver-Specific Cor	nfiguration							
usermessagingdriver-smpp (soa_server1)     usermessagingserver (soa_server1)	Driver-Specific Cor     Name	nfiguration	Mandatory	Encoded	Value				
	Name	Description		Encoded Credential					
	1		Mandatory	Encoded Credential	Value				
	Name	Description		Encoded Credential					
	Name SmsAccountId	Description Account Identifier on SMSC	~	Encoded Credential					
	Name SmsAccountId SmsServerHost	Description Account Identifier on SMSC SMSC server host name (or IP address)	*	Encoded Credential	pavel				
	Name SmsAccountId SmsServerHost TransmitterSystemId	Description Account Identifier on SMSC SMSC server host name (or IP address) Account ID used to send out messages	*	Encoded Credential	pavel pavel				
	Name SmsAccountId SmsServerHost TransmitterSystemId ReceiverSystemId	Description Account Identifier on SMSC SMSC server host name (or IP address) Account ID used to send out messages Account ID used to receive messages The type of transmitter system. The		Encoded	pavel pavel pavel				
	Name SmsAccountId SmsServerHost TransmitterSystemId ReceiverSystemId TransmitterSystemType ReceiverSystemType	Description Account Identifier on SMSC SMSC server host name (or IP address) Account ID used to send out messages Account ID used to receive messages The type of transmitter system. The default value is Logical The type of receiver system. The default	-> -> -> -> ->	Encoded Credential	pavel pavel pavel Logica Logica Type of Password Use Cleartext Password				
	Name SmsAccountId SmsServerHost TransmitterSystemId ReceiverSystemType ReceiverSystemType TransmitterSystemType TransmitterSystemPassword	Description Account Identifier on SMSC SMSC server host name (or IP address) Account ID used to send out messages Account ID used to receive messages The type of transmitter system. The default value is Logica' The type of receiver system. The default value is Logica'		Credential	pavel pavel Logica Logica				

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

#### **Verify Email Properties**

1 Navigate to the User Messaging Service tab in the Enterprise Manager Console and select the **usermessagingserver**:

ORACLE Enterprise Manager 11g Fusion Mid	dleware Control	Setup + Help + L
If Form < Image: Topology         Imag	User Messaging Service *  User Messaging Service *  Social cel Drivers Local A  Name Firm_soa_domain/soa_domain/soa_server1/usermessagingdriver-emal	Logged in as weblogic  Host Page Refreshed Jul 26, 2013 8:35:50 AM PD Driver Type Status Configure Driver User Messaging SMRP Driver 🕆 🖉
	Message Latency 60 40 30 20 10 08:24 08:27 08:30 08:33 10/2 26 2013 - Sending Latency (ms) - Receiving Latency (ms)	<ul> <li>✓ Statistics</li> <li>♦ Messages Sent Successfully 74 Messages Sent Failed 12 Messages Received Jocussfully 0 Messages Received Failed 0</li> <li>✓ Resource Center</li> <li>♦ Before You Begin</li> <li>② Introduction to Orade SOA Suite</li> <li>© Getting Started with Administering Orade SOA Suite with Orade Enterprise @ Getting Started with Administering Orade SOA Suite with Orade Enterprise</li> <li>Mager</li> <li>Typical Administration Tasks</li> <li>③ Administering Orade User Messaging Service</li> </ul>

2 Click on the button adjacent to the usermessagingdriver-email and validate all the properties from that of the InstallProperties.xml mentioned in the Appendix are reflected in the below picture.

ORACLE Enterprise Manager 11g Fusion Middleware C	Control					Setup 🔻 Help 👻 Log Out
📲 Farm 👻 🚑 Topology						
	🕆 usermessaging	driver-email 🕦			Logged in as weblogic Host	
▽ 📑 Farm_soa_domain	🐼 User Messaging Email I	Driver 🕶			Page Refreshe	d Jul 26, 2013 8:48:19 AM PDT 🗘
Application Deployments SOA	(i) Information					
V Weights soa-infra (soa_server1) ▷ () CCB2-MDM2	All changes made in th	is page require a server restart to take effect	:t.			
🔞 default	Email Driver Prope	erties			P Related Link	s • Apply Revert
⊳(ĝ) oucss ⊳(ĝ) ounc		of the driver properties, refer to the Administ			A Suite. DELIVERY_TO_GATEWAY_SUCCESS,	•
WebLogic Domain	Sender Addresses	5			DELIVERY_TO_GATEWAY_FAILURE,	
Metadata Repositories           Image: Service	Default Sender Address	5	Sending	Queues Info	USER_REPLY_ACKNOWLEDGEMENT_SUCCESS, OraSDPM/QueueConnectionFactory:OraSDPM/Queues/OraSDPMDri	.:: iverDefSndO1
Our inclusion public for the server of th	✓ Driver-Specific Co Name RetryLimit	Description server, if the connection is lost due to	Mandatory	Encoded Credential	Value	
	ice di yenne	some reason. The default value is -1 which means no limit to the number of tries.			<u>۸</u>	=
	MailDelFreq	The frequency to permanently remove deleted messages. The unit is in seconds and the default value is 600 seconds. A negative value indicates the messages should not be expunged. For the POP3 protocol, the message is expunged after it is processed.			600	E
	AutoDelete	Whether the driver should mark the messages deleted after they have been processed. The default is disabled. For the POP3 protocol, the messages are always deleted right after they are processed.				

#### **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.

Domain Structure soa_domain Environment	^	connection from a data source.		base connectivity through a pool of JDBC connections. App	plications can look up a data source on the JI	IDI tree and then borrow a database
Deployments Services Messaging Data Sources	Ξ	This page summarizes the JDBC data source	objects that have been created	d in this domain.		
Persistent Stores Foreign JNDI Providers		Data Sources (Filtered - More Column	Friet)			
Work Contexts XML Registries XML Entity Caches		New - Delete			s	iowing 1 to 14 of 14 Previous   Nex
jCOM		🔲 Name 🖘	Туре	JNDI Name	Targets	
Mail Sessions File T3	-	CCB2-MDM2EHDS	Generic	jdbc/CCB2-MDM2EHDS	soa_server1	
How do I	-	CSSNMSDataSource1	Generic	jdbc/CSSNMSDataSource1	soa_server1	
Create JDBC generic data sources		CSSNMSMultiDS	Multi	jdbc/CSSNMSMultiDS	soa_server1	
Create JDBC GridLink data sources		EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1	
Create JDBC multi data sources		EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1	
<ul> <li>Delete JDBC data sources</li> </ul>		mds-owsm	Generic	jdbc/mds/owsm	AdminServer, soa_se	ver1
<ul> <li>Delete JDBC multi data sources</li> </ul>		mds-soa	Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_se	ver1
		OraSDPMDataSource	Generic	jdbc/OraSDPMDataSource	soa_server1	
System Status	-	OUCSSEHDS	Generic	jdbc/OUCSSEHDS	soa_server1	
Health of Running Servers		OUNCDS	Generic	jdbc/OUNCDS	soa_server1	7
Failed (0)		OUNCEHDS	Generic	jdbc/OUNCEHDS	soa_server1	
Critical (0)		OUNCNMSDS	Generic	jdbc/OUNCNMSDS	soa_server1	
Overloaded (0) Warning (0)		SOADataSource	Generic	jdbc/SOADataSource	soa_server1	
OK (2)		SOALocalTxDataSource	Generic	jdbc/SOALocalTxDataSource	soa server1	

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.

soa_domain ^	Save			
Deployments				
-Services	The connection pool within a JDB	C data source contains a group of JDBC connections that application	ns reserve, use, and then retur	rn to the pool. The connection pool and the connections within it are created when
Data Sources	the connection pool is registered,	usually when starting up WebLogic Server or when deploying the o	data source to a new target.	
Persistent Stores	Use this page to define the config	guration for this data source's connection pool.		
Foreign JNDI Providers				
Work Contexts	街 URL:	jdbc:oracle:thin:@	1 1	The URL of the database to connect to. The format of the URL varies by JDBC
XML Entity Caches	<b></b>	Jube.oracle.tim.@		river. More Info
jCOM				
Mail Sessions	🔠 Driver Class Name:	oracle.jdbc.xa.client.OracleXADataSource		The full package name of JDBC driver class used to create the physical database
File T3		·		connections in the connection pool. (Note that this driver class must be in the classpath of any server to which it is deployed.) More Info
low do I 🖂				assperior any server to where is deployed. J Pore and
Configure testing options for a JDBC data	Interpretenties:		т	The list of properties passed to the JDBC driver that are used to create physical
source	user=1		d	latabase connections. For example: server=dbserver1. List each property=value
Configure the statement cache for a JDBC	DatabaseName=		F	pair on a separate line. More Info
connection pool				
Configure credential mapping for a JDBC data				
source				
Configure connection harvesting for a connection pool				
connection poor	C			the last of fourthear from the state of the
ystem Status	System Properties:			The list of System Properties names passed to the JDBC driver that are used to create physical database connections. For example: server=dbserver1. List each
				property=value pair on a separate line. More Info
lealth of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				
OK (2)	👍 Password:	•••••		The password attribute passed to the JDBC driver when creating physical database
			c	connections. More Info
	Confirm Password:	*************		
WebLogic Server* Ad				
inge Center	🚹 Home Log Out Preferences 📐	Record Help		Welcome, weblogic Connected to: soa_do
w changes and restarts	Home >Summary of JDBC Data Source	es >OUNCDS		
	Messages			
nfiguration editing is enabled. Future inges will automatically be activated as you	Test of OUNCDS on server soa_	server1 was successful.		
lify, add or delete items in this domain.				
	Settings for OUNCDS			
nain Structure	Configuration Targets Monitor	oring Control Security Notes		
_domain				
Environment Deployments	Statistics Testing			
Services				
Messaging	Use this page to test database cor	practions in this 10BC data source		
Data Sources	Use this page to test tatabase con			
Persistent Stores				
Foreign JNDI Providers Work Contexts	Customize this table			
XML Registries	Test Data Source (Filtered - M	ore Columns Exist)		
XML Entity Caches	rese bata source (meerea m			
jCOM	Test Data Source			Showing 1 to 1 of 1 Previous   Nex
Mail Sessions	_			
	Server		5	itate
do I 😑	soa_server1		R	unning
st JDBC data sources	Test Data Source			
onfigure testing options for a JDBC data	Test Data Source			Showing 1 to 1 of 1 Previous   Nex
purce				
tem Status 🖂				
N				
lth of Running Servers				
th of Running Servers Failed (0)				
-				
Failed (0)				
Critical (0)				

### **JMS Configurations**

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

Change Center	🔒 Home Log Out Preferences 🔤 Recor	rd Help		Welcome	, weblogic Connected to: soa_dom
View changes and restarts	Home >Summary of JDBC Data Sources >OU	NCDS >Summary of Deployments >DbAdapter >Summa	ry of JMS Servers		
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Summary of JMS Servers				
	JMS servers act as management container	rs for the queues and topics in JMS modules that are t	argeted to them.		
Domain Structure aa_domain	This page summarizes the JMS servers tha	at have been created in the current WebLogic Server	domain.		
⇒-Services ⇒-Messaging ⇒-JMS Servers	JMS Servers (Filtered - More Column	ıs Exist)			
Store-and-Forward Agents JMS Modules	New Delete				Showing 1 to 6 of 6 Previous   Next
JMS Modules Path Services	New Delete	Persistent Store	Target	Current Server	Showing 1 to 6 of 6 Previous   Next Health
JMS Modules Path Services Path Services Data Sources		Persistent Store BPMJMSFileStore	Target soa_server1	Current Server soa_server1	
JMS Modules Path Services Data Sources Persistent Stores	🔲 Name 🌣				Health
JMS Modules Path Services B-Bridges Data Sources	Name  PMJMSServer	BPMJMSFileStore	soa_server1	soa_server1	Health V OK
JMS Modules Path Services B)-Bridges Data Sources Persistent Stores Foreign JND2 Providers Work Contexts	Name      PMIMSServer     CCB2MDM215     OUNCIMSServer	BPMJMSFileStore CCB2MDM2FS	soa_server1 soa_server1	soa_server1 soa_server1	Health V OK V OK
MS ModulesPath Services Bi-BridgesData SourcesPersistent StoresForeign JNDI Providers	Name      PMIMSServer     CCB2MDM215     OUNCIMSServer	BPMJMSFileStore CCB2MDM2FS OUNCFileStore	soa_server1 soa_server1 soa_server1	soa_server1 soa_server1 soa_server1	Health           ✓ OK           ✓ OK           ✓ OK
JMS Modules Path Services ED Bridges Data Sources Persistent Stores Foreign JNDI Providers Work Contexts	Name      Name      PMIMSserver     CG82MDM218     OUNCIMSserver     PS6SOAJMSServer     SOAJMSServer     UMSJMSServer     UMSJMSServer	BPMIMSFileStore CC82MDM2FS OUNCFileStore PS6SOAJMSFileStore	soa_server1 soa_server1 soa_server1 soa_server1	soa_server1 soa_server1 soa_server1 soa_server1 soa_server1	Health           ♥ OK           ♥ OK
JMS Modules	Name ŵ       BPMJMSServer       CCB2MDM23S       OUNCJMSServer       PSSS0AJMSServer       SGAMSServer       UMSJMSServer       New	CCB2MDM3FleStore CCB2MDM3Fs OUNCFleStore PS6SOAJMSFleStore 30A3MSFleStore	soa_server1 soa_server1 soa_server1 soa_server1 soa_server1	soa_server1 soa_server1 soa_server1 soa_server1 soa_server1 soa_server1	Health           ♥ OK           ♥ OK           ♥ OK           ♥ OK           ♥ OK           ♥ OK

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

odify, add or delete items in this domain.	Configuration	Subdeployments	Targets	Security Note	5		
omain Structure	This page displa	ays general informati	on about a Ji	MS system module	and its resources. It also allows you to configure new res	ources and access existing resources.	
a_domain ^							
Deployments	Name:			OUNC	JMSModule	The name of this JMS system module. Mor	re Info
	Descriptor File	Name:		jms/o	uncjmsmodule-jms.xml	The name of the JMS module descriptor file.	. More Info
JMS Modules Path Services ⊡-Bridges		narizes the JMS resou tinations, foreign ser			or this JMS system module, including queue and topic dest arameters.	tinations, connection factories, JMS templates, de	estination sort keys, destination quota
Data Sources Persistent Stores Foreign JNDI Providers	Customize th	iis table					
Work Contexts		_					
SWORK CONTEXTS	Summary of R	lesources					
ow do I	Summary of F						Showing 1 to 6 of 6 Previous   1
w do I  Configure JMS system modules Configure subdeployments in JMS system		ste		Туре	JNDI Name	Subdeployment	Showing 1 to 6 of 6 Previous   1 Targets
w do L 🛛	New Dele	ste		<b>Type</b> Queue	JNDI Name jns/OUNC/NotifDeliveryErrQueue	Subdeployment OUNCSubdeployment	
w do L 🛛	New Dele	ete eryErrQueue					Targets
w do I Configure JMS system modules iconfigure subdeployments in JMS system nodules iconfigure resources for JMS system modules	New Dele	ete eryErrQueue		Queue	jms/OUNC/NotifDeliveryErrQueue	OUNCSubdeployment	Targets           OUNCIMSServer
w do I  Configure JMS system modules Configure subdeployments in JMS system modules Configure resources for JMS system modules stem Status	New Dele	ete eryErrQueue eryTopic undErrQueue		Queue	jms/OUNC/NotifDeliveryErrQueue jms/OUNC/NotifDeliveryTopic	OUNCSubdeployment OUNCSubdeployment	Targets           OUNCIMSServer           OUNCIMSServer
w do I  Configure JMS system modules Configure subdeployments in JMS system modules Configure resources for JMS system modules stem Status	New Dele Name & NotifDelivi NotifDelivi NotifInbo.	ete eryErrQueue eryTopic undErrQueue		Queue Topic Queue	jms/OUINC/NotifDeliveryErrQueue jms/OUINC/NotifDeliveryTopic jms/OUINC/NotifInboundErrQueue	OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment	Targets           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer
v do L  Configure JMS system modules Configure subdeployments in JMS system modules Configure resources for JMS system modules  Ither Status  Failed (0)	New Dele Name & NotifDelw NotifDelw NotifInbo. NotifInbo. NotifInbo.	eryErrQueue eryTopic undErrQueue undQueue		Queue Topic Queue Queue	jms/OUNC/NotifDeliveryErrQueue jms/OUNC/NotifDeliveryTopic jms/OUNC/NotifInboundErrQueue jms/OUNC/NotifInboundQueue	OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment	Targets           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer
v do L      Configure JMS system modules     Configure subdeployments in JMS system     modules     configure resources for JMS system modules      tem Status     Failed     (0)     Critical (0)	New Dele Name & NotifDelw NotifDelw NotifInbo. NotifInbo. NotifInbo.	ete eryErrQueue eryTopic undErrQueue undQueue stenceErrQueue stenceQueue		Queue Topic Queue Queue Queue Queue	jms/OUNC/NotifDeliveryErrQueue jms/OUNC/NotifDeliveryTopic jms/OUNC/NotifInboundErrQueue jms/OUNC/NotifInboundQueue jms/OUNC/NotifInboundQueue	OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment	Targets           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer           OUNCIMSServer
w do L  Configure JMS system modules Configure subdeployments in JMS system modules Configure resources for JMS system modules stem Status Faileh of Running Servers Failed (0)	New Dele Name & NotifDelw NotifDelw NotifInbo NotifInbo NotifInbo	ete eryErrQueue eryTopic undErrQueue undQueue stenceErrQueue stenceQueue		Queue Topic Queue Queue Queue Queue	jms/OUNC/NotifDeliveryErrQueue jms/OUNC/NotifDeliveryTopic jms/OUNC/NotifInboundErrQueue jms/OUNC/NotifInboundQueue jms/OUNC/NotifInboundQueue	OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment OUNCSubdeployment	Targets       OUNCJMSServer       OUNCJMSServer       OUNCJMSServer       OUNCJMSServer       OUNCJMSServer       OUNCJMSServer       OUNCJMSServer

#### **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**, select the **Configuration** tab and select the **Outbound Connection Pools** tab.
- **3** Expand oracle.tip.adapter.jms.IJmsConnectionFactory.

Foreign JNDI Providers Work Contexts		lew Delete	Showing 1 to 1 of 1 Previous   Nex
XML Registries XML Entity Caches		Groups and Instances 🗞	Connection Factory Interface
jCOM Mail Sessions		orade.tip.adapter.jms.IJmsConnectionFactory	oracle.tip.adapter.jms.IJmsConnectionFactory
File T3	-	] eis/activemg/Queue	orade.tip.adapter.jms.IJmsConnectionFactory
How do I	8	] eis/aqjms/Queue	orade.tip.adapter.jms.IJmsConnectionFactory
<ul> <li>Configure outbound connection pool</li> </ul>		] eis/aqjms/Topic	oracle.tip.adapter.jms.IJmsConnectionFactory
properties		] eis/fioranomq/Topic	orade.tip.adapter.jms.IJmsConnectionFactory
System Status		] eis/jbossmq/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
		] eis/pramati/Queue	orade.tip.adapter.jms.IJmsConnectionFactory
lealth of Running Servers		] eis/sunmq/Queue	orade.tip.adapter.jms.IJmsConnectionFactory
Failed (0)		] eis/tibjms/Queue	orade.tip.adapter.jms.IJmsConnectionFactory
Critical (0) Overloaded (0)		] eis/tibjms/Topic	orade.tip.adapter.jms.IJmsConnectionFactory
Warning (0)		] eis/tibjmsDirect/Queue	orade.tip.adapter.jms.IJmsConnectionFactory
OK (2)		] eis/tibjmsDirect/Topic	orade.tip.adapter.jms.IJmsConnectionFactory
		] eis/webspheremg/Queue	orade.tip.adapter.jms.IJmsConnectionFactory
		eis/wls/OUCCB2Queue	orade.tip.adapter.jms.IJmsConnectionFactory
	E	] eis/wls/OUMDM2Queue	orade.tip.adapter.jms.IJmsConnectionFactory
		eis/wls/OUNCQueue	orade.tip.adapter.jms.IJmsConnectionFactory
	E	] eis/wls/OUNCTopic	orade.tip.adapter.jms.IJmsConnectionFactory
		] eis/wls/Queue	oracle.tip.adapter.jms.IJmsConnectionFactory
		] eis/wls/Topic	oracle.tip.adapter.jms.IJmsConnectionFactory
		lew Delete	Showing 1 to 1 of 1 Previous   Nex

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

ORACLE WebLogic Serve	Administra	tion Console								Q				
Change Center	Home	e Log Out Prefer	ences 📐 Re	cord Help		Q			Welcome, web	logic Connected to: soa_domai				
View changes and restarts	Home >	Summary of Deploy	yments > <b>JmsAd</b>	lapter										
Configuration editing is enabled. Future	Settings	Settings for oracle.tip.adapter.jms.IJmsConnectionFactory												
changes will automatically be activated as you modify, add or delete items in this domain.	General	Properties	Transaction	Authentication	Connection Po	ool Logging								
Domain Structure														
oa_domain ∄-Environment	· · ·			y the configuration	n properties of th	nis outbound cor	nection pool. Properties you m	odify here are saved to a deployme	ent plan.					
Deployments Services Security Realms	Save	und Connection	Properties						Shov	ving 1 to 7 of 7 Previous   Next				
Interoperability	Prope	erty Name 🐟				Property Typ		Property Value						
	Acknow	AcknowledgeMode						AUTO_ACKNOWLEDGE						
	Conne	ConnectionFactoryLocation				ava.lang.string		weblogic.jms.XAConnectionFacto	ory	1				
	Factor	FactoryProperties				iava.lang.String		ClientID=ouncClientID						
	IsTopic	:			1	java.lang.Boole	n	true						
	IsTran	sacted			i	java.lang.Boole	n	false						
low do I	Passwe	ord			1	java.lang.String								
Configure outbound connection pool	Userna	ime			t	java.lang.String								
properties	Save								Shov	ving 1 to 7 of 7 Previous   Next				
System Status														
Health of Running Servers														
Failed (0)														
Critical (0)														
Overloaded (0)														
Warning (0)														
OK (2)														

- 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.

hange Center	🔒 Home Log Out Preferences 📐 Record Help	Q	Welcome, weblogic Conne	cted to: soa_doma
liew changes and restarts	Home >Summary of Deployments >JmsAdapter			
onfiguration editing is enabled. Future	Settings for oracle.tip.adapter.jms.IJmsConnection	Factory		
hanges will automatically be activated as you nodify, add or delete items in this domain.	General Properties Transaction Authentication	Connection Pool Logging		
omain Structure				
oa_domain	This page allows you to view and modify the configuration	properties of this outbound connection pool. Pro	perties you modify here are saved to a deployment plan.	
Environment Deployments	Outbound Connection Properties			
B-Services Security Realms	Save		Showing 1 to 7 of 2	7 Previous   Next
Interoperability Diagnostics	Property Name 🐟	Property Type	Property Value	
	AcknowledgeMode	java.lang.String	AUTO_ACKNOWLEDGE	
	ConnectionFactoryLocation	java.lang.String	weblogic.jms.XAConnectionFactory	
	FactoryProperties	java.lang.String		
	IsTopic	java.lang.Boolean	false	
	IsTransacted	java.lang.Boolean	false	
ow do I E	Password	java.lang.String		
Configure outbound connection pool properties	Username	java.lang.String		
properties	Save		Showing 1 to 7 of	7 Previous   Next
ystem Status				
lealth of Running Servers				
Failed (0)				
Critical (0)				
Overloaded (0)				
Warning (0)				

#### **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.

ORACLE WebLogic Server®	' Administrat	tion Console										ç	
Change Center	Home	Log Out Pref	erences 📐 Record Help			Q					Welcome, weblogic Cor	nected to: soa_dom	
View changes and restarts	Home >S	Summary of JDB	C Data Sources >OUNCD5 >	Summary	of Deployments	>DbAdapt	er						
Configuration editing is enabled. Future	Settings f	Settings for DbAdapter											
changes will automatically be activated as you modify, add or delete items in this domain.	Overview	v Deploymen	t Plan Configuration	Securit	y Targets	Control	Testing	Monitoring	Notes	3			
Domain Structure	General	Properties	Outbound Connection	Pools	Admin Objects	Worklo	ad In	trumentation					
i~Deployments ⊕-Services ⊕-Security Realms ⊕-Interoperability ⊕-Diagnostics	name of	fagroup or ins	erface and the instances and the instances and the configure it. Auto	matically g						n information for a Connection Pool instance v below.		Pool group. Click the f 1 Previous   Next	
	G	roups and In	stances 🗞						c	connection Factory Interface			
	E	javax.resourc	e.cci.ConnectionFactory						ja	javax.resource.cci.ConnectionFactory			
		eis/DB/CCB2-	MDM2ErrorHandling						ja	wax.resource.cci.ConnectionFactory			
low do I 😑		eis/DB/CSSNM	IS						ja	wax.resource.cci.ConnectionFactory			
Configure outbound connection pool		eis/DB/OUCSS	ErrorHandling						ja	wax.resource.cci.ConnectionFactory			
properties		eis/DB/OUNC							ja	wax.resource.cci.ConnectionFactory			
System Status 🖂		eis/DB/OUNCE	ErrorHandling						ja	wax.resource.cci.ConnectionFactory			
system status =		eis/DB/OUNCM	NMS						ja	wax.resource.cci.ConnectionFactory			
Health of Running Servers		eis/DB/SOADe	emo						ja	avax.resource.cci.ConnectionFactory		-	
Failed (0)		eis/DB/SOADe	emoLocalTx						ja	wax.resource.cci.ConnectionFactory			
Critical (0) Overloaded (0) Warning (0)	New	Delete									Showing 1 to 1 o	f1 Previous   Next	
OK (2)													

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

- WebLogic Server	Administration Console						7						
hange Center	Home Log Out Preferences	Record Help	٩			Welcome, weblogic	Connected to: soa_dom						
iew changes and restarts	Home >Summary of Deployments	s >JmsAdapter >Summary of	JDBC Data Sources >	OUNCDS >Sur	mary of Deployments >DbAdapter								
onfiguration editing is enabled. Future	Settings for javax.resource.o	Settings for javax.resource.cci.ConnectionFactory											
hanges will automatically be activated as you nodify, add or delete items in this domain.	General Properties Trans	nsaction Authentication	Connection Pool	Logging									
a_domain  - EnvironmentDeployments	This page allows you to view an Outbound Connection Prope		n properties of this ou	itbound conne	ction pool. Properties you modify here are saved to a deployment plan.								
-Services  -Messaging	Save					Showing 1 to	8 of 8 Previous   Next						
Data Sources Persistent Stores	Property Name 🕎	Pi	roperty Type		Property Value								
Foreign JNDI Providers Work Contexts	dataSourceName	jav	va.lang.String										
XML Registries	defaultNChar	jav	java.lang.Boolean		false								
XML Entity Caches jCOM	platformClassName	jav	java.lang.String		org.eclipse.persistence.platform.database.Oracle10Platform								
Mail Sessions	sequencePreallocationSize	jav	va.lang.Integer		1								
File T3	usesBatchWriting	jav	va.lang.Boolean		true								
ow do I	usesNativeSequencing	jav	va.lang.Boolean		true								
Configure outbound connection pool properties	usesSkipLocking	jav	va.lang.Boolean		true								
properues	xADataSourceName	jav	va.lang.String		jdbc/OUNCDS								
ystem Status	Save					Showing 1 to	8 of 8 Previous   Next						
alth of Running Servers													
Failed (0)	1												
Critical (0)													
Overloaded (0)													
Warning (0)													

**5** Verify all other Outbound Connection instances.

OK (2)

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	17

- 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 OUCSS 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 16 composites are deployed and in active state:

📲 ErrorHandling [1.0]
📲 ErrorHandlingHumanIntervention [1.0]
📲 ErrorProcessingDetail [1.0]
📲 E GrProcessingMaster [1.0]
OUNCDeliverDeferred [1.0]
OUNCEmailConnector [1.0]
📲 OUNCNMSNotificationInbound [1.0]
OUNCNotificationInbound [1.0]
OUNCPersistNotification [1.0]
OUNCRouteNotification [1.0]
OUNCSmppConnector [1.0]
🛯 🔐 OUNCWXDeliveryChannels [1.0]
🖬 OUNCWXGetNotifications [1.0]
OUNCWXNotificationPreferences [1.0]
📲 PurgeIntegrationErrorStore [1.0]
📲 UpdateIntegrationErrorLookupTable [1.0]

#### 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 right-click soa\_domain > Security > Credentials.

Farm 👻 🚟 SC	DA Infrastructure 👻 👗 Topology											
1 -								Logged in as	weblogic Host			
Farm_soa_do	omain		SOA Partition •						Page Refreshed Jul 26, 2013 7:53:26 AM PDT			
Contraction Deployments      SOA			U SOAT GIUGON									
			Composites Control	<ul> <li>Deployment </li> </ul>					P Related Lin			
⊽ 🚟 soa-in	fra (soa_server1)											
🕞 🔞 co			Partitions are logical group	ings of composites to help	vouman	age large deployn	ents. The following SOA o	omposite revisions are deploye	Recent Instances and Faults for the last 24 hou			
🔞 det	fault			ingo or composited to riep	, you mun	age laige deployin	iental the following bor o	omposite revisions are deploye				
Þ 🍘 ou	CSS											
> 🔞 ou	NC							Search	Search Composite (full or partial name)			
📋 WebLogic									Composite Revisions Fou			
🖻 📩 soa	Home		Composite		Status	Mode	Instances	Deployed ?				
🚞 Metadai							Total	Faulted				
🚞 User Me	Control +		<ul> <li>OUNCWXNotification</li> </ul>	Preferences [1.0]	Û	Active	37	0 Jul 24, 2013 5:24:				
	Logs		ErrorHandling [1.0]		Û	Active	0	0 Jul 24, 2013 5:17:				
	Port Usage		<ul> <li>OUNCSmppConnect</li> </ul>		Û	Active	4	0 Jul 24, 2013 5:22:				
	Application Deployment		<ul> <li>OUNCWXDeliveryCh</li> </ul>		Û	Active	37	0 Jul 24, 2013 5:23:				
	SOA Deployment		<ul> <li>OUNCWXGetNotifica</li> </ul>		Û	Active	134	0 Jul 24, 2013 5:23:				
			ErrorHandlingHumar		Ŷ	Active	0	0 Jul 24, 2013 5:19:				
		Web Services	<ul> <li>OUNCNotificationIn</li> </ul>		Ŷ	Active	11	0 Jul 24, 2013 5:21:				
	ADF Domain Configuration		OUNCEmailConnect		Ŷ	Active	3	0 Jul 24, 2013 5:21:				
	Security +	Credent	tials	Inbound [1.0]		Active	0	0 Jul 24, 2013 5:20:				
	Metadata Repositories	Security	Provider Configuration	[1.0] [1.0]		Active	2	0 Jul 24, 2013 5:20: 0 Jul 24, 2013 5:18:				
	JDBC Data Sources	Applicat	tion Policies	r [1.0]		Active	0	0 Jul 24, 2013 5:18: 0 Jul 24, 2013 5:18:				
	System MBean Browser	Applicat	tion Roles	orLookupTable [1.0]		Active	0	0 Jul 24, 2013 5:20:				
	WebLogic Server Administration Console	Keystor		rStore [1.0]		Active	0	0 Jul 24, 2013 5:19:				
	General Information			on [1.0]		Active	6	0 Jul 24, 2013 5:22:				
		System	Policies	on [1.0]	1 1	Active	11	0 Jul 24, 2013 5:22:				
		Audit Po	blicy									

**3** Ensure that the following entry is present in the list:

•	soa domain 🕡			Logged in as weblo
Farm_soa_domain	WebLogic Domain 🔻			Page Refreshed Jul 26, 2013 7:54:25 AM PDT
Application Deployments				
SOA	Credentials			
♥ 🚟 soa-infra (soa_server1)	A credential store is the repository of secu consolidated service provider to store and			ations. Applications can use the Credential Store, a single,
▷ 🔞 CCB2-MDM2		manage their credentials secure	ay.	
(ĝ) default ▷ (ĝ) OUCSS	≥ Credential Store Provider			
	👍 Create Map 👍 Create Key	/ Edit 💥 Delete 🛛 🕻	redential Key Name	
WebLogic Domain	Credential	Туре	Description	•
V 🕂 soa_domain	▷ BPM-CRYPTO		· · · · · · · · · · · · · · · · · · ·	
AdminServer				
soa_server1	OU_CCB_01     OU_CCCB_01     OU_CCB_01      OU_CCB_01     OU_CCB	Password	CCB Edge Application WS Credentials	
Metadata Repositories	OU_MDM2_02	Password	MDM Edge Application WS Credentials	
User Messaging Service	© OU_MDM2_01	Password		
			1	

#### **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.

ORACLE Enterprise Manager 11g Fusion Middleware C	Control		Setup 🔻 Help 🔻 Log Out
📳 Farm 👻 🊟 SOA Infrastructure 👻 🚑 Topology			
▼       Farm_sos_domain         >        Application Deployments         ▼       SoA         ▼       SoA         ▼       SoA         ▼       SoA         ▼       Good Server 1)         ▶       (© CCB2+MON2         (© default)       >         ▶       (© CCD2-MON2         (© OUNC       ●         ●       ErrorHanding (1.0)         ●       ErrorHanding (1.0)         ●       ErrorHanding Humanintervention [1.0]         ●       COUNCONNENSingDebates [1.0]         ●       COUNCONNENsingMaster [1.0]         ●       COUNCONNENsingLong control [1.0]         ●       COUNCONNEnsitionInbound [1.0]         ●       COUNCONNEnsitionInfoction [1.0]         ●       COUNCONNEnsitionInfoction [1.0]         ●       COUNCWXDelveryChannels [1.0]         ●       COUNCWXDetholifications [1.0]	OUNCRouteNotification [1.0]  Composite   Running Instances 0 Total 11 Active Retire S Dashboard Instances Paults and Rejected Messag You can view and manage the list of policies attached to the web attached polices. View  Attach To/Detach From  Policy Name oracle/Utilities_viss_http_token_client_policy_OPT_ON	hut Down Test ♥   Settings ♥   연   es Unit Tests Policies	 ul 26, 2013 8:13:59 AM PDT (2)
e∰ UpdateIntegrationErrorLookupTable [1.0]		۲ [ ۱۱۱	٢

## **Uninstalling the OUNC Flows**

**1** Set the following environment variables:

Variable	Example
Unix/Linux and Windows OS	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware
WL_HOME	XXX/Middleware
PRODUCT_VERSION	2.1.0.2
PRODUCT_HOME	This is the integrated flows product installation home. Example: Unix/Linux: PRODUCT_HOME=/slot/oracle/ OUNC_Flows Windows: PRODUCT_HOME=D:\Oracle\ OUNC_Flows

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

#### **On UNIX/Linux:**

source "\${WL\_HOME}/wlserver\_10.3/server/bin/setWLSEnv.sh"

#### **On Windows:**

cd %WL\_HOME%\wlsserver\_10.3\server\bin\ setWLSEnv.cmd

#### Note:

For a Windows installation, when updating any of the properties listed in the table below, use the correct path separator (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.

**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 un installation

#### **On UNIX/Linux:**

cd \$PRODUCT\_HOME/bin

```
ant -f UnInstallBuild.xml uninstallSOA -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l 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 un installation of Java resources like JMS Servers, JMS Modules, JMS Queues, Datasources.

#### **On UNIX/Linux:**

cd \$PRODUCT\_HOME/bin

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

## **Chapter 6**

## **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\_CustomPortal 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 (v2.1.0.2) Enterprise application and associated MDS Partition.

**On Windows:** 

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

#### On UNIX/Linux:

```
ant -f UnInstallBuild.xml UnInstallPortal -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l 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 Embedded LDAP by running the following command:

Note: This command is valid only for a WebLogic embedded LDAP.

#### **On Windows:**

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

#### **On UNIX/Linux**

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

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

**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 no longer listed:
  - o com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.9.0)
  - o com.oracle.ugbu.ss.residential.lib(11.1.1,11.1.1.9.0)
  - o com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.9.0)
  - o extend.oucss.portal (11.1.1, 11.1.1.\*)
  - o OUCSSPortal (v2.1.0.2) (enterprise application)
- **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.

## **OUCSS Portal is Still Installed**

When the OUCSS Portal is installed and on the same managed server, uninstall OUCSS inbound services by undeploying using EM.

- 1 Login to Oracle Enterprise Manager as WLS Admin.
- 2 Click on OUCSSInboundServices (v2.1.0.2) from Application Deployments.
- 3 From the Application Deployment menu, select Application Deployment > Undeploy.

#### ORACLE Enterprise Manager 11g Fusion Middleware Control

📲 Farm 👻 🚑 Topology				
	OUCSSInboundServices(v2.1     Application Deployment -	.0.1) 🛛	Logged in as <b>weblogic</b>  Host Page Refreshed Apr	
<ul> <li>Farm_portal_domain</li> <li>Application Deployments</li> <li>Internal Applications</li> <li>MobleWebApp (WC_CustomPor</li> <li>oracle.ugbu.ss.mobile.browser(v</li> <li>OUCSSInboundServices(v2.1</li> <li>OUCSSPortal(v2.1.0.1) (WC_Cu</li> <li>WebLogic Domain</li> <li>Metadata Repositories</li> </ul>	Application Deployment Home Control Logs Performance Summary Application Deployment Web Services ADF WebCenter Portal Security MDS Configuration TopLink Sessions System MBean Browser WebLogic Server Administration Console	Configure and manage this ogic Application Deployment, Undeploy Redeploy Fetch Deployment Plan Beans in Use 0 can Accesses (per minute) 0.01 can Accesses Successes (%) 0.00 lean Transaction Commits 0.0.0	Modules      Module Name     oracle.ugbu.ss.billing.offers.ws.model     AccountEnroll.war     oracle.ugbu.ss.billing.offers.ws.model     OUCSS_Inbound_RestService.war     III     Response and Load     400     300     200     100     0	Module Type 2.1 Web Application Web Application
	General Information Work Manager Requests (per minute) 0.00 Pending Requestr. 0	(per minute) ean Transaction Rollbacks 0.00 (per minute) Bean Transaction Timeouts 0.00 (per minute)	05:39 PM 05:42 05:45 April 09 2014	05:48

### **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 as described in the Installing OUCSS Portal section of this document 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 (v2.1.0.2) 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 -l
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 (11.1.1, 11.1.1.9.0)
  - o com.oracle.ugbu.commercial.ss.lib (11.1.1, 11.1.1.9.0)
  - o com.oracle.ugbu.residential.ss.lib(11.1.1, 11.1.1.9.0)
  - o extend.oucss.portal (11.1.1, 11.1.1.9.0)
  - o com.oracle.ugbu.ss.rest.lib (11.1.1, 11.1.1.9.0)
  - o jax-rs(1.1,1.9)
  - o OUCSSInboundServices (v2.1.0.2) (enterprise application)
- **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.

## **Chapter 7**

## **Upgrading OUCSS**

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

## **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.

<ul> <li>CuccssPortal(v2.1.0) (Cuccurrent)</li> <li>Application Deployments</li> <li>Internal Applications</li> <li>OuccssPortal(v2.1.0) (WC_customPortal)</li> <li>OuccssPortal(v2.1.0) (WC_customPortal)</li> <li>OuccssPortal(v2.1.0) (WC_customPortal)</li> <li>Metadata Repositories</li> <li>Metadata Repositories</li> <li>Metadata Repositories</li> <li>WebLogic Server Administration Console</li> <li>Bean Accesses (per minute) 0.00 Bean Access Successes (per minute) 0.00 Bean Access Successes (per minute) 0.00 Bean Transaction Commits (per minute) 0.00</li> </ul>	ORACLE Enterprise Manager 11g Fusion N	Iddleware Control	
	👫 Farm 👻 🕌 Topology		
	<ul> <li>Farm_portal_domain</li> <li>Application Deployments</li> <li>Internal Applications</li> <li>oracle.ugbu.ss.mobile.browser_2.1.0(v2.1.0) (C</li> <li>OUCSSInboundServices (WC_CustomPortal)</li> <li>OUCSSPortal(v2.1.0) (WC_CustomPortal)</li> <li>WebLogic Domain</li> </ul>	Application Deployment         Home         Control         Logs         Performance Summary         Application Deployment         Web Services         WebCenter Portal         ADF         Security         MDS Configuration         TopLink Sessions         System MBean Browser         WebLogic Server Administration Console         General Information	Application Deployment, use the <u>Oracle WebLogic</u> Server Administration Console. EJBs Beans in Use 0 Bean Accesses (per minute) 0.00 Bean Access Successes (%) 0.00 Bean Transaction Commits (per minute) 0.00 Bean Transaction Timeouts (per minute) 0.00 Bean Transaction Commits (%) 0.00
Web Modules			(U)

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

ORACLE Enterprise Manager 11g Fusion	Middleware Control Set	tup + Help + Log Out
📲 Farm 🚽 🦂 Topology		
	OUCSSPortal(v2.1.0)      Logged in as weblogic(Host     Application Depicyment - Page Refreshed Apr 11	0, 2014 5:07:16 PM POT (
♥ Application Deployments           > Internal Applications           oracle-upbuss.mobile.trowser_2.1.0(v2.1.0) (G           ● OUCSSINDoundServices (WC_customPortal)           ● OUCSSINDoundServices (WC_customPortal)           ● WebLopic Domain	MDS Configuration  Target Metadata Repository Repository Repository Type: Database Patteon OUCSSPortal	
Metadata Repositories	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 from being before where this application is running.     For Club Taske Strong and Beystem 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     For Club Taske adocuments from an archive on the machine where this web browser is running.     For Club Taske adocuments 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     For Club Taske adocuments from an archive on the machine where this web browser is running.     For Club Taske adocuments from an archive on the machine where this application is running.     For Club Taske addition adocuments from a directory or archive on the machine where this application is running.	🕐 Export
	Purge Purge the version history of unlabeled documents from the Application's repository partition that are older than the selected time period. The tip version of a document will not be purged even if it is not labeled.     Purge all unlabeled periods versions older than:         ()         ()         ()	Purge

- 3 Export existing Portal Resources (Page Templates, Navigation Models, and Resource Catalogs etc). Refer to OUCSS\_2\_1\_0\_1\_Whitepaper\_CustomizeAndExtendOUCSSPortal whitepaper for steps how to export and import portal resources.
- 4 Take a back up of latest version extend.oucss.portal.war.
- 5 Shutdown the managed servers listed as Target section of OUCSSDS Data Source.
- **6** Download the OUCSS 2.1.0.2 package. Perform Steps 1 7 to setup environment as described in Installing OUCSS Portal section of this document to setup the environment for 2.1.0.2 upgrade.

## **Upgrade Steps**

- <u>Upgrade OUCSS DB Schema</u> to version 2.1.0.2.
- Install OUCSS Portal v2.1.0.2 on a new 11.1.1.8.0 WebCenter Domain.
- Install extend.oucss.portal.war to 2.1.0.2 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 2.1.0.2 domain. If you are configured the 2.1.0.2 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 OUCSS Portal that you currently running. For e.g. if you are currently have OUCSS 2.0.1 version installed, and then set this property to value 2.0.1.
- 2 Run the following command to upgrade OUCSS schema to version 2.1.0.2

#### **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 v2.1.0.2

- 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 v2.1.0.2 by following 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 2.1.0.2 instance. The default implementation version of extend.ocuss.portal shared library in 2.1.0.2 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 Install the extend.oucss.portal shared library to managed server running OUCSS Portal v2.1.0.2.
- **4** Source control extend.oucss.portal.war and the changes.

### **Import MDS Customizations**

Import the MDS customization exported from previous install. To import the MDS customizations

- 1 Login to EM of 2.1.0.2 domain and click on OUCSSPortal v2.1.0.2.
- 2 Select MDS Configuration from Application Deployments menu.

ORACLE Enterprise Manager 11g Fusion Middleware Cont	trol			
📲 Farm 👻 🔔 Topology				
<ul> <li>Farm_portal_domain</li> <li>Application Deployments</li> <li>Internal Applications</li> <li>MobileWebApp (WC_CustomPortal)</li> <li>oracle.ugbu.ss.mobile.browser(v2.1.0.1) (OUCSSMobility)</li> <li>OUCSSInboundServices(v2.1.0.1) (WC_CustomPortal)</li> <li>OUCSSPortal(v2.1.0.1) (WC_CustomPortal)</li> <li>WebLogic Domain</li> <li>Metadata Repositories</li> </ul>	OUCSSPortal(v2.1.0.1)  Application Deployment Control Logs Performance Summary Application Deployment Web Services ADF	+	To configure and manage this WebLogic Applicat Deployment, use the <u>Oracle WebLogic Server</u> Administration Console.	9 😂 🗸 tion
	WebCenter Portal	- + I	EJBs	
	Security	- + I	Beans in Use 0	
	MDS Configuration	2	Bean Accesses (per minute) 0.00	
	TopLink Sessions	13	Bean Access Successes (%) 0.00	
	System MBean Browser	- 1	Bean Transaction Commits (per minute) 0.00	
		_	Bean Transaction Rollbacks (per minute) 0.00	
	WebLogic Server Administration Conso	ole	Bean Transaction Timeouts (per minute) 0.00	
	General Information		Bean Transaction Commits (%) 0.00	

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

Farm      F	• Control	Setup + Help + Log Out
	OUCSSPortal(v2.1.0.1)     Logged in as webliopic;Host     Deployment +     Page Ref	телней Ари 10, 2014 6:07:50 РМ РОТ 🔾
	MDS Configuration.2 Target Metadata Repository md-CustonPetaDS Type Database Parton OutSPetal	
<ul> <li>WetJoge Doman</li> <li>Mezdata Repositories</li> </ul>	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 Beyout metadata documents to an archive on the machine where this web browser is running. Beyout metadata documents to a directory or archive on the machine where this application is running. Exclude base documents	🕐 Export
	Import     Import     More metadata documents from a file system directory or archive to a metadata repository partice. If the target metadata repository is a database repository, the documents will be imported as new to version.     The metadata documents from an archive on the machine where this web browser is nonning.     More metadata documents from a desctory or archive to the machine where this application is numes.	<mark>, ∳jårsot,</mark> L}
	Purge Purge the version hatery of unlabeled documents from the Application's repository partition that are older than the selected time period. The to version of a document will not be purged even if it a not labeled.     Purge all unlabeled part versions older than :	C Purpe
	Advanced Configuration Configuration MBean Browser Runtme Millean Browser	

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

### **Import Portal Resources**

1 Import the Portal resources exported from previous version to activate the custom Page Template, Navigation Model, Resource Catalog etc in the 2.1.0.2 Portal instance. To import

Launch the WLST from <</MW\_Home>>/Oracle\_WC1/common/bin folder.

#### **On Windows:**

%MW\_HOME%/Oracle\_WC1/common/bin/wlst.cmd

#### **On UNIX/Linux:**

\$MW\_HOME/Oracle\_WC1/common/bin/wlst.sh

**2** Connect as Admin Server of 2.1.0.2 domain as WLS Admin.

3 Run one of the following commands for each resourceType to be imported to the new instance.

importWebCenterResource(appName='OUCSSPortal#v2.1.0.2', server='<<PortalManagedServer>>', fileName='<<ArchiveFolder>>/<<ArchiveName>>.ear', resourceType='<<resourceType>>')

For example

• To Import Navigation Model archive run

importWebCenterResource(appName='OUCSSPortal#v2.1.0.2', server='', fileName='<<ArchiveFolder>>/<<NavigationModelArchive>>.ear', resourceType='navigation')

• To Import Page Template archive run

importWebCenterResource(appName='OUCSSPortal#v2.1.0.2', server='WC\_CustomPortal', fileName='<<ArchiveFolder>>/<<PageTemplateArchive>>.ear', resourceType='pageTemplate')

• To Import Resource Catalog archive run

```
importWebCenterResource(appName='OUCSSPortal#v2.1.0.2', server='WC_CustomPortal',
fileName='<<ArchiveFolder>>/<<ResourceCatalogArchive>>.ear',
resourceType='resourceCatalog')
```

**Note:** Refer <u>http://docs.oracle.com/cd/E23943\_01/web.1111/e13813/custom\_webcenter\_admin.htm#WLSTC10670</u> for more information on importWebCenterResource WLST command.

4 On successful import, restart the Portal managed server to activate the changes.

## **Chapter 8**

## **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 Instaling</u> <u>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>

## **Chapter 9**

## 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 4 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 4 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\_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.

Make sure to 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
- 2 Configure MapViewer to refer to the above map data source. You can configure MapViewer with one or more data sources.
- **3** To configure a Data Source, login to *http://<<host>>:<<port>>/mapviwer/mvlogon.jsp* with WebLogic domain admin credentials.
- 4 Click on "Configuration" link on the left menu.
- **5** Scroll to the bottom of the Text-Area on the right and add the data source.
- 6 Prefix '!' to the password to allow MapViewer to encode it when the data source is loaded first.
- 7 MapViewer configuration also allows configuring other parameters for fine-tuning. Use the same screen to change the configuration as it suits the requirements.
- 8 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 Default Theme**

For OUCSS Outages to render color regions on the map, a new table and a theme based on this table are required to 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>
        <label column="AREA" style="T.ALL_STATE_ABBREVS"> 1 </label>
    </rule>
    </rule>
    </styling_rules>
    '/styling_rules>
    '/);
```

**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

```
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>2.1.0.2</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>2.1.0.2</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>
            </kevstore-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/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/CustomPortaIDS
/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/ 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/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/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/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.	false
	If enabled, select CCB connections will be configured using the below details.	
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/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/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>
  </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>
         </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>
```

```
</mdsconfig>
</SOA>
<WorkFlow.Notification>
  <fromemailid>admin@company.com</fromemailid>
  <Notificationmode>yes</Notificationmode>
</WorkFlow.Notification>
<EH>
  <dba.dbusername>system</dba.dbusername>
  <dba.dbuserpassword>password</dba.dbuserpassword>
  <dbusername>schema</dbusername>
  <dbuserpassword>password</dbuserpassword>
  <dbuser.createflag>true</dbuser.createflag>
  <dbhostname>db.company.com</dbhostname>
  <dbportnumber>1521</dbportnumber>
  <dbsid>oucss</dbsid>
</EH>
</config>
```

## 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

<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	
<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
<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	
<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	CSSNMSMultiDS
		name	(Do not change this value.)
	<dsnameslist></dsnameslist>	Adds the list of the	CSSNMSDataSource1
		generic data sources the user wants to associate with the multi data source created.	(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	Values:
		Multi Data Source	Load-Balancing (recommended algorithm) or 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>			
	<hostname></hostname>	Host name of the server where admin server hosting SOA suite is installed.	adminserver.company.com

	<portnumber></portnumber>	Port number the admin server (hosting SOA suite) is listening to.	7043
	<servername></servername>	Admin server name (hosting SOA suite)	AdminServer
	<username></username>	User name used to log in as an Admin server (hosting SOA suite) administrator.	weblogic
	<password></password>	Password used to log in as an Admin server (hosting SOA suite) administrator.	
	<domainname></domainname>	WebLogic domain name hosting SOA suite.	soa_domain
<managedserve< td=""><td>)r&gt;</td><td></td><td></td></managedserve<>	)r>		
	<protocol></protocol>	Managed Server protocol Valid values are http or https	http
	<hostname></hostname>	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
	<portnumber></portnumber>	Port number the managed server (hosting SOA suite) is listening to. Even in the case of Cluster, provide the host name of one of the SOA managed server	8043
	<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

<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></workflow.notification>		
<fromemailid></fromemailid>	Email ID which should be set in the "From" property of Workflow Notification	admintest@company.com

		bean	
	<notificationmode></notificationmode>	Notification Mode	yes
<eh></eh>			
	<dba.dbusername></dba.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.	
	<dba.dbuserpassword></dba.dbuserpassword>	Password used to log in as a database administrator (DBA).	
		This database hosts the schema required for CSS Direct Flows Integration.	
	<dbusername></dbusername>	User name used to log in to OUCSSDIRFL schema for CSS Direct Flows integration.	Schema_user
		This user can be automatically created by the install (set dbuser.createflag to true) or manually outside the install process.	
	<dbuserpassword></dbuserpassword>	Password used to log in to OUCSSDIRFL schema for CSS Direct Flows Integration.	
	<dbuser.createflag></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)	
	<dbhostname></dbhostname>	Database host name used for CSS Direct Flows Integration.	Db.company.com
	<dbportnumber></dbportnumber>	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_vendor_app></db_vendor_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	

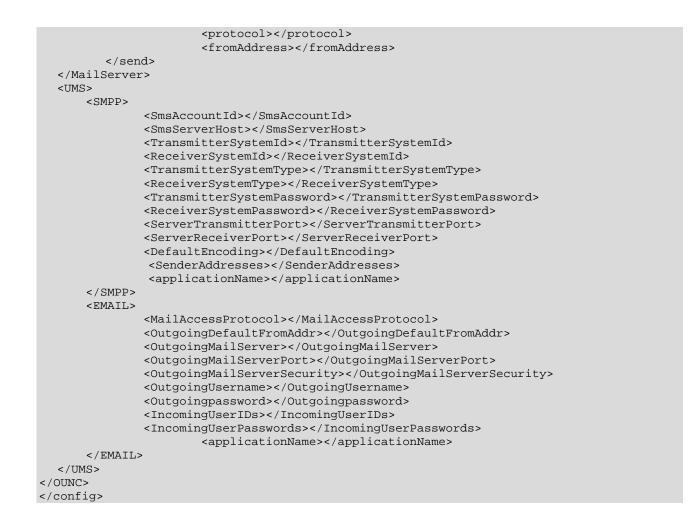
# **Appendix D**

## **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>
         </CCB>
         <MDM>
                <enabled></enabled>
                <protocol></protocol>
                <hostname></hostname>
                <portnumber></portnumber>
                <username></username>
                <password></password>
         </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></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></dbuser.createflag>
                   <dbhostname></dbhostname>
                   <dbportnumber></dbportnumber>
                   <dbsid></dbsid>
          </EH>
  </Core>
  <MailServer>
          <send>
                        <hostname></hostname>
                        <portnumber></portnumber>
```



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
	<appcontext></appcontext>	context root of the Application	spl

<username></username>	User name used to login to the application	SYSUSER
<password></password>	password used to login to the application	
<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.	
<pre>cportnumber&gt;</pre>	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	
<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
<portnumber></portnumber>	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	
<domainname></domainname>	WebLogic domain name hosting the SOA server	
< ManagedServer >		
<hostname></hostname>	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
<portnumber></portnumber>	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

	<servername></servername>	SOA Server name. Even in the case of Cluster, provide the host name of one of the SOA managed server	soa_server1
	<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	
<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
	< mdsconfig>		
	<mdsdbusername></mdsdbusername>	User name used to login to the MDS schema	
	<mdsdbuserpassword></mdsdbuserpassword>	Password used to login to the MDS schema	
	<mdsdbhostname></mdsdbhostname>	Host name of the database containing the MDS schema	db.company.com
	<mdsdbportnumber></mdsdbportnumber>	Port number of the database containing the MDS schema	1521
	<mdsdbsid></mdsdbsid>	Service id of the database for the MDS schema	OUCSS
	<partition-name></partition-name>	Partition name used for the MDS configurations	
	<db></db>		
	<dba.dbusername></dba.dbusername>	DBA admin user name to create schemas for NC	
	<dba.dbuserpassword></dba.dbuserpassword>	DBA password to create schemas for NC	
	<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 NC	
	<dbportnumber></dbportnumber>	schema password for DB created for NC	
	<dbsid></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	

<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

# 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 the Steps 3 to 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 detokenizePortalConnections -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l
createConnection4Portal.log
```

#### For OUCSS Inbound Services Connection Management:

```
ant -f InstallBuild.xml detokenizeInBoundConnections -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l createConnection4IB.log
```

On UNIX/Linux:

For OUCSS Portal application Connection Management:

```
ant -f InstallBuild.xml detokenizePortalConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l
createConnection4Portal.log
```

#### For OUCSS Inbound Services Connection Management:

```
ant -f InstallBuild.xml detokenizeInBoundConnections -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l 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 single connection or connection set.
  - 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 **OWSM Policies** tab. The security policy attached to this IWS service should be configured from this screen.
- **10** Note the **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. 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.
- 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 Installing OUCSS Portal 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
```

### If CSS is Connected through SOA 12c

- 1 Verify that InstallProperties.xml is updated as described elsewhere this Installation Guide.
- 2 Run the InstallBuild.xml ant script with the additional -DisIWS.enabled parameter to replace CCB connections from XAI to IWS.

If no security annotations are enabled on the CCB IWS service, run the following command to use the **oracle/wss\_http\_token\_client\_policy** OWSM policy for authentication:

#### **On Linux/UNIX:**

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

#### **On Windows:**

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