

# **Oracle Utilities Customer Self Service**

Installation Guide

Release 2.1.0 Service Pack 1

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# Chapter 1

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## 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 (11.1.1.8.0) documentation	<a href="http://www.oracle.com/technetwork/middleware/webcenter/portal/documentation/index.html">http://www.oracle.com/technetwork/middleware/webcenter/portal/documentation/index.html</a> <a href="http://docs.oracle.com/cd/E29542_01/webportal.htm#webcenter">http://docs.oracle.com/cd/E29542_01/webportal.htm#webcenter</a>
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 v2.1.0.2	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 v2.4.0.2	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	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	<a href="http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html">http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html</a>
Oracle MapViewer documentation	<a href="http://www.oracle.com/technetwork/middleware/mapviewer/documentation/index.html">http://www.oracle.com/technetwork/middleware/mapviewer/documentation/index.html</a>
Installing Custom Managed Server for OUCSS Portal Whitepaper	Oracle Utilities Customer Self Service section of the <a href="#">Oracle Utilities Documentation</a> area on the Oracle Technology Network (OTN) web site ( <a href="http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html">http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html</a> )

**Note:** This document and the documentation mentioned above is subject to revision and updating. For the most recent version of this and related documentation, as well as information on functionality and known issues for other Oracle products that may be required for installation and proper functionality of this product, check the Oracle Utilities Customer Self Service section of the [Oracle Utilities Documentation](#) 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
CCB	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

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## 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 2.4.0.2 installed on an Oracle database with Service Pack 1.

If integrating Oracle Utilities Meter Data Management:

- Oracle Utilities Meter Data Management release 2.1.0.2 installed on an Oracle database with Service Pack 1.
- 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 installed on an Oracle database.
- 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.

# Pre-Installation Tasks

## Cluster Install

- 1 Choose your enterprise topology and perform installation of WebCenter in a clustered environment per Oracle WebCenter installation guidelines ([http://docs.oracle.com/cd/E21764\\_01/core.1111/e12037/toc.htm](http://docs.oracle.com/cd/E21764_01/core.1111/e12037/toc.htm)).

Ensure that Custom Portal managed servers for clusters are created using the portal template as described in the *Installing a Managed Server for Custom Portals Whitepaper*, available for download in the Oracle Utilities Customer Self Service section of the [Oracle Utilities Documentation](http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html) area on the Oracle Technology Network (OTN) web site (<http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html>).

**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 routes the requests to servers in 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 all managed servers in Custom Portal cluster are up and running.
- 5 Continue with verification by following steps 2 to 7 in the next topic, "Pre-Installation Tasks (Standalone)".

## 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 [Oracle Utilities Documentation](http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html) area on the Oracle Technology Network (OTN) web site (<http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html>).

**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 Verify that edge applications are properly installed and configured.

**Note:** The installation script performs the detokenization of the Oracle Utilities Customer Care and Billing application URL according to your environment.

- 3 Configure InstallProperties.xml for 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.
  - 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, 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:

This page summarizes each server that has been configured in the current WebLogic Server domain.

Customize this table

Servers (Filtered - More Columns Exist)

New Clone Delete Showing 1 to 2 of 2 Previous | Next

Name	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)			RUNNING	OK	7250
WC_CustomPortal			RUNNING	OK	9000

New Clone Delete Showing 1 to 2 of 2 Previous | Next

How do I...  
 • Create Managed Servers  
 • Clone Servers  
 • Delete Managed Servers  
 • Delete the Administration Server  
 • Start and stop servers

System Status  
 Health of Running Servers  
 Failed (0)  
 Critical (0)  
 Overloaded (0)  
 Warning (0)  
 OK (2)

- 6 Optional: [Required only if Outage functionality is enabled] Install and Configure MapViewer for Outage Map. For MapViewer installation procedures see the appendix “Installing and Configuring Oracle MapViewer” later in this document.

## 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).

# Installing OUCSS Portal

## Install Steps

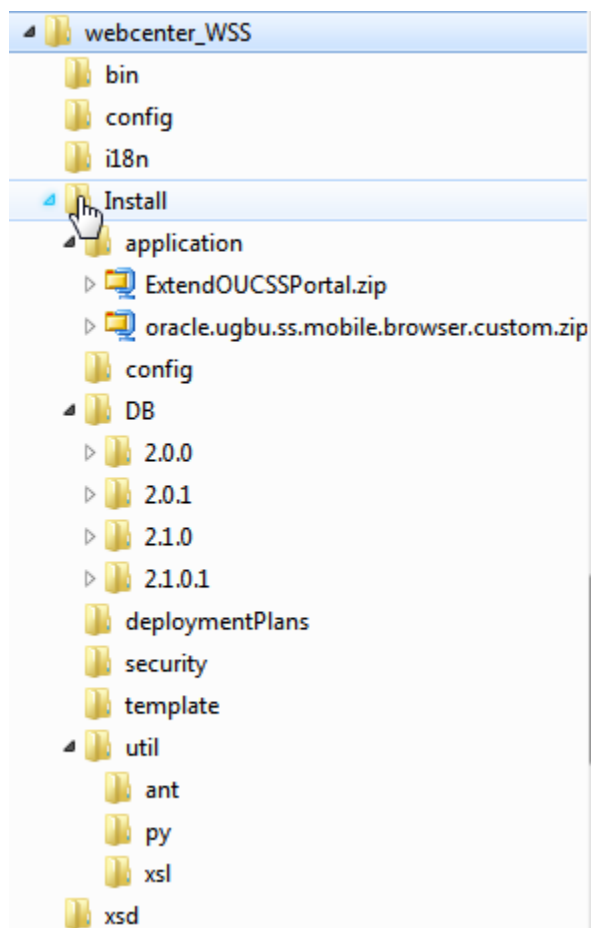
This procedure describes the default installation method for OUCSS that extends WebCenter Portal Framework with OUCSS taskflows.

**Note:** A chapter for installing and uninstalling OUCSS Portlets Producer Application is available for users implementing a non-portal solution or for users who may want to consume OUCSS taskflows as Portlets into an existing portal application. For details on the alternative method, see [Appendix A](#).

### 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\OUCSS2101
echo %PRODUCT_HOME%
```

Echo should return PRODUCT\_HOME as D:\Oracle\Middleware\OUCSS2101

**Linux example:**

```
export MW_HOME=/u01/Oracle/Middleware
export PRODUCT_HOME=/u01/Oracle/Middleware/OUCSS2101
echo $PRODUCT_HOME
```

Echo should return PRODUCT\_HOME as /u01/Oracle/Middleware/OUCSS2101

- 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.

**Windows example:**

```
call %MW_HOME%\wlserver_10.3\server\bin\setWLSEnv.cmd
```

**Linux example** for bash shell:

```
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 *Appendix D* 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 OUCSS DB Schema and Data Source.

**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
```

After running the command check *DBInstallPortal.log* for any build errors, and fix any errors listed in the log before proceeding.

- 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; it is not valid on other LDAPs.

**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
```

After running the command check *importUsersAndGroups.log* for any build errors, and fix any errors listed in the log before proceeding.

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

**A** Select *portal\_domain > Security Realms > myrealm > Users and Groups*.

**B** Verify that the users *WSSAdmin* and *WSSCSR* were created. Change the password of *WSSAdmin* and *WSSCSR* users. Review the [post-install section](#) to reset password.

**C** 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.oucscs.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
```

After running the command check *InstallPortal.log* for any build errors, and fix any errors listed in the log before proceeding.

- 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\_TRAIN  
 SS\_TRAIN\_L  
 SS\_TRAIN\_PORTLET  
 SS\_USER  
 SS\_USER\_LOB\_ACCESS\_ROLE  
 Commercial Tables  
 SS\_SET  
 SS\_SET\_USERS  
 SS\_SET\_ACCESS

## 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:

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the Domain Structure tree is expanded to 'Data Sources' under the 'portal\_domain'. The main content area displays the 'Summary of JDBC Data Sources' page. A table lists the data sources, with 'OUCSSDS' highlighted. The table has columns for Name, Type, JNDI Name, and Targets.

Name	Type	JNDI Name	Targets
Activities-CustomPortalDS	Generic	jdbc/activities/CustomPortalDS	WC_CustomPortal
mds-CustomPortalDS	Generic	jdbc/mds/CustomPortalDS	AdminServer, WC_CustomPortal
mds-owsm	Generic	jdbc/mds/owsm	AdminServer, WC_CustomPortal
<b>OUCSSDS</b>	Generic	jdbc/OUCSSDS	WC_CustomPortal
WebCenter-CustomPortalDS	Generic	jdbc/webcenter/CustomPortalDS	WC_CustomPortal

## Verify Deployments

To verify OUCSS shared library deployment:

- 1 Login in to the Oracle WebLogic Server console as WLS Admin.
- 2 Navigate to `<<portal_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 and OUCSS Libraries with the Deployment Order 512.

The following deployments should be listed:

com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.8.0) [as “Library” deployment]  
 com.oracle.ugbu.ss.commercial.lib (11.1.1, 11.1.1.8.0) [as “Library” deployment]

extend.oucss.portal (11.1.1, 11.1.1.8.0) [as “Library” deployment]

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: portal\_domain

Home > Summary of Deployments

**Summary of Deployments**

Control Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or 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**

Install Update Delete Start Stop Showing 1 to 65 of 65 Previous Next

Name	State	Health	Type	Deployment Order
OUCSSPortal (v2.1.0.1)	Active	OK	Enterprise Application	516
com.oracle.ugbu.ss.lib(11.1.1,11.1.1.8.0)	Active		Library	512
com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.8.0)	Active		Library	512
extend.oucss.portal(11.1.1,11.1.1.8.0)	Active		Library	512
FMW Welcome Page Application (11.1.0.0.0)	Active	OK	Enterprise Application	5

#### 4 Verify that the OUCSSPortal (v2.1.0.1) is deployed as Enterprise Application and is Active.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help Welcome, weblogic Connected to: portal\_domain

Home > Summary of Deployments

**Summary of Deployments**

Control Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or 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**

Install Update Delete Start Stop Showing 1 to 65 of 65 Previous Next

Name	State	Health	Type	Deployment Order
OUCSSPortal (v2.1.0.1)	Active	OK	Enterprise Application	516
com.oracle.ugbu.ss.lib(11.1.1,11.1.1.8.0)	Active		Library	512
com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.8.0)	Active		Library	512
extend.oucss.portal(11.1.1,11.1.1.8.0)	Active		Library	512
FMW Welcome Page Application (11.1.0.0.0)	Active	OK	Enterprise Application	5

## Verify the OUCSS Mail Session

Goto Services > MailSessions > Under Summary of Mail Sessions, Verify OUCSS is created as shown below. The properties column will reflect the values configured in InstallProperties.xml.

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

## Verify Connections

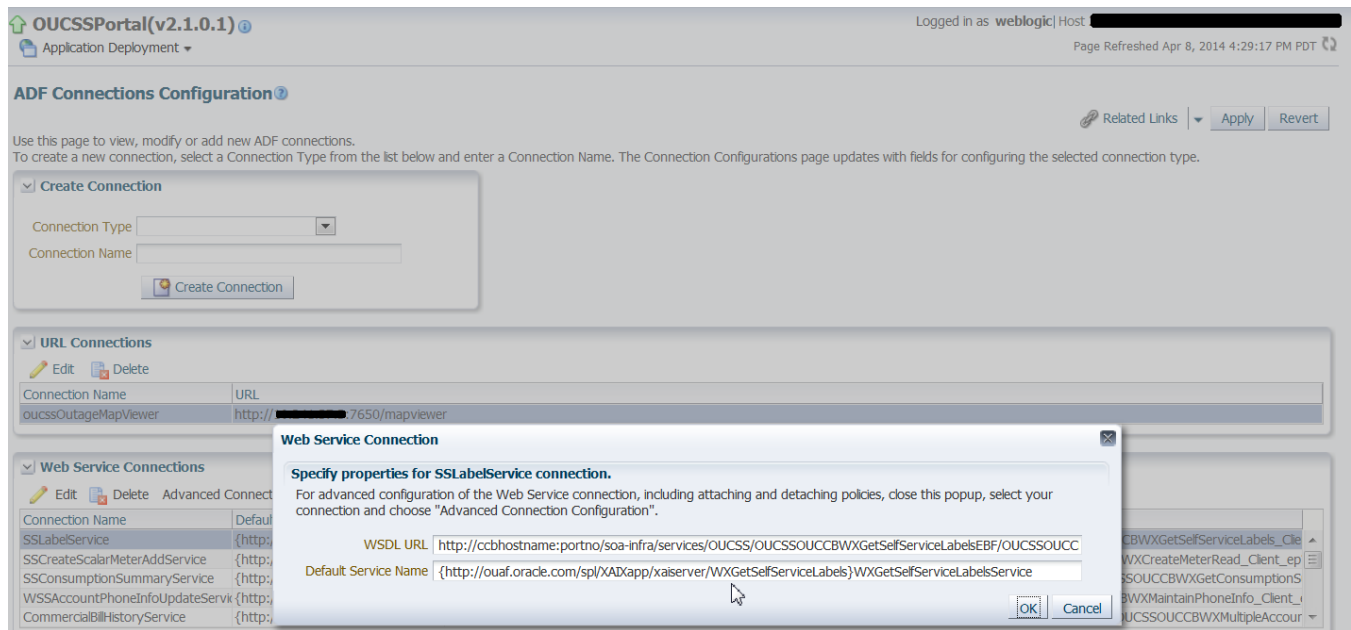
To verify that the CCB edge application *wddl* is correctly tokenized:

- 1 Log in into the Oracle Enterprise Manager console at `http://<WLSAdminHost>:<WLSAdminServerPort>/em` as WLS Admin.
- 2 Select **OUCSSPortal(v2.1.0.1)** from Application Deployments, then right-click and choose **ADF > Configure ADF Connections** from the context menu as shown in the following image:

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control console. The left pane displays the 'Farm\_portal\_domain' tree with 'Application Deployments' expanded, showing 'OUCSSPortal(v2.1.0.1) (WC\_...' selected. A context menu is open over this application, with 'ADF' selected, and a sub-menu is open showing 'Configure ADF Connections' highlighted. The main pane shows the 'Deployments' view for 'Farm\_portal\_domain' with a green '100%' status indicator and a table listing applications and their targets.

Deployments	Status	Target
WC_CustomPort	Up	
OUCSSMobility	Up	
WC_CustomPort	Up	

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

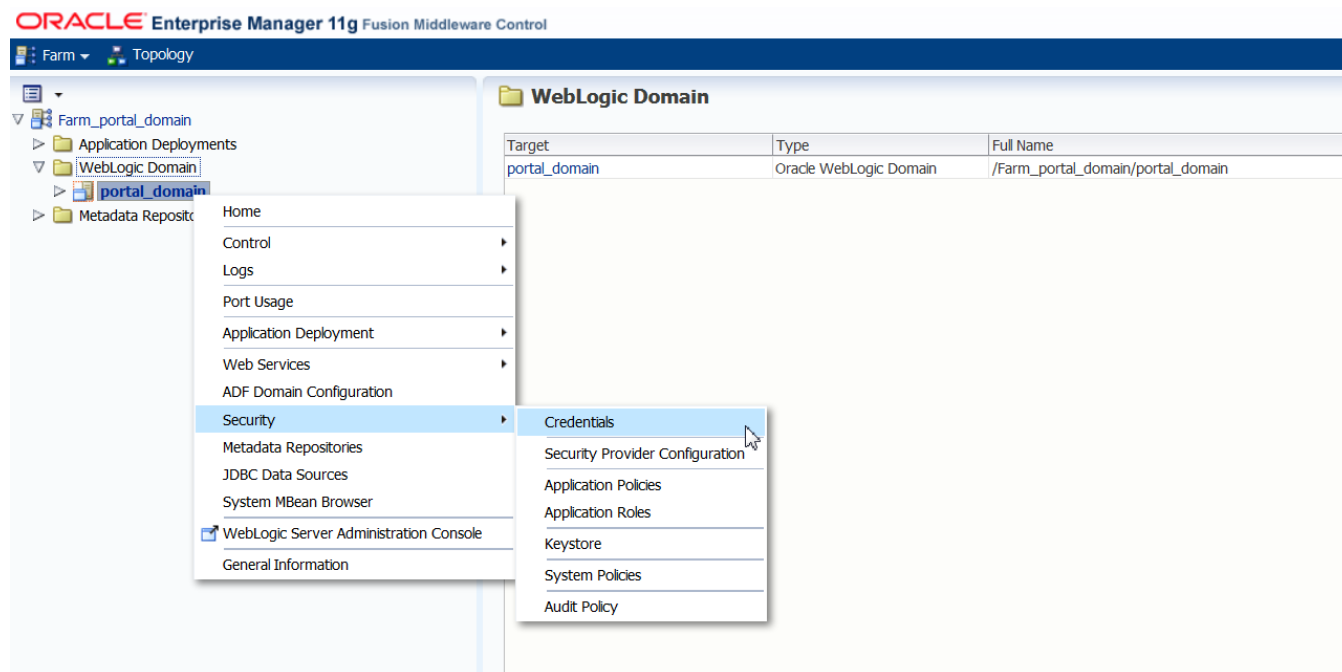


- 4 Repeat Step 3 for all remaining connections including **oucssOutageMapView** (if present) to confirm that connections are de-tokenized with connections configured in InstallProperties.xml.

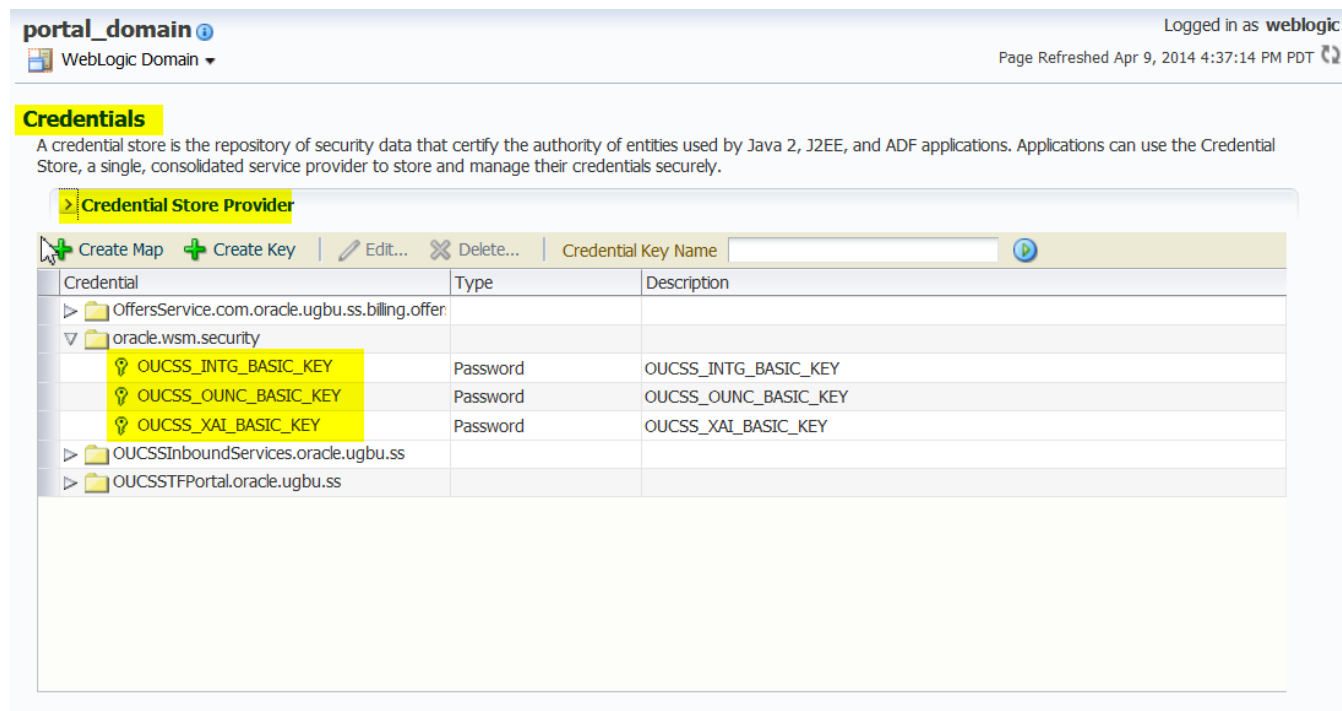
## Verify the OUCSS Security Credential

To verify that the Security Credential **OUCCSS\_XAI\_BASIC\_KEY**, **OUCCSS\_INTG\_BASIC\_KEY**, and **OUCCSS\_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 **<portal\_domain\_name>**.
- 3 Click **<portal\_domain\_name>**, then choose **Security > Credentials**, as shown in the following image:



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



# 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.

To reset the password

- 1 Log in 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**

Home Log Out Preferences Record Help

Home > Summary of Security Realms > myrealm > Users and Groups

**Settings for myrealm**

Configuration **Users and Groups** Roles and Policies Credential Mappings Providers Migration

**Users** Groups

This page displays information about each user that has been configured in this security realm.

[Customize this table](#)

Name	Description
OracleSystemUser	Oracle application software system user.
weblogic	This user is the default administrator.
<b>WSSAdmin</b>	Admin of WSS
<b>WSSCSR</b>	CSR for WSS

- 4 Update the passwords from the the Passwords tab.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: portal\_domain

Home

**Settings for WSSAdmin**

General **Passwords** Attributes Groups

Save

Use this page to change the password for the selected user.

\* Indicates required fields

**\* New Password:**  The new password of this user. [More Info...](#)

**\* Confirm New Password:**

Save

# Update the System Configuration Properties

To modify the values:

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

Configuration Options

Configuration Option	Type	Value	Values Lookup	Selected Value
set.account.page.size	Freeform	10		
csr.account.access	Freeform	ACCOUNT_HOLDER		
csr.search.results.fetchsize	Freeform	300		
default.enroll.role	Freeform	ACCOUNT_HOLDER		
oucss.reset.password.pattern	Freeform	0123456789abcdefghijklmnopqrstuvwxyz##_ABCDEFGHIJKLMNOPQRSTUVWXYZ		
outage.map.base.startingX	Freeform	-81.70		
outage.map.base.startingY	Freeform	40.69		
outage.map.base.zoom	Freeform	4		
attachment.list.max.row	Freeform	5		
forms.list.page.size	Freeform	10		
oucss.debug.enable	Freeform	true		
def.day.mode.range.in.month	Freeform	3		
def.hour.mode.range.in.days	Freeform	7		
def.month.mode.range.in.year	Freeform	1		
max.day.mode.range.in.years	Freeform	1		
max.hour.mode.range.in.days	Freeform	30		
max.month.mode.range.in.years	Freeform	4		
scalar.usage.graph.color	Freeform	#660033		
notif.validate.regex.phone	Freeform	^(?:\+?1[- ])?(?:\d{3})?[- ]?(?:\d{3})[- ]?(?:\d{4})\$		

- C** 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.	2.1.0.1
installation.owner.flag	This is the current installation owner flag. When the product will be shipped this property should be CM	CM
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>/aces/oracle/ugbu/ss/portal/pages/base/AccountList.jspx?regKey=
webcenter.login.url	This property will be used in email messages to send the user the login URL.	http://<PortalHost>:<PortalPort>/<PortalContextRoot>
outage.map.color.theme.buckets	Match the number to number of colors configured in outage.map.color.theme.colors property	4
outage.table.page.size	Number of records that can be displayed at a time on the Outage Table screen	10
outage.map.base.map	This property is used to setup BASE MAP configured in the MapViewer. This property will be used to display the Outage Summary Map.	Value configured in InstallProperties.xml
outage.map.color.theme	This property is used to color code Outages in Outage Summary.	Value configured in InstallProperties.xml
outage.map.color.theme.loc	This property is the Area Column from the Color Theme configured above.	Value configured in InstallProperties.xml
outage.map.srid	This property is SRID of the Coordinate system used by Base Map and Theme configured above.	Value configured in InstallProperties.xml /8307
outage.map.color.theme.colors	This property is configured to set the number of buckets to aggregate the Outages as well as the respective color of each bucket.	#00FF00;#EEEE00;#FF7F00; #FF0000 (Green, Yellow, Orange and Red)
outage.area.nms.config	This property represents the Area configured to aggregate Outages in NMS. This will affect the color theme and/or theme location column configured above.	ZIP (other valid values are CITY and COUNTY).
rollback.on.failed.email	This property if set to 'Y' will roll back Enroll or Invite to an Account if the sending the email fails. Set it to 'N' if mail session is not configured or you want to commit Enroll and Invite even if sending email fails.	Y

account.list.max.rows	This property specifies the number of associated accounts that will be displayed without enabling search functionality. Once the number of accounts exceeds this limit, search will be enabled.	10
account.list.page.size	This property controls the page size or the number of accounts per page presented in the Account List. If the number of associated accounts exceeds the value of this parameter, paging will be enabled.	10
max.rows.premise.search	Set this property to the max number of rows that can result in a Premise search. The system will show error if the premise search in Start Service and New Customer service exceeds the value set here.	10
default.customerclass.parm	Property to set default Customer Class configured in CCB for Start/Stop/Transfer Services.	R
default.personbusiness.parm	This property sets the default Person Business configured in CCB for Start/Stop and Transfer service.	P
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.	0123456789abcdefghijklmnopqrstuvwxyz\$#_ABCDEF GHIJKLMNOPQRSTUVWXYZ
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. Default value is 3 months.	3
def.hour.mode.range.in.days	Property used in Usage Detail to set the default range for Hour view mode. Default value is 7 months.	
def.month.mode.range.in.year	Property used in Usage Detail to set the default range for Month view mode. Default value is 1 year.	1
max.day.mode.range.in.years	Property used in Usage Detail to set the maximum range for Day view mode. Default value is 1 year	1
max.hour.mode.range.in.days	Property used in Usage Detail to set the maximum range for Hour view mode. Default value is 30 days.	30
max.month.mode.range.in.years	Property used in Usage Detail to set the maximum range for Month view mode. Default value is 4 years.	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 Validation 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
<b>Commercial Properties</b>		
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
<b>Notification Properties</b>		
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.	<code>^(?:\+?1[- ])?(?:\d{3})?[- ]?(\d{3})[- ]?(\d{4})\$</code>

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

Your Company
Tag Line for Your Company

Welcome WSSAdmin | Administration | Logout

Home
Account(s)
Details
Notifications
Outages
New Customer
User Profile
Forms Management
Old (Supported) Portlets
Admin

Actions

Create
Delete
Show Query By Example
Flush Cache
oucss.reset.password.pattern
outage.map.base.startingX
outage.map.base.startingY
outage.map.base.zoom
attachment.list.max.row
forms.list.page.size
oucss.debug.enable
def.day.mode.range.in.month
def.hour.mode.range.in.days
def.month.mode.range.in.year
max.day.mode.range.in.years
max.hour.mode.range.in.days
max.month.mode.range.in.years
scalar.usage.graph.color
notif.validate.regex.phone

Type
Value
Values Lookup
Selected Value

Freeform
10
Freeform
ACCOUNT\_HOLDER
Freeform
300
Freeform
ACCOUNT\_HOLDER
Freeform
0123456789abcdefghijklmnopqrstuvwxyz##\_ABCDEFGHIJKLMNPOQF
Freeform
-81.70
Freeform
40.69
Freeform
4
Freeform
5
Freeform
10
Freeform
true
Freeform
3
Freeform
7
Freeform
1
Freeform
1
Freeform
30
Freeform
4
Freeform
#660033
Freeform
^(?:\+?1[- ])?(?:\d{3})?[- ]?(\d{3})[- ]?(\d{4})\$

## 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.

- A** Log in into the OUCSS Portal application as WSSAdmin.
- B** Select Labels from Admin Menu

The screenshot shows the WSSAdmin portal interface. At the top, it says "Your Company" with a tagline "Tag Line for Your Company". The navigation bar includes links: Home, Account(s), Details, Notifications, Outages, New Customer, User Profile, Forms Management, Old (Supported) Portlets, and Admin. The Admin menu is open, showing options: Customer Search, Configuration Options, Resources, Access, Security, Edge Application, Line Of Business, Portlets, Language, **Labels** (highlighted with a mouse cursor), Lookups, Messages, Train, and Offers. Below the menu, there is a table with columns "Label Code" and "Description".

Label Code	Description
ACCEPT_BTN_LBL	Accept
ACCESSROLE_MAINTENANCE_LBL	Access Role Maintenance
ACCESS_PERMISSIONS	Type of Access
ACCESS_ROLE_CD_LBL	Access Role Code
ACCESS_ROLE_LBL	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

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- C** Click **Actions > Reload Labels** as shown in the following image:

The screenshot shows the WSSAdmin portal interface, similar to the previous one. The "Actions" menu is open, showing options: Create, Delete, Show Query By Example, and **Reload Labels** (highlighted with a mouse cursor). The table below the menu is the same as in the previous screenshot.

Label Code	Description
ACCEPT_BTN_LBL	Accept
ACCESSROLE_MAINTENANCE_LBL	Access Role Maintenance
ACCESS_PERMISSIONS	Type of Access
ACCESS_ROLE_CD_LBL	Access Role Code
ACCESS_ROLE_LBL	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

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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.

- D** Select **Lookup** from **Admin** menu.

Welcome WSSAdmin | Administration | Logout

Your Company  
Tag Line for Your Company

Home Account(s) Details Notifications Outages New Customer User Profile Forms Management Old (Supported) Portlets Admin

Actions

Lookup Code	Description	Active Lookup Value Count	Lookup Value List
ACCOUNT_CONTEXT_PROPERTY	List of property values passed in the Context Info webservice	1	PRE_PAID;
ACTION_FLG	Action	3	ADD; READ; UPDATE;
ALLOWED_FILE_TYPES_FLG	Allowed file types for attachment	8	BMP; DOC; GIF; JPEG; JPG; PDF; PNG;
BILL_ROUTE_TYPES	en::BILL_ROUTE_TYPES	6	EMAIL; FAX; POSTAL; TE-EMAIL; ZZPOS
BOOLEAN_TYPE_FLG	Boolean	2	false; true;
CARD_TYPES	en::CARD_TYPES	4	C1AM; C1DV; C1MC; C1VS;
CONFIG_VALUE_TYPE_FLG	Configuration Type	2	FREEFORM; LOOKUP;
DATA_SRC_FLG	Data Source	2	C1; SS;

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**E** Click **Actions > Reload Lookups**.

Welcome WSSAdmin | Administration | Logout

Your Company  
Tag Line for Your Company

Home Account(s) Details Notifications Outages New Customer User Profile Forms Management Old (Supported) Portlets Admin

Actions

- Create
- Delete
- Show Query By Example
- Reload Lookups
- Flush Cache

Lookup Code	Description	Active Lookup Value Count	Lookup Value List
ACCOUNT_CONTEXT_PROPERTY	List of property values passed in the Context Info webservice	1	PRE_PAID;
ACTION_FLG	Action	3	ADD; READ; UPDATE;
ALLOWED_FILE_TYPES_FLG	Allowed file types for attachment	8	BMP; DOC; GIF; JPEG; JPG; PDF; PNG; TXT;
BILL_ROUTE_TYPES	en::BILL_ROUTE_TYPES	6	EMAIL; FAX; POSTAL; TE-EMAIL; ZZPOST; ZZPOSXML;
BOOLEAN_TYPE_FLG	Boolean	2	false; true;
CARD_TYPES	en::CARD_TYPES	4	C1AM; C1DV; C1MC; C1VS;
CONFIG_VALUE_TYPE_FLG	Configuration Type	2	FREEFORM; LOOKUP;
DATA_SRC_FLG	Data Source	2	C1; SS;

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**F** 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.oucspPortal -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l RestartPortalServer.log
```

#### On UNIX/Linux:

```
ant -f InstallBuild.xml RestartManagedServers -
DapplicationPropertyNode=oucssApplication.oucspPortal -
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'.

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

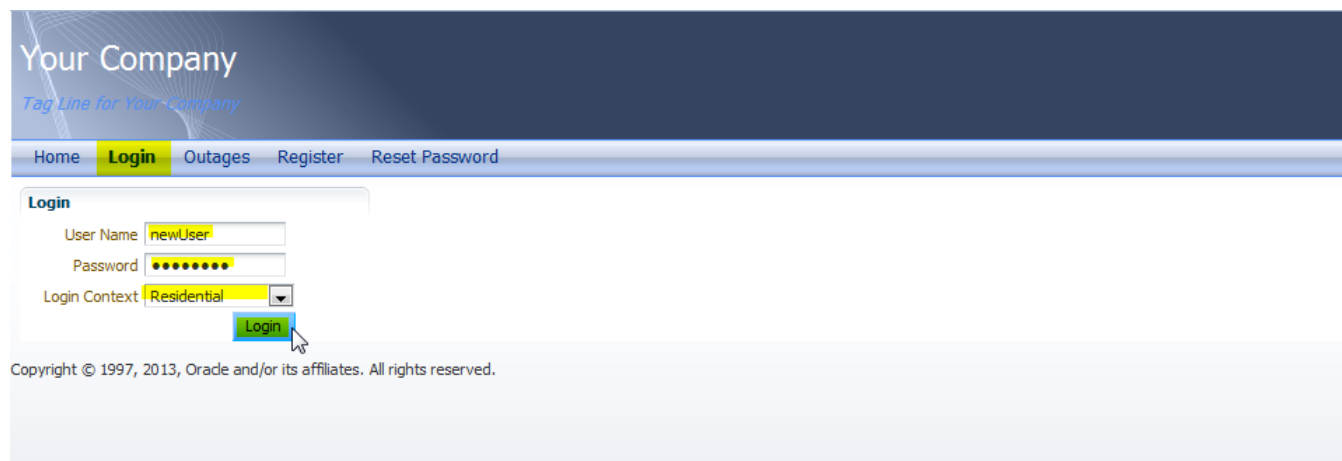
Copyright © 1997, 2013, Oracle and/or its affiliates. All rights reserved.

- 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'.

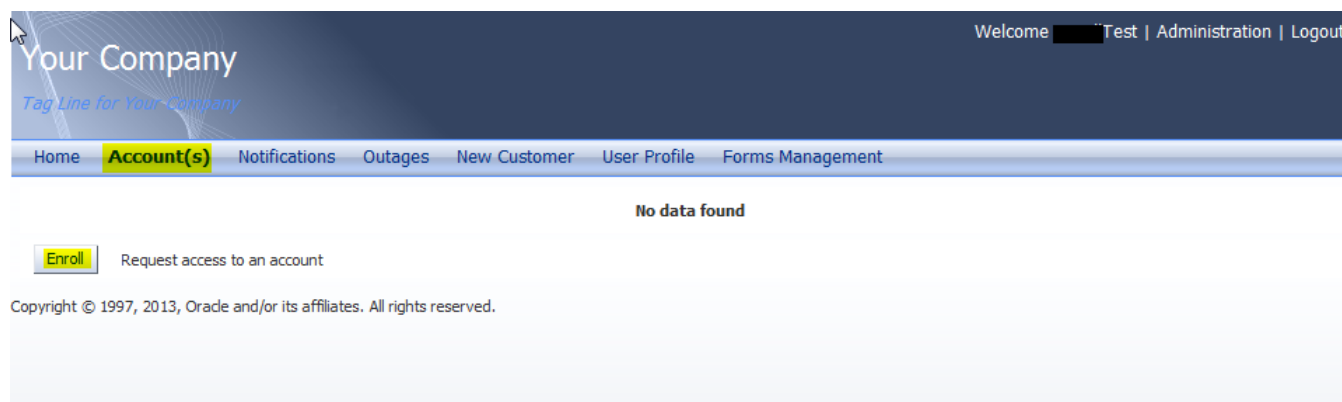
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- 5 **Login** into OUCSS Portal by going to Login page. Enter the newly-registered user name and password and Select a Login Context (e.g., Residential), then click the **Login** button.

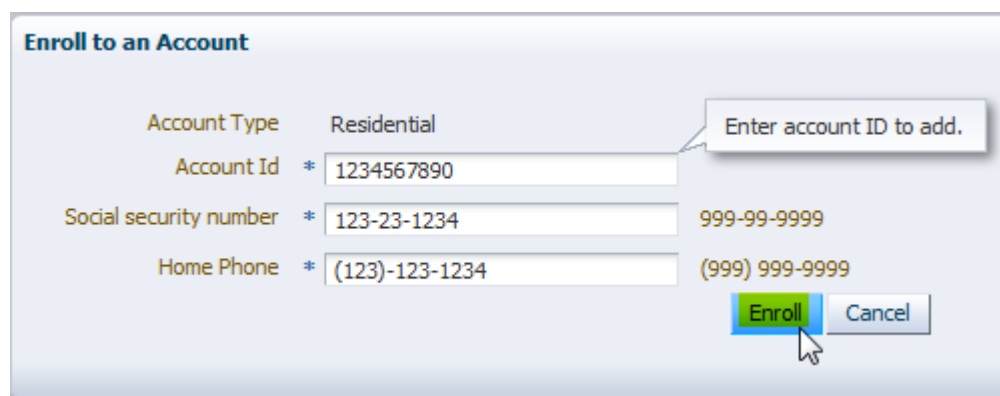


- 6 From Accounts page, click **Enroll** to open the **Enroll to an Account** details screen.

**Note:** If enrollment has not yet been performed, you will receive a “No data to Display” message as shown in the following image. To perform initial enrollment, proceed with the next step.



- 7 Enter enrollment details. The verification fields will differ depending on configuration of your CCB environment. For example, enter **Account Id** and other **verification** details, and then click **Enroll**.



- 8 After the account has been verified and added, click **Details** and verify establishment of the account by checking that all Dashboard, Information, Financial History, Bill, Compare Plans, and Usage and Payment Arrangement are working properly.



# Verify Admin/CSR Functionality

## 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.

The screenshot displays the WSSAdmin portal interface. At the top, a dark blue header contains the text "Your Company" and "Tag Line for Your Company" on the left, and "Welcome WSSAdmin | Administration | Logout" on the right. Below the header is a navigation bar with links: Home, Account(s), Details, Notifications, Outages, New Customer, User Profile, Forms Management, Old (Supported) Portlets, and Admin. The Admin link is highlighted. Below the navigation bar, the main content area is divided into three search sections: Customer Search, Account Search, and Name and Address Search. Each section contains input fields for various attributes (User Id, First Name, Last Name, Email Address, Account Id, Name, Address, City, Postal) and Search/Reset buttons. To the right of the search sections is a vertical menu with the following items: Customer Search, Configuration Options, Resources, Access, Security, Edge Application, Line Of Business, Portlets, Language, Labels, Lookups, Messages, Train, and Offers. A mouse cursor is pointing at the Offers item. At the bottom of the page, a footer contains the text "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.

Your Company

Tag Line for Your Company

Welcome WSSCSR | Administration | Logout

Home

Account(s)

Details

Notifications

Outages

New Customer

User Profile

Forms Management

Old (Supported) Portlets

Admin

Customer Search

User Id

Search

Reset

First Name

Last Name

Email Address

Account Search

Account Id

Search

Reset

Name and Address Search

Name

Search

Reset

Address

City

Postal

Search Results

Customer Search



# 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 [Install Steps](#) to create OUCSS DB Schema and import OUCSS Users.
- 3 Verify that Admin and Managed Server configured for OUCSSInBound 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
```

After running the command check *InstallInBoundService.log* for any build errors, and fix any errors listed in the log before proceeding.

- 5 The Inbound Service applications 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	<code>http://&lt;InBoundServiceHost&gt;:&lt;InBoundServicePort&gt;/&lt;AccountEnrollContextRoot&gt;/AccountEnrollService?WSDL</code>
Offer Service WSDL	<code>http://&lt;InBoundServiceHost&gt;:&lt;InBoundServicePort&gt;/&lt;OffersContextRoot&gt;/OffersService?WSDL</code>
Rest Services	<code>http://&lt;InBoundServiceHost&gt;:&lt;InBoundServicePort&gt;/&lt;RestServiceContextRoot&gt;/</code>

# 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 [Verify the OUCSS Schema Tables](#) of OUCSS Portal Install.

## Verify the OUCSS Data Source

Verify the OUCSS Data Source as described in Section [Verify the OUCSS Data Source](#) of OUCSS Portal Install.

## 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:

com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.8.0)

com.oracle.ugbu.ss.commercial.lib (11.1.1, 11.1.1.8.0)

extend.oucss.portal (11.1.1, 11.1.1.8.0)

com.oracle.ugbu.ss.rest.lib(11.1.1, 11.1.1.8.0)

jax-rs (1.1, 1.9)

**ORACLE WebLogic Server® Administration Console**

Home > Summary of Deployments

**Summary of Deployments**

Control Monitoring

This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or 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**

Install Update Delete Start Stop

Showing 1 to 65 of 65 Previous Next

Name	State	Health	Type	Deployment Order
OUSSPortal (v2.1.0.1)	Active	OK	Enterprise Application	516
OUSSInboundServices (v2.1.0.1)	Active	OK	Enterprise Application	516
com.oracle.ugbu.ss.lib(11.1.1,11.1.1.8.0)	Active		Library	512
com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.8.0)	Active		Library	512
extend.oucss.portal(11.1.1,11.1.1.8.0)	Active		Library	512
jax-rs(1.1,1.9)	Active		Library	500
com.oracle.ugbu.ss.rest.lib(11.1.1,11.1.1.8.0)	Active		Library	500

- 4 Verify that the OUCSSInboundServices (v2.1.0.1) is deployed as Enterprise Application and is Active.

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the Domain Structure tree is visible, with 'portal\_domain' selected. The main area displays the 'Summary of Deployments' page. The 'Control' tab is active, showing a table of deployments. The table has columns for Name, State, Health, Type, and Deployment Order. The 'OUCSSInboundServices (v2.1.0.1)' is highlighted in yellow, showing a State of 'Active' and Health of 'OK'.

Name	State	Health	Type	Deployment Order
OUCSSPortal (v2.1.0.1)	Active	OK	Enterprise Application	516
<b>OUCSSInboundServices (v2.1.0.1)</b>	<b>Active</b>	<b>OK</b>	Enterprise Application	516
com.oracle.ugbu.ss.lib(11.1.1,11.1.1.8.0)	Active		Library	512
com.oracle.ugbu.ss.commercial.lib(11.1.1,11.1.1.8.0)	Active		Library	512
extend.ouc.ss.portal(11.1.1,11.1.1.8.0)	Active		Library	512
jax-rs(1.1.1.9)	Active		Library	500
com.oracle.ugbu.ss.rest.lib(11.1.1,11.1.1.8.0)	Active		Library	500

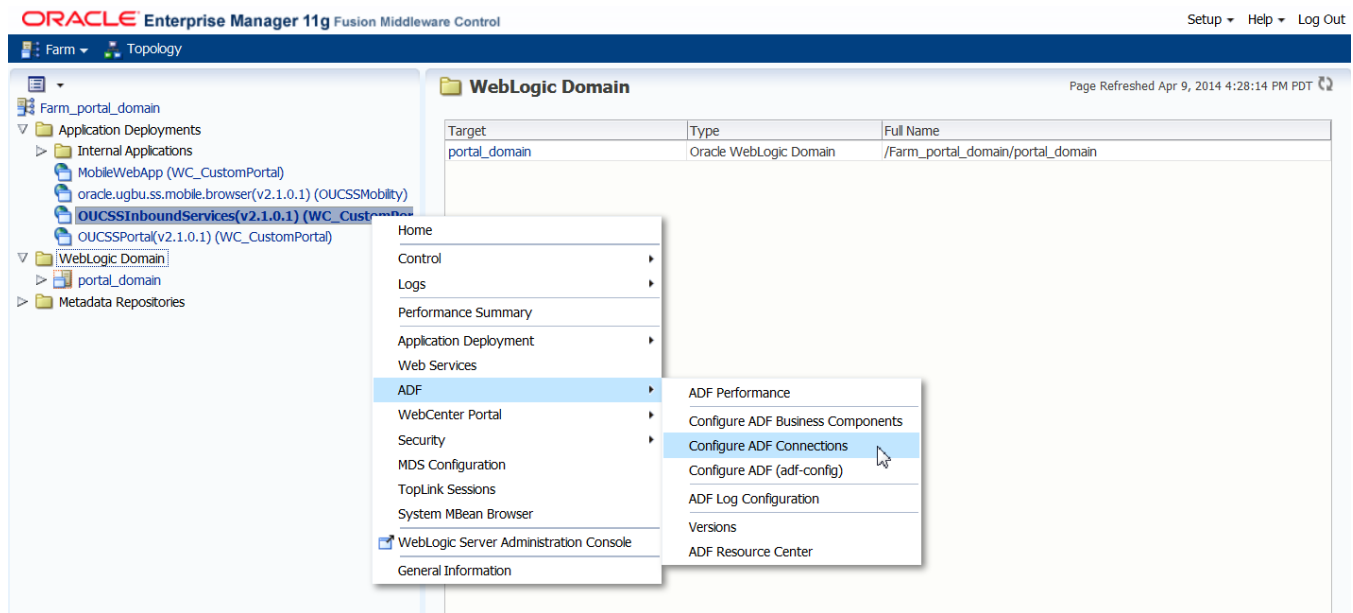
## Verify the OUCSS Mail Session

Verify the OUCSS Mail Session as described in Section [Verify the OUCSS Mail Session](#) of OUCSS Portal Install.

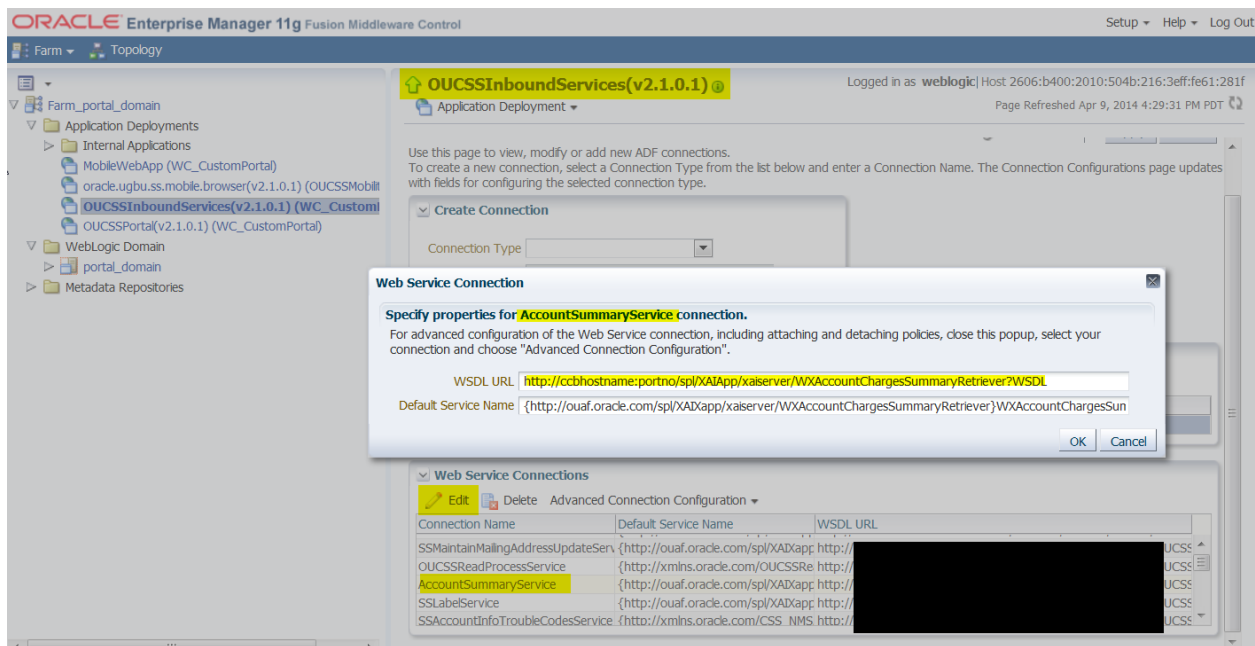
## Verify Connections

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(v2.1.0.1)** from Application Deployments, then right-click and choose **ADF > Configure ADF Connections** from the context menu as shown in the following image:



- 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.



- Repeat Step 3 for all remaining connections including **oucscsOutageMapviewer** (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:

- Perform Steps 1-3 described in [OUCSS Portal Section](#) to go to Credentials screen in EM.

**2 Under Credentials select and expand oracle.wsm.security and Verify the following CSF-Keys exists**

- keystore-csf-key
- sign-csf-key
- enc-csf-key
- **OUCSS\_XAI\_BASIC\_KEY**
- **OUCSS\_INTG\_BASIC\_KEY**
- **OUCSS\_OUNC\_BASIC\_KEY**

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control interface. The left sidebar displays a tree view with the following structure:

- Farm\_portal\_domain
  - Application Deployments
  - WebLogic Domain
    - portal\_domain (selected)
    - Metadata Repositories

The main content area is titled "portal\_domain" and "WebLogic Domain". It includes a "Credentials" section with a description: "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."

Below the description is a "Credential Store Provider" section with a table of credentials:

Credential	Type	Description
OffersService.com.oracle.ugbu.ss.billing.offers		
oracle.wsm.security		
sign-csf-key	Password	
enc-csf-key	Password	
OUCSS_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		
OUCSSSTFPortal.oracle.ugbu.ss		

# Post-Installation Steps

## Create Security Key Store

Account Enroll and Rest Services are secured using OWSM Policy. In order for these services to work, key store is required to be setup.

- 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 <http://docs.oracle.com/javase/6/docs/technotes/tools/windows/keytool.html> 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

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## 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:

- SOA11g / Oracle Enterprise Manager 11.1.1.8.0 on WebLogic Server 10.3.6.
- Oracle Utilities Meter Data Management release 2.1.0.2 installed on an Oracle database.
- Oracle Utilities Network Management System – Application version v1.11.0.4 installed on an Oracle database.
- Oracle Utilities Customer Care and Billing release 2.4.0.2 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:

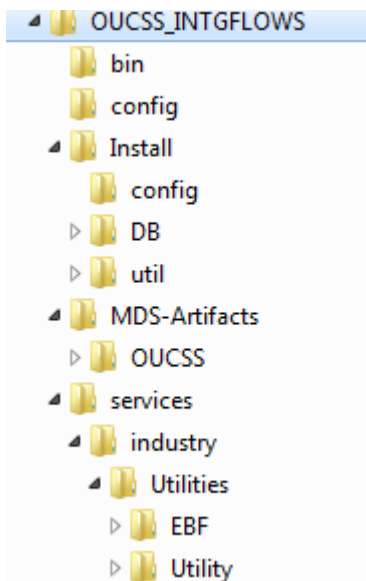
- Ensure that the Oracle SOA Suite is installed and running. (Software Version: SOA11g / Oracle Enterprise Manager 11.1.1.8.0 on WebLogic Server 10.3.6).
- For more information on SOA, refer to the documentation at <http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html#111130>

- 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%.

## Installing the Integration

- 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
<b>Unix/Linux and Windows OS</b>	
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/OUCCS_INTGFLWS
	Windows: PRODUCT_HOME=D:\Oracle\OUCCS_INTGFLWS

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%\wlserver_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:/OUCCS\_INTGFLWS).
- 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>\OUCCS\_INTGFLWS folder which is referred as PRODUCT\_HOME. Example: PRODUCT\_HOME=/slot/oracle/ OUCCS\_INTGFLWS where you unzipped OUCCS\_INTGFLWS.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 [Appendix E](#) for a sample of 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, 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.
- 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.

- 6 Execute the following command to complete the BPEL Flows integration installation

**On UNIX/Linux:**

```
cd $PRODUCT_HOME/bin
ant -f InstallBuild.xml install -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of install log>
Example: ant -f InstallBuild.xml install -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l installflowsunix.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin

ant -f InstallBuild.xml install -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of install log>
Example: ant -f InstallBuild.xml install -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l installflowswin.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.

- 7 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 $PRODUCT_HOME/bin
ant -f InstallOptionalFlowsBuild.xml install -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of install log>
Example: ant -f InstallOptionalFlowsBuild.xml install -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l installOptflowsunix.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin

ant -f InstallOptionalFlowsBuild.xml install -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of install log>
Example: ant -f InstallOptionalFlowsBuild.xml install -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l installOptflowswin.log
```

**Notes:**

- In OUCSS 2.1.0.1 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.

## Post-Installation Checklist for mandatory CSS BPEL flows

### Data Source Configurations Checklist

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

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

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: s

Home > Summary of JDBC Data Sources

**Summary of JDBC Data Sources**

Configuration Monitoring

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

Customize this table

**Data Sources (Filtered - More Columns Exist)**

New Delete Showing 1 to 11 of 11 Previous

Name	Type	JNDI Name	Targets
CCB2-MDM2EHDS	Generic	jdbc/CCB2-MDM2EHDS	soa_server1
<b>CSSNMSDataSource1</b>	Generic	jdbc/CSSNMSDataSource1	soa_server1
<b>CSSNMSMultiDS</b>	Multi	jdbc/CSSNMSMultiDS	soa_server1
EDNDataSource	Generic	jdbc/EDNDataSource	AdminServer, soa_server1
EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	AdminServer, soa_server1
mds-owsm	Generic	jdbc/mds/owsm	AdminServer, soa_server1
mds-soa	Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1
OraSDPDataSource	Generic	jdbc/OraSDPDataSource	AdminServer, soa_server1
<b>OUCSSEHDS</b>	Generic	jdbc/OUCSSEHDS	soa_server1
SOADataSource	Generic	jdbc/SOADataSource	AdminServer, soa_server1
SOALocalTxDataSource	Generic	jdbc/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.

**ORACLE WebLogic Server® Administration Console**

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: soa\_domain

Home > Summary of JDBC Data Sources > CSSNHSDDataSource1

**Settings for CSSNHSDDataSource1**

Configuration Targets Monitoring Control Security Notes

General **Connection Pool** Oracle ONS Transaction Diagnostics Identity Options

Save

The connection pool within a JDBC data source contains a group of JDBC connections that applications reserve, use, and then return to the pool. The connection pool and the connections within it are created when the connection pool is registered, usually when starting up WebLogic Server or when deploying the data source to a new target.

Use this page to define the configuration for this data source's connection pool.

**URL:** jdbc:oracle:thin:@msp-db02.us.oracle.com:1521:NMS11G

The URL of the database to connect to. The format of the URL varies by JDBC driver. [More Info...](#)

**Driver Class Name:** oracle.jdbc.xa.client.OracleXADataSource

The full package name of JDBC driver class used to create the physical database 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...](#)

**Properties:**

user=nms2\_msp28059  
DatabaseName=NMS11GR2DB02

The list of properties passed to the JDBC driver that are used to create physical database connections. For example: server=observer1. List each property=value pair on a separate line. [More Info...](#)

**System Properties:**

The list of System Properties names passed to the JDBC driver that are used to create physical database connections. For example: server=observer1. List each property=value pair on a separate line. [More Info...](#)

**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**

Home Log Out Preferences Record Help

Home > Summary of JDBC Data Sources > CSSNHSDDataSource1

**Settings for CSSNHSDDataSource1**

Configuration Targets **Monitoring** Control Security Notes

Statistics **Testing**

Use this page to test database connections in this JDBC data source.

**Customize this table**

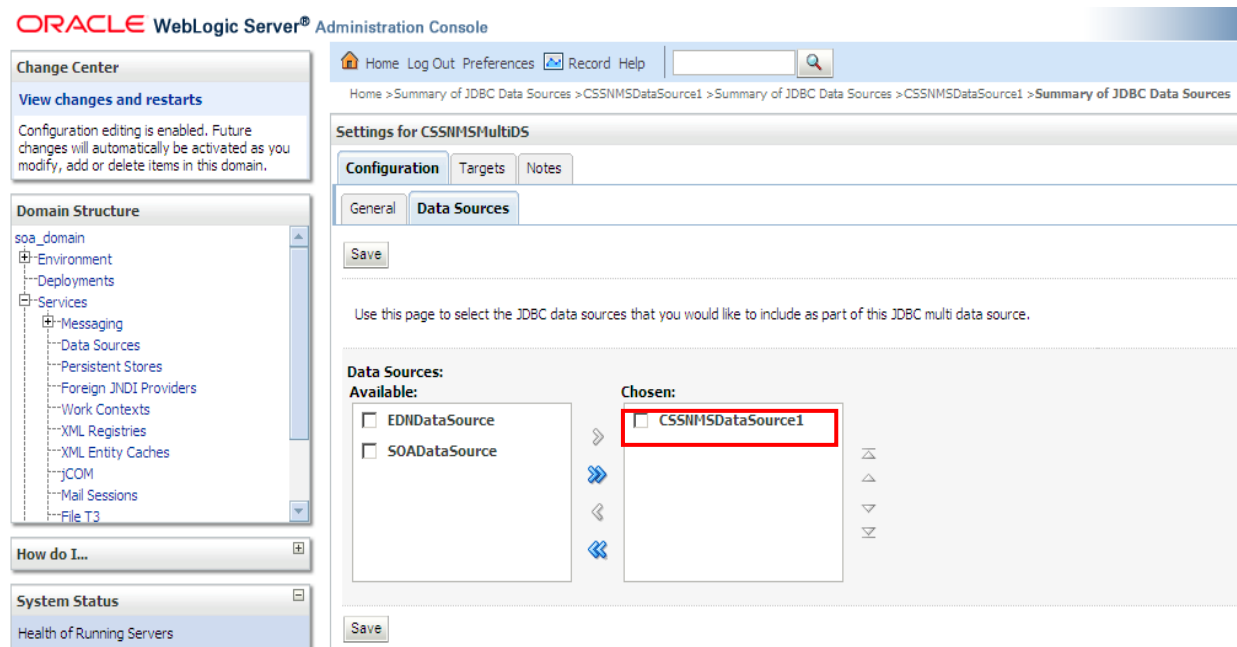
**Test Data Source (Filtered - More Columns Exist)**

Test Data Source

Server	State
soa_server1	Running

Test Data Source

### 4 Check the NMS Generic Data Source(s) is linked to the NMS Multi Data Source(s).



## Database Outbound Connection Pool

- 1 Ensure that following two connection instances are created on the server:  
`eis/DB/OUCSSErrorHandlerHandling: ErrorHandlerHandling` 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.

**ORACLE WebLogic Server® Administration Console**

Home > Summary of JDBC Data Sources > CSSNMSDataSource1 > Summary of JDBC Data Sources > CSSNMSDataSource1 > Summary of JDBC Data Sources > Summary of Deployments > DbAdapter

**Settings for javax.resource.cci.ConnectionFactory**

General Properties Transaction Authentication Connection Pool Logging

This page allows you to view and modify the configuration properties of this outbound connection pool. Properties you modify here are saved to a deployment plan.

**Outbound Connection Properties**

Property Name	Property Type	Property Value
dataSourceName	java.lang.String	
defaultNChar	java.lang.Boolean	false
platformClassName	java.lang.String	org.eclipse.persistence.platform.database.Oracle10Platform
sequencePreallocationSize	java.lang.Integer	1
usesBatchWriting	java.lang.Boolean	true
usesNativeSequencing	java.lang.Boolean	true
usesSkipLocking	java.lang.Boolean	true
xaDataSourceName	java.lang.String	jdbc/CSSNMSMultiDS

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

**ORACLE WebLogic Server® Administration Console**

Home > Summary of JDBC Data Sources > CSSNMSDataSource1 > Summary of JDBC Data Sources > Summary of Deployments > DbAdapter > Summary of Deployments > DbAdapter > Summary of JDBC Data Sources > CSSNMSDataSource1 > Summary of JDBC Data Sources

**Settings for CSSNMSMultiDS**

Configuration Targets Notes

General Data Sources

Save

Use this page to define the general configuration for this JDBC multi data source. A JDBC multi data source is an abstraction around a group of data sources that provides load balancing and failover between data sources.

\* Indicates required fields

**Name:** CSSNMSMultiDS

**\* JNDI Name:** jdbc/CSSNMSMultiDS

**Algorithm Type:** Load-Balancing

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



The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the Domain Structure tree with 'soa\_domain' expanded, showing 'Environment', 'Deployments', and 'Services'. The 'Services' folder is expanded, showing 'Data Sources'. The main content area displays the 'Settings for javax.resource.cci.ConnectionFactory' for the 'jdbc/OUCSSEHDS' data source. The 'Properties' tab is selected, showing a table of properties:

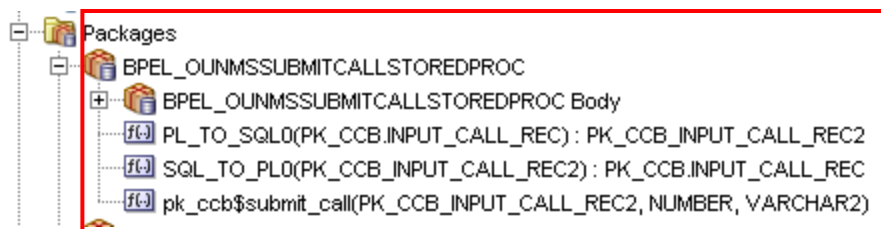
Property Name	Property Type	Property Value
dataSourceName	java.lang.String	jdbc/OUCSSEHDS
defaultVChar	java.lang.Boolean	false
platformClassName	java.lang.String	org.eclipse.persistence.platform.database.Oracle10Platform
sequencePreallocationSize	java.lang.Integer	1
usesBatchWriting	java.lang.Boolean	true
usesNativeSequencing	java.lang.Boolean	true
usesSkipLocking	java.lang.Boolean	true
xADataSourceName	java.lang.String	

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

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar contains the Domain Structure tree with 'soa\_domain' expanded, showing 'Environment', 'Deployments', and 'Services'. The 'Services' folder is expanded, showing 'Data Sources'. The main content area displays the 'Settings for OUCSSEHDS' data source. The 'General' tab is selected, showing the 'JNDI Name' field with the value 'jdbc/OUCSSEHDS' highlighted by a red box. Below the JNDI Name field, there are checkboxes for 'Row Prefetch Enabled' and 'Stream Chunk Size'.

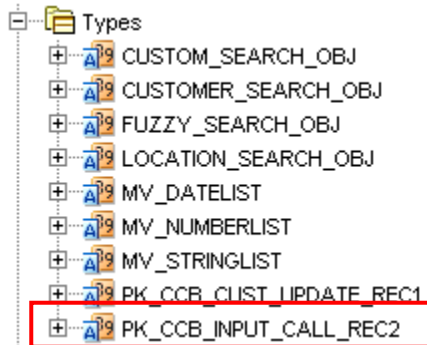
## Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database

- 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.

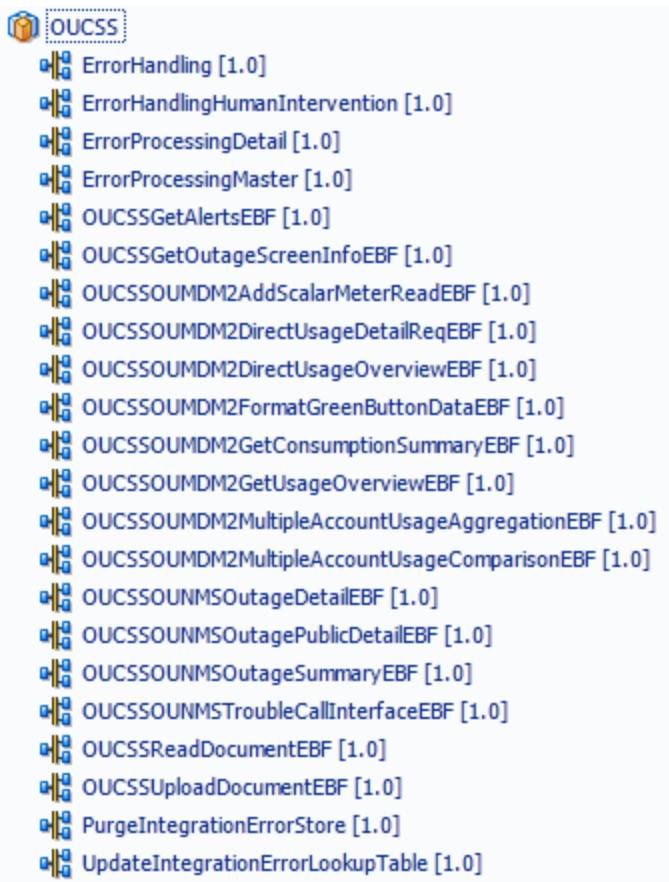


**Note:** This type is being used by the BPEL Wrapper Procedure.

## Verifying Composites in Enterprise Manager

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

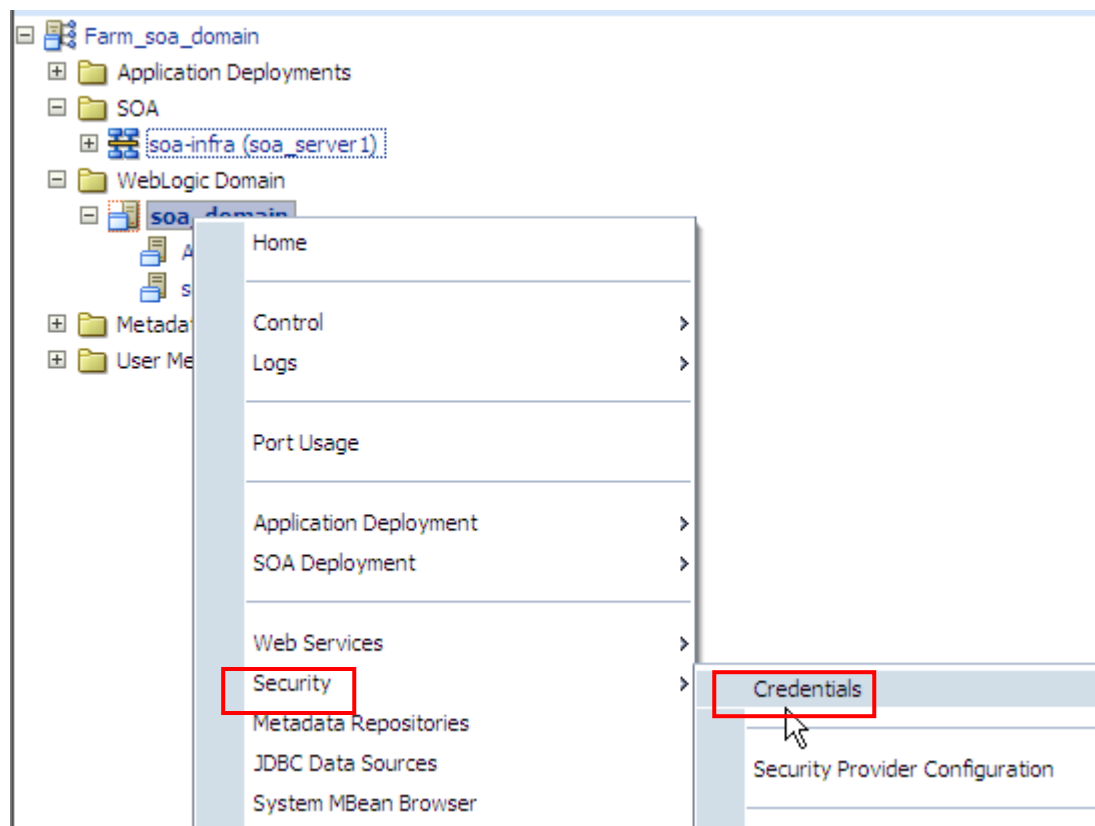
- 1 Log in to Enterprise Manager.
- 2 Expand the Farm\_soa\_domain>soa>soa-infra>OUCSS partition.
- 3 Verify that these composites are deployed:



## 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**.



- 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 ./

<a href="#">+ Create Map</a> <a href="#">+ Create Key</a> <a href="#">Edit...</a> <a href="#">Delete...</a>			Credential Key Name	<input type="text"/>	<a href="#">▶</a>
Credential	Type	Description			
<ul style="list-style-type: none"> <li>BPM-CRYPTO</li> <li><b>oracle.wsm.security</b> <ul style="list-style-type: none"> <li>OU_CCB_01</li> <li>OU_MDM2_02</li> </ul> </li> </ul>					
	Password	CCB Edge Application WS Credentials			
	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	Type	Usage
 <b>WXGetCCBAAlertsService</b>	Web Service	Service
 OUNMSCheckCurrentOutageService	JCA Adapter	Reference
 <b>OUCCBGetAlertsService</b>	Web Service	Reference
 OUNMSCheckPlannedOutageService	JCA Adapter	Reference
 OUCSSGetAlertsExtension	Web Service	Reference

Verify that the **WXGetCCBAAlertsService** 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 Rejected Messages Properties

Globally Attached Policies



Policy Name	Policy Set	Category	Total Violations	Security Violations		
				Authentication	Authorization	Confidentiality
No rows yet						

#### Directly Attached Policies

	Attach/Detach					
Policy Name	Category	P... R... S...	Total Violations	Security Violations		
				Authentication	Authorization	Confidentiality
<b>oracle/Utilities_wss_http_token_service_policy_OPT_ON</b>	Security	...	0	0	0	0

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			
<b>oracle/wss_http_token_client_policy</b>			

#### Security Configuration Details

Name	Current Value	Original Value
csf-key	<b>OU_CCB_01</b>	basic.credentials



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

Services and References		
Name	Type	Usage
 <b>oucsggetoutagescreeninfo_client_ep</b>	Web Service	Service
 <b>OUCCBGetServiceDetails</b>	Web Service	Reference
 OUCSSGetOutageScreenInfoExtension	Web Service	Reference
 OUNMSGetTroubleCodes	JCA Adapter	Reference

Verify that the **oucsggetoutagescreeninfo\_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	Type	Usage
 OUCSSOUNMSOutageSummary_ep	Web Service	Service
 OUNMSOutageSummaryService	JCA Adapter	Reference
 OUCSSOUNMSOutageSummaryExtensionService	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	Type	Usage
 OUCSSOUNMSOutageDetail_ep	Web Service	Service
 OUCSSOUNMSOutageDetailExtensionService	Web Service	Reference
 OUCCBGetServiceDetails	Web Service	Reference
 OUNMSJobHistStPrCurrentOutageDetailService	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	Type	Usage
 oucssounmstroublecallinterfaceebf_client_ep	Web Service	Service
 OUNMSSubmitCallStoredProcedure	JCA Adapter	Reference
 OUCSSOUNMSTroubleCallInterfaceExtension	Web Service	Reference
 ErrorHandling	Web Service	Reference

Verify that the **oucssounmstroblecallinterfaceebf\_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	Type	Usage
 OUCSSOUNMSOutagePublicDetail_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 OUCSSOUNMDM2DirectUsageDetailReqEBF, scroll down to the Services and References section.

Services and References			
Name	Type	Usage	F
 <b>WXUsageDetailService</b>	Web Service	Service	
 OUCSSOUMDM2DirectUsageDetailReqExtension	Web Service	Reference	
 <b>OUMDMUsageDetailService</b>	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	
<b>oracle/wss_http_token_client_policy</b>	

### Security Configuration Details

Name	Current Value	Original Value
csf-key	<b>OU_MDM2_02</b>	basic.credentials




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

Services and References		
Name	Type	Usage
 <b>WXUsageOverviewService</b>	Web Service	Service
 OUCSSOUMDM2DirectUsageOverviewExtension	Web Service	Reference
 <b>OUMDMUsageOverviewService</b>	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	Type	Usage
 <b>OUCSSOUMDM2GetConsumptionSummary_client_ep</b>	Web Service	Service
 OUCSSOUMDM2GetConsumptionSummaryExtensionService	Web Service	Reference
 <b>OUMDM2WXGetScalarConsumptionSummaryService</b>	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	Type	Usage
 OUCSSOUMDM2AddScalarMeterRead_client_ep	Web Service	Service
 OUMDMWX-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	Type	Usage
 OUCSSOUMDM2GetUsageOverview_client_ep	Web Service	Service
 OUCSSOUMDM2FormatGreenButtonDataService	Web Service	Reference
 OUCCBWXUsageOverviewService	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	Type	Usage
 OUCSSOUMDM2FormatGreenButtonData_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	Type	Usage
 OUCSSOUMDM2MultipleAccountUsageAggregation_Client_ep	Web Service	Service
 OUMDM2MultipleAccountUsageAggregationService	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	Type	Usage
 OUCSSOUMDM2MultipleAccountUsageComparison_Client_ep	Web Service	Service
 OUMDM2MultipleAccountUsageComparisonService	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	Type	Usage
 oucssreaddocumentprocess_client_ep	Web Service	Service
 OUCSSReadDocumentService	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.

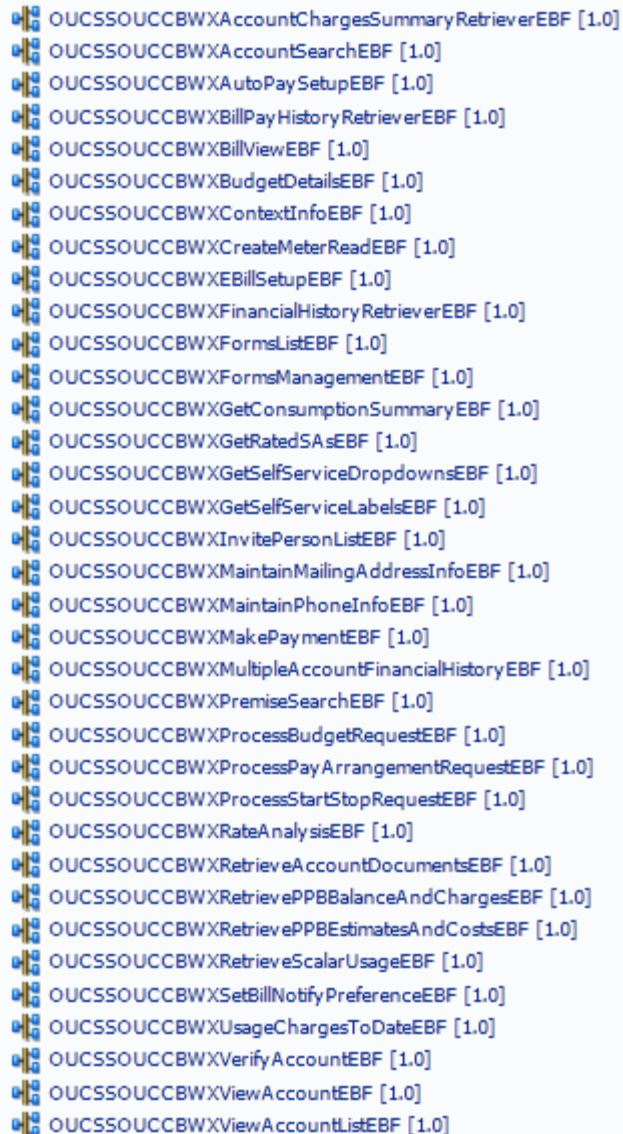
Services and References		
Name	Type	Usage
 oucssuploaddocumentprocess_client_ep	Web Service	Service
 DeleteFileAdapterService	JCA Adapter	Reference
 FileUploadAdapterService	JCA Adapter	Reference

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:

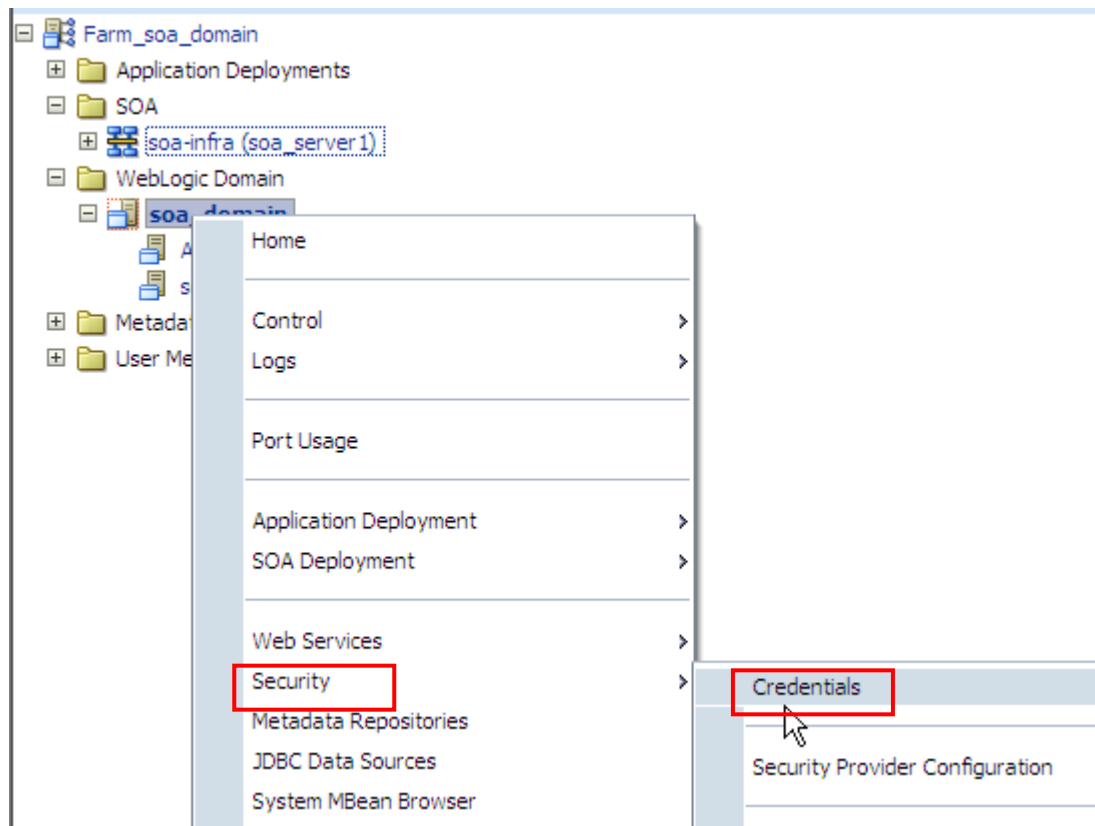


```
UCSSOUCBWXAccountChargesSummaryRetrieverEBF [1.0]
UCSSOUCBWXAccountSearchEBF [1.0]
UCSSOUCBWXAutoPaySetupEBF [1.0]
UCSSOUCBWXBillPayHistoryRetrieverEBF [1.0]
UCSSOUCBWXBillViewEBF [1.0]
UCSSOUCBWXBudgetDetailsEBF [1.0]
UCSSOUCBWXContextInfoEBF [1.0]
UCSSOUCBWXCreateMeterReadEBF [1.0]
UCSSOUCBWXEBillSetupEBF [1.0]
UCSSOUCBWXFinancialHistoryRetrieverEBF [1.0]
UCSSOUCBWXFormsListEBF [1.0]
UCSSOUCBWXFormsManagementEBF [1.0]
UCSSOUCBWXGetConsumptionSummaryEBF [1.0]
UCSSOUCBWXGetRatedSAsEBF [1.0]
UCSSOUCBWXGetSelfServiceDropdownsEBF [1.0]
UCSSOUCBWXGetSelfServiceLabelsEBF [1.0]
UCSSOUCBWXInvitePersonListEBF [1.0]
UCSSOUCBWXMaintainMailingAddressInfoEBF [1.0]
UCSSOUCBWXMaintainPhoneInfoEBF [1.0]
UCSSOUCBWXMakePaymentEBF [1.0]
UCSSOUCBWXMultipleAccountFinancialHistoryEBF [1.0]
UCSSOUCBWXPremiseSearchEBF [1.0]
UCSSOUCBWXProcessBudgetRequestEBF [1.0]
UCSSOUCBWXProcessPayArrangementRequestEBF [1.0]
UCSSOUCBWXProcessStartStopRequestEBF [1.0]
UCSSOUCBWXRateAnalysisEBF [1.0]
UCSSOUCBWXRetrieveAccountDocumentsEBF [1.0]
UCSSOUCBWXRetrievePPBalanceAndChargesEBF [1.0]
UCSSOUCBWXRetrievePPEstimatesAndCostsEBF [1.0]
UCSSOUCBWXRetrieveScalarUsageEBF [1.0]
UCSSOUCBWXSetBillNotifyPreferenceEBF [1.0]
UCSSOUCBWXUsageChargesToDateEBF [1.0]
UCSSOUCBWXVerifyAccountEBF [1.0]
UCSSOUCBWXViewAccountEBF [1.0]
UCSSOUCBWXViewAccountListEBF [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**.



- 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 WebLogic Domain  
 Provider SSP  
 Location ./



<a href="#">+ Create Map</a> <a href="#">+ Create Key</a> <a href="#">Edit...</a> <a href="#">Delete...</a>			Credential Key Name	<input type="text"/>	<a href="#">▶</a>
Credential	Type	Description			
[-] 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 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	Type	Usage	Faults	Total Messages
 OUCSSOUCCBWXAccountSearch_Client_ep	Web Service	Service	0	1
 OUCCB_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.

 **OUCSSOUCCBWXAccountSearchEBF [1.0]**  Logged in a

 SOA Composite ▾

OUCSSOUCCBWXAccountSearchEBF [1.0] > Service Home

 **OUCSSOUCCBWXAccountSearch\_Client\_ep (Web Service)** 

Dashboard Policies **Faults and Rejected Messages** Properties

Subject's 0

### Globally Attached Policies

Policy Name	Category	Policy Set	Status
No rows yet			

### Directly Attached Policies

 Attach/Detach

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.

↑ OUCSSOUCCBWXAccountSearchEBF [1.0] ⓘ Logged in as **weblogic** | Hos

SOA Composite ▾

OUCSSOUCCBWXAccountSearchEBF [1.0] > Reference Home

OUCCB\_WXAccountSearchService (Web Service) ⓘ

Dashboard Policies Faults Properties

### Globally Attached Policies

Name	Category	Policy Set
No rows yet		

### Directly Attached Policies

Attach/Detach Disable

Name	Category
oracle/wss_http_token_client_policy	Security

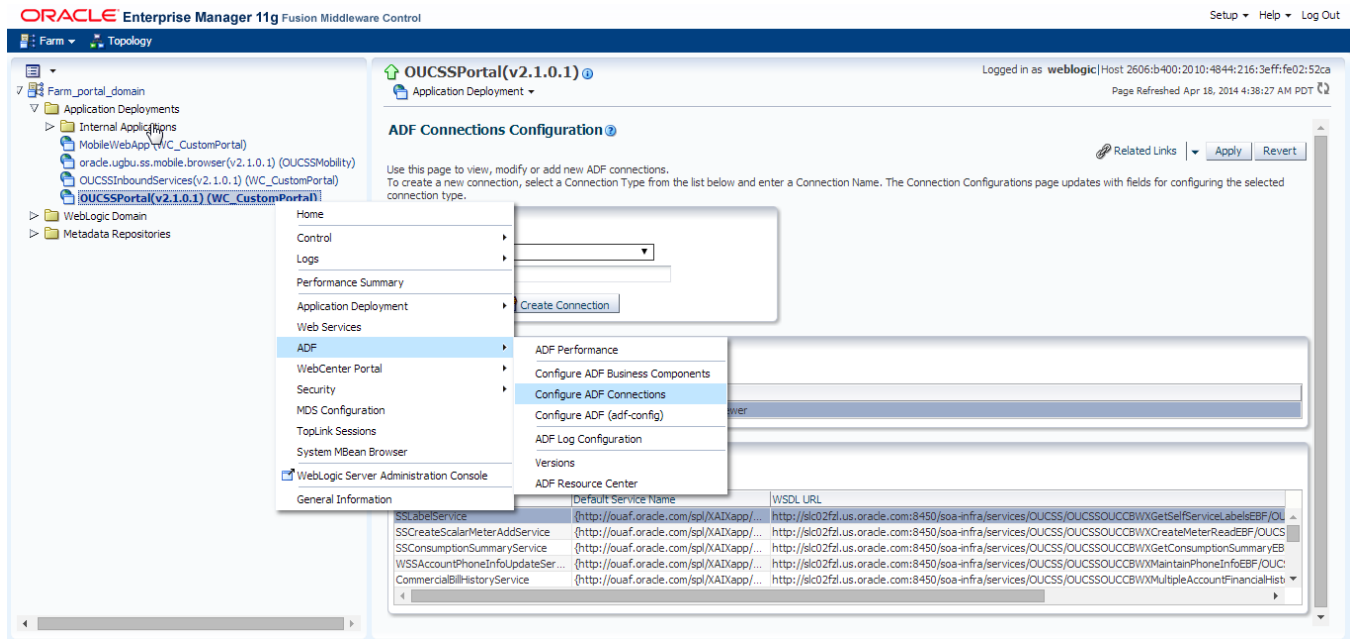
### Security Configuration Details

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

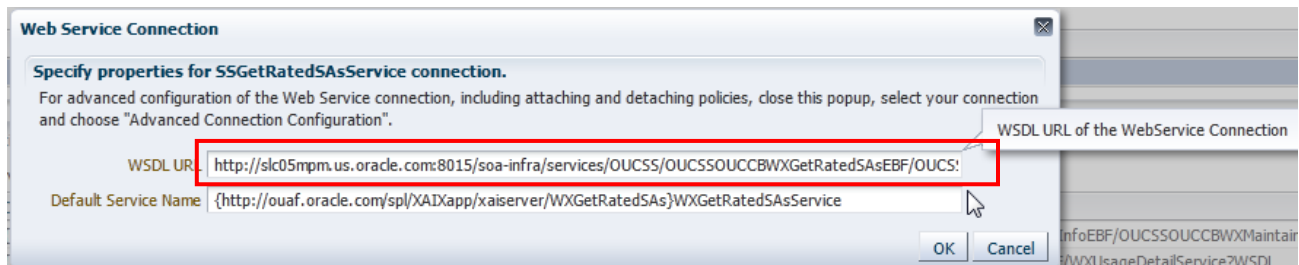
## Verify ADF Connection in OUCSS Enterprise Manager

Verify that the OUCSS-OUCCB *wsdl*s 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(v2.1.0.1)** from **Application Deployments**, then right-click and choose **ADF > Configure ADF Connections** from the context menu as shown in the following image:



- 3 Under **Webserver connections**, each connection name should show a corresponding OUCSSOUCB 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/OUCSSOUCBWXGetRatedSAsEBF/OUCSSOUCBWXGetRatedSAs_Client_ep?WSDL`) and WSDL opens, then tokenization has been completed correctly.



- 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., `http://soahostname:soaportno/soa-infra/services/OUCSS/OUCSSOUCBWXGetRatedSAsEBF/OUCSSOUCBWXGetRatedSAs_Client_ep`)

ADF Connections Configuration > Configure Web Service

### WXGetRatedSAsPort (Web Service Client)

OWSM Policies Configuration

**General**

Endpoint Address

Maintain Session ☐

**HTTP Chunking**

Stop Chunking ☐

Chunking Size(bytes)

**HTTP Timeout**

HTTP Read Timeout (ms)

HTTP Connection Timeout (ms)

- 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.

ADF Connections Configuration > Configure Web Service  
**WXGetRatedSAsPort (Web Service Client)**

**OWSM Policies**    Configuration

---

**Globally Attached Policies**

Name
No rows yet

---

**Directly Attached Policies**

✦ Attach/Detach    ✎ Disable

Name
oracle/wss_http_token_client_policy

---

**Security Configuration Details**

Name	Current Value	Original Value
reference.priority		
csf-key	OUCSS_INTG_BASIC_KEY	basic.credentials

- 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
```

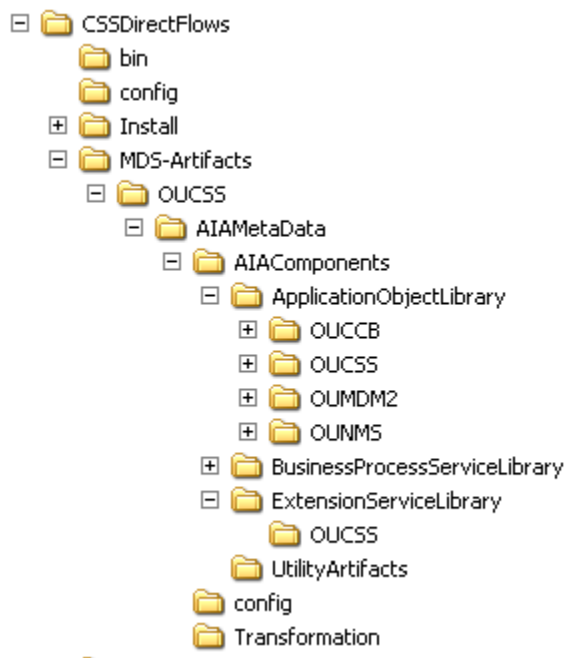
### On Windows:

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



## MDS Deployment Examples

The Product Home folder (e.g., OUCSS\_INTGFWLWS) 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 [Appendix E](#) for a sample 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, 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 $PRODUCT_HOME/bin
ant -f UninstallOptionalFlowsBuild.xml UnInstall -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of install log>
Example: ant -f UninstallOptionalFlowsBuild.xml UnInstall -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l
uninstallOptflowsunix.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin
ant -f UninstallOptionalFlowsBuild.xml UnInstall -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of install log>
Example: ant -f UninstallOptionalFlowsBuild.xml UnInstall -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l
uninstallOptflowsunix.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 $PRODUCT_HOME/bin
ant -f UninstallBuild.xml UnInstall -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of install log>
Example: ant -f UninstallBuild.xml UnInstall -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l uninstallflowsunix.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin
ant -f UninstallBuild.xml UnInstall -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of install log>
Example: ant -f UninstallBuild.xml UnInstall -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l uninstallflowsunix.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 running the uninstall again.

# 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*

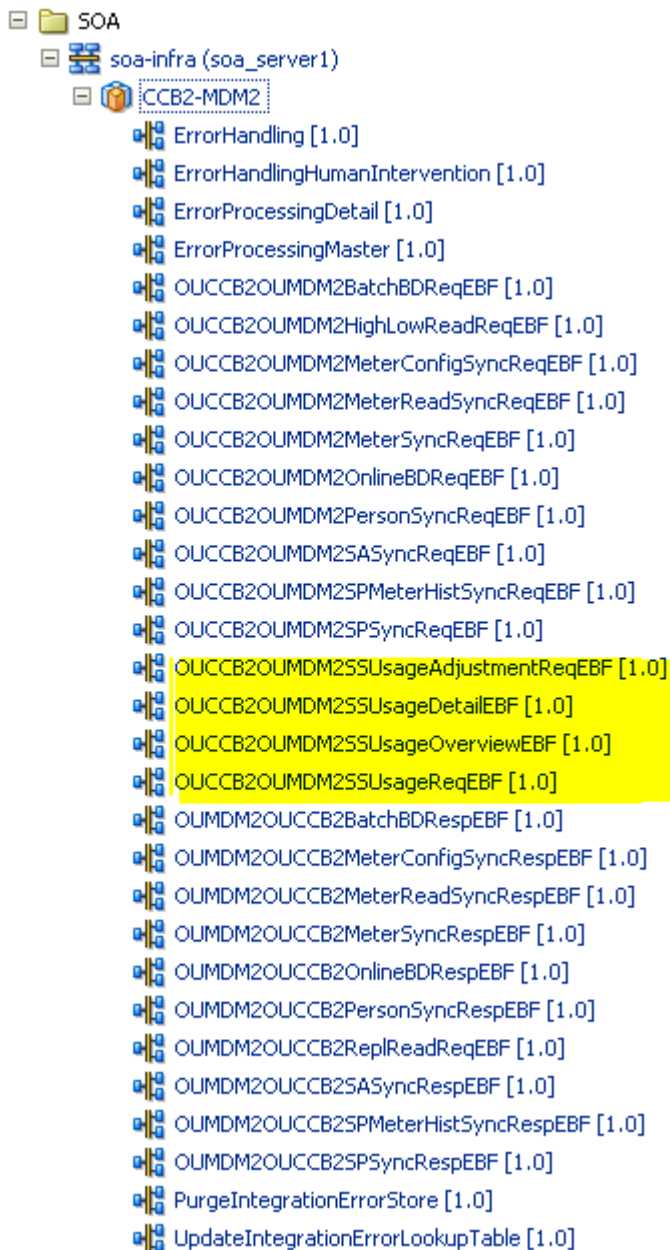
- 1 Log in to Enterprise Manager.
- 2 Expand the Farm\_soa\_domain>soa>soa-infra>CCB2-MDM2 partition.
- 3 Verify that following four composites are deployed:

OUCCB2OUMDM2SSUsageDetailEBF

OUCCB2OUMDM2SSUsageOverviewEBF

OUCCB2OUMDM2SSUsageReqEBF

OUCCB2OUMDM2SSUsageAdjustmentReqEBF



**Note:** Only OUCCB2OUMDM2SSUsageReqEBF and OUCCB2OUMDM2SSUsageAdjustmentReqEBF are being used by OUCSS.

# 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:

- SOA11g / Oracle Enterprise Manager 11.1.1.8.0 on WebLogic Server 10.3.6.
- OUNC is certified with the following edge applications:
  - Oracle Utilities Customer Care and Billing v2.4.0.1 +
  - Oracle Utilities Network Management System v1.11.0.4 +

### Pre-Installation Tasks

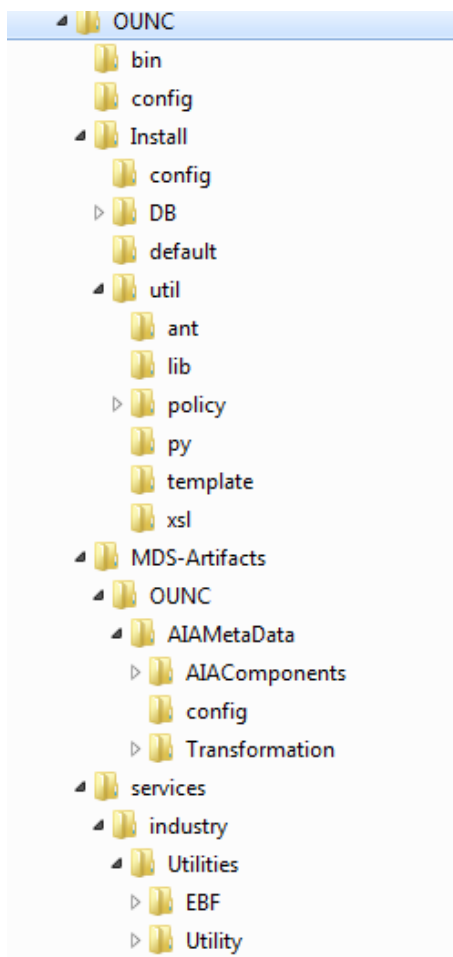
The following tasks should be completed before you install the OUNC BPEL flows:

- Ensure that the Oracle SOA Suite is installed and running. (Software Version: SOA11g / Oracle Enterprise Manager 11.1.1.8.0 on WebLogic Server 10.3.6).
- For more information on SOA, refer to the documentation at <http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html#111130>
- 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%.

## Installing the Integration

- 1 Download and extract the OUNC.zip from the Oracle Software Delivery Cloud ([edelivery.oracle.com](http://edelivery.oracle.com)) to create a 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.



- 2 Set the following environment variables:

Variable	Example
<b>Unix/Linux and Windows OS</b>	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware
WL_HOME	XXX/Middleware
PRODUCT_VERSION	2.1.0.1
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%\wlserver_10.3\server\bin\setWLSEnv.cmd
```

**Notes:**

- Do not delete the install directory. This directory is used as the download location for patches.
- For a Windows installation, when updating any of the properties listed in the table below, 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 [Appendix F](#) for a sample of the OUNC *InstallProperties.xml* file and an explanation of the properties and elements available in the file.

**Notes:**

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.

**Notes:**

If no extra data are needed or the system only support 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
    - o 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 $PRODUCT_HOME/bin
ant -f InstallBuild.xml installOUNCDB -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of install log>
Example: ant -f InstallBuild.xml installOUNCDB -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l ouncinstalldbrun.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin
ant -f InstallBuild.xml installOUNCDB -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of install log>
Example: ant -f InstallBuild.xml installOUNCDB -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l ouncinstalldbrun.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 complete the BPEL Flows integration installation

**On UNIX/Linux:**

```
cd $PRODUCT_HOME/bin
```



```
ant -f InstallBuild.xml installOUNC -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of install log>
```

Example: ant -f InstallBuild.xml installOUNC -  
DInstallProperties=\$PRODUCT\_HOME/config/InstallProperties.xml -l ouncinstallrun.log

#### On Windows:

```
cd %PRODUCT_HOME%/bin
ant -f InstallBuild.xml installOUNC -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of install log>
```

Example: ant -f InstallBuild.xml installOUNC -  
DInstallProperties=%PRODUCT\_HOME%/config/InstallProperties.xml -l ouncinstallrun.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.

## 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:**

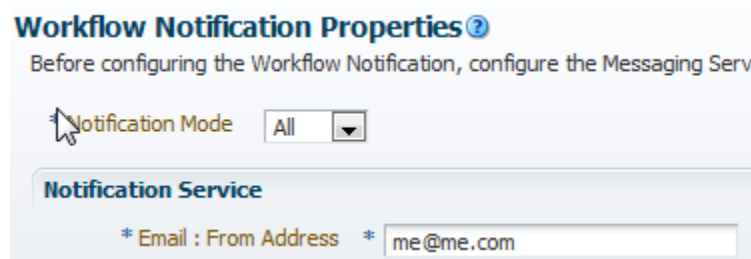
```
ant -f InstallBuild.xml bounceServers -  
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l restartOUNC1.log
```

**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.

**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.

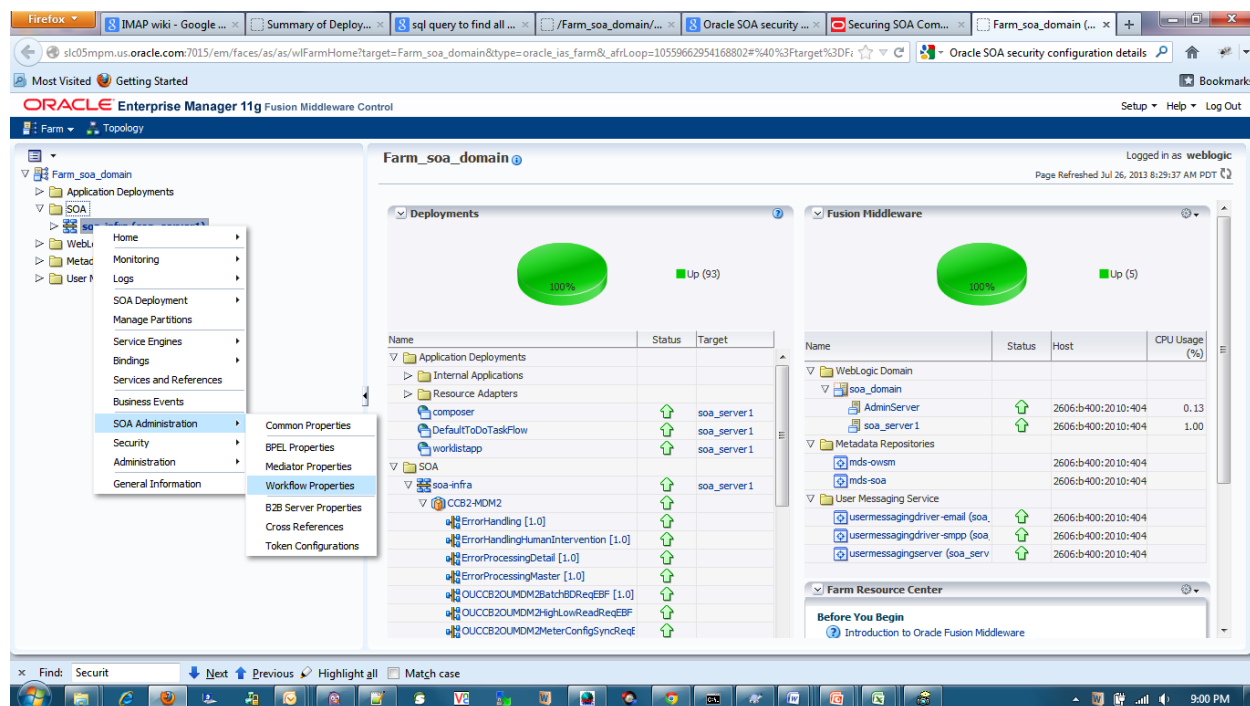
## Post Installation Checklist

### Verify the User Messaging Service List

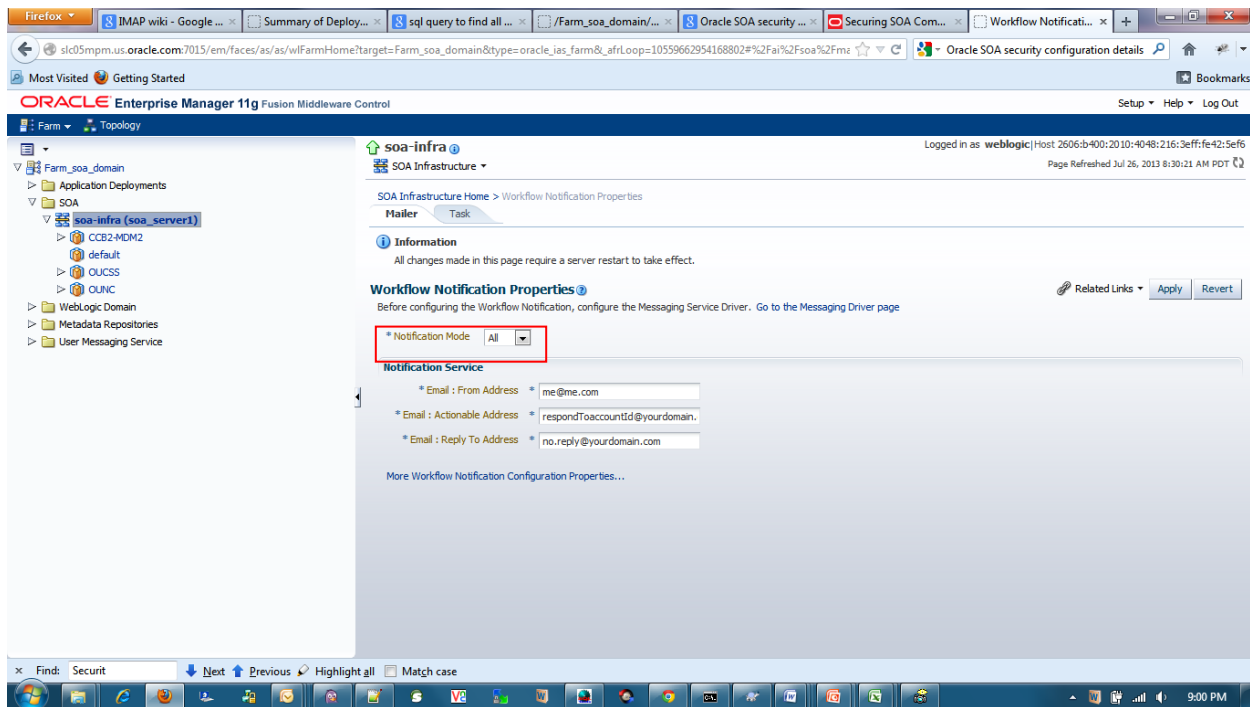
Go to the Deployments Section in the WebLogic administration console section and ensure that the below two application of the user messaging service are active as depicted below

	UMSAdapter	Active	✓ OK	Resource Adapter	330
	usermessagingdriver-email	Active	✓ OK	Enterprise Application	200
	usermessagingdriver-extension	Installed		Enterprise Application	205
	usermessagingdriver-smpp	Active	✓ OK	Enterprise Application	203
	usermessagingdriver-voicexml	Installed		Enterprise Application	204
	usermessagingdriver-xmlpp	Installed		Enterprise Application	202
	usermessagingserver	Active	✓ OK	Enterprise Application	100

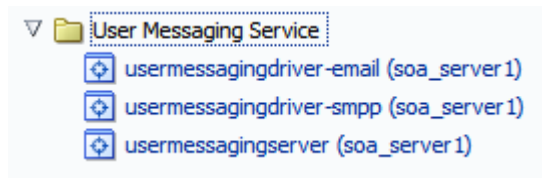
Navigate to WebLogic Enterprise Manager, right click on soa-infra node then select SOA Administration and Workflow Properties



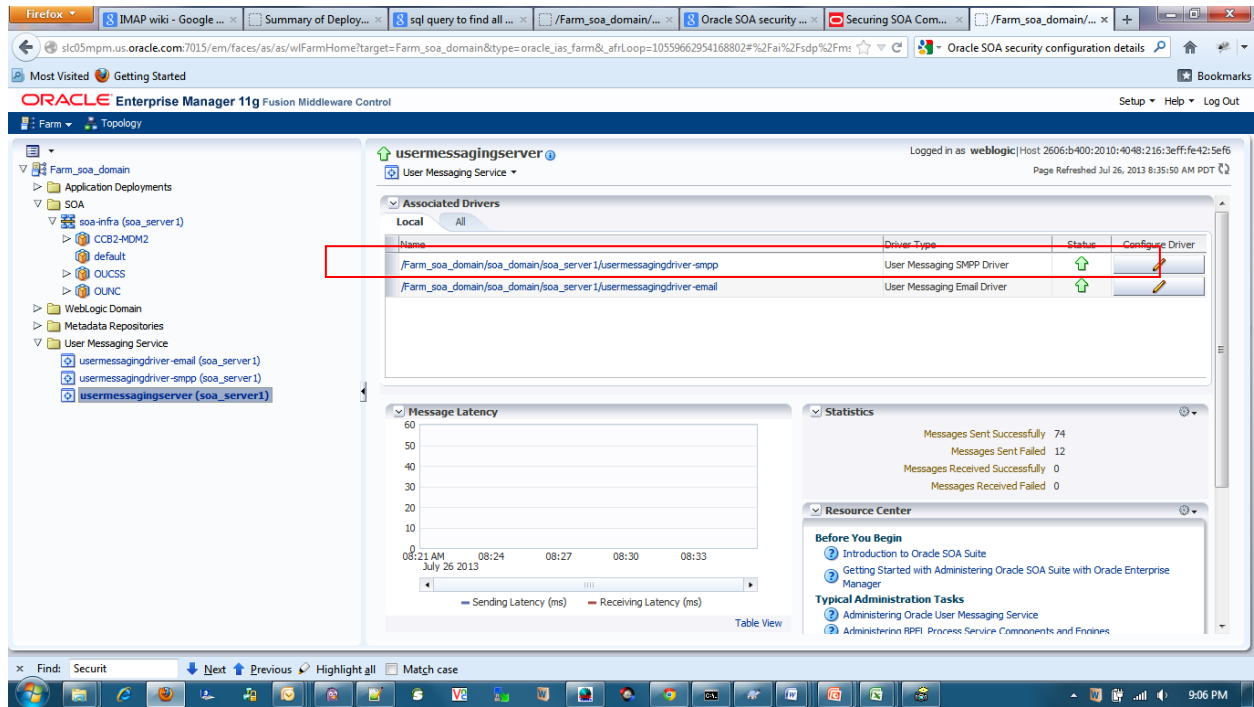
- 1 Ensure that the Work flow notification properties are set as “All”.



- 2 Expand the User Messaging service node in the EM left panel as

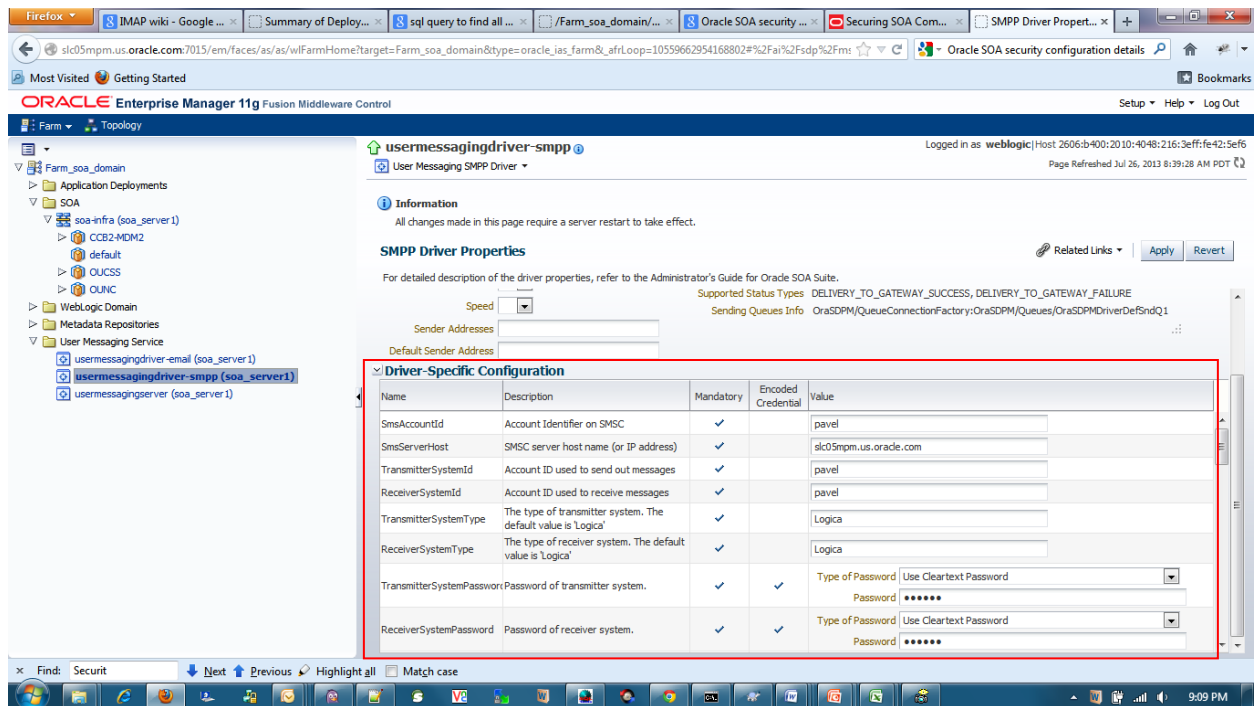


- 3 Ensure that all these applications are enabled.
- 4 Select the **usermessagingserver** entry, which should have smpp and email enabled as shown in the following image.



## Verify SMPP Properties

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



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

# Verify Email Properties

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

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control console. The left sidebar displays the navigation tree with 'Farm\_soa\_domain' expanded, showing 'Application Deployments' and 'SOA'. Under 'SOA', 'soa-infra (soa\_server1)' is expanded, showing 'CCB2-MDM2', 'default', 'OUCSS', and 'OUNC'. The 'User Messaging Service' is selected, showing 'usermessagingdriver-email (soa\_server1)', 'usermessagingdriver-smpp (soa\_server1)', and 'usermessagingserver (soa\_server1)'. The main content area shows the 'usermessagingserver' configuration page. The 'Associated Drivers' table lists two drivers: 'User Messaging SMTP Driver' and 'User Messaging Email Driver'. The 'User Messaging Email Driver' is highlighted with a red box. Below the table, there are sections for 'Message Latency' (a line graph), 'Statistics' (Messages Sent Successfully: 74, Messages Sent Failed: 12, Messages Received Successfully: 0, Messages Received Failed: 0), and 'Resource Center' (Before You Begin, Typical Administration Tasks).

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.

The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control console. The left sidebar displays the navigation tree with 'Farm\_soa\_domain' expanded, showing 'Application Deployments' and 'SOA'. Under 'SOA', 'soa-infra (soa\_server1)' is expanded, showing 'CCB2-MDM2', 'default', 'OUCSS', and 'OUNC'. The 'User Messaging Service' is selected, showing 'usermessagingdriver-email (soa\_server1)', 'usermessagingdriver-smpp (soa\_server1)', and 'usermessagingserver (soa\_server1)'. The main content area shows the 'usermessagingdriver-email' configuration page. The 'Email Driver Properties' section is visible, including 'Sender Addresses', 'Default Sender Address', and 'Supported Status Types'. The 'Driver-Specific Configuration' table lists properties: 'RetryLimit' (server, if the connection is lost due to some reason. The default value is -1 which means no limit to the number of tries), '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), and '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:
- 2 **OUNCEHDS** – Error Handling Data Source
- 3 **OUNCDS** – Notification Data Source
- 4 **OUNCNMSDS** – NMS Generic Data Source

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

A JDBC data source is an object bound to the JNDI tree that provides database connectivity through a pool of JDBC connections. Applications can look up a data source on the JNDI tree and then borrow a database connection from a data source.

This page summarizes the JDBC data source objects that have been created in this domain.

**Customize this table**

**Data Sources (Filtered - More Columns Exist)**

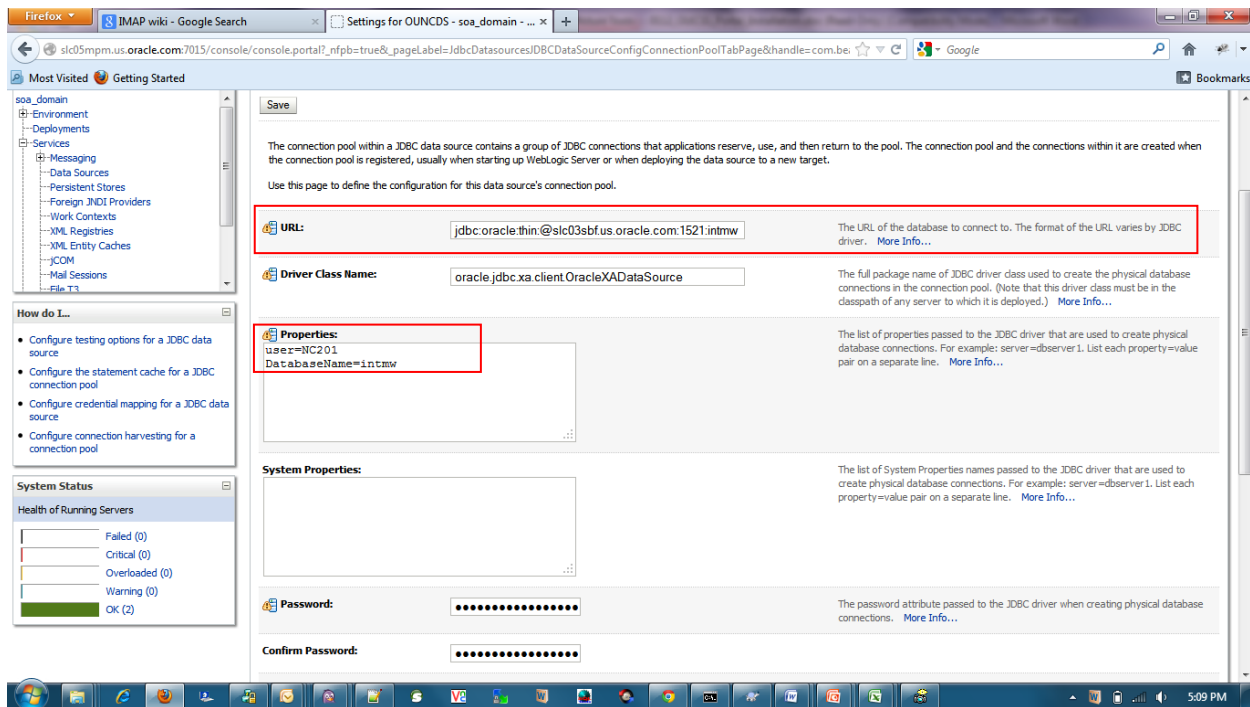
Name	Type	JNDI Name	Targets
CCB2-MDM2EHDS	Generic	jdbc/CCB2-MDM2EHDS	soa_server1
CSSNMSDataSource1	Generic	jdbc/CSSNMSDataSource1	soa_server1
CSSNMSMultiHDS	Multi	jdbc/CSSNMSMultiHDS	soa_server1
EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1
EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
mds-owsm	Generic	jdbc/mds/owsm	AdminServer, soa_server1
mds-soa	Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1
OraSDPMDataSource	Generic	jdbc/OraSDPMDataSource	soa_server1
OUCSSEHDS	Generic	jdbc/OUCSSEHDS	soa_server1
OUNCDS	Generic	jdbc/OUNCDS	soa_server1
OUNCEHDS	Generic	jdbc/OUNCEHDS	soa_server1
OUNCNMSDS	Generic	jdbc/OUNCNMSDS	soa_server1
SOADDataSource	Generic	jdbc/SOADDataSource	soa_server1
SOALocalTxDataSource	Generic	jdbc/SOALocalTxDataSource	soa_server1

- 5 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.



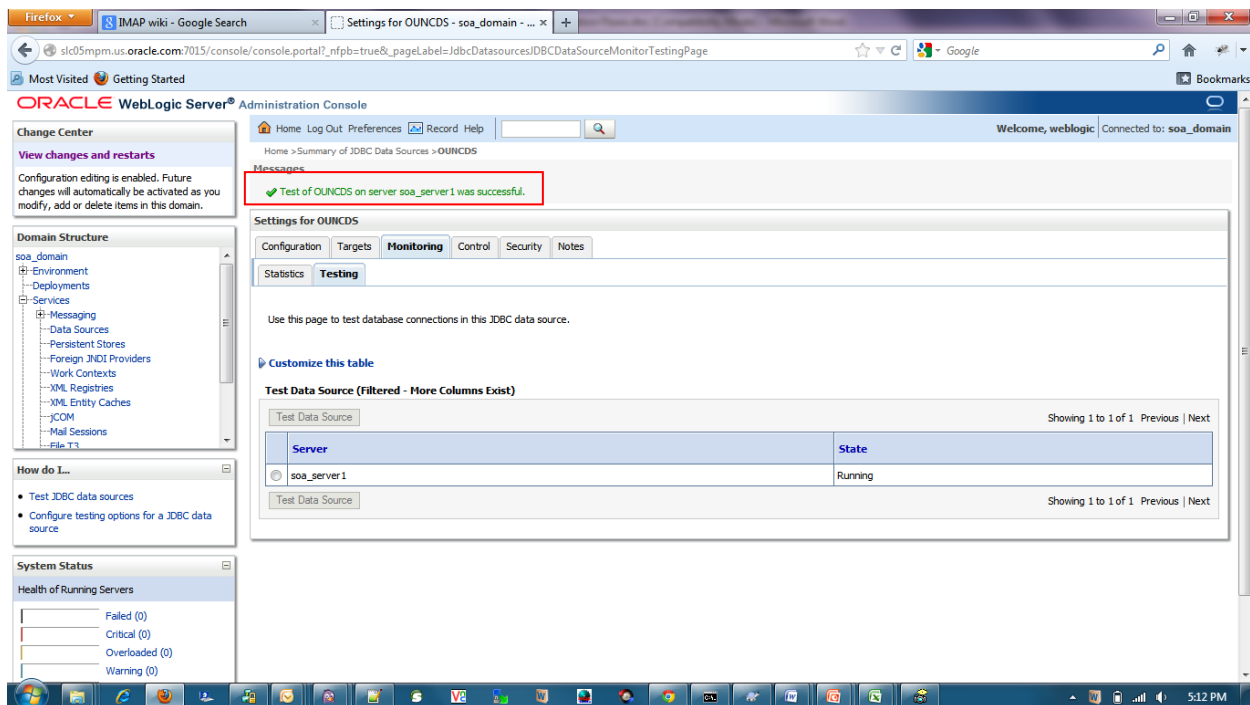


**B** Verify that the Error Handling Data Source **OUNCEHDS** is pointing to the correct Error Handling Database.

**C** As well as verify that the **OUNCDS** is pointing to the correct Notification data base.

## 6 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.





# JMS Configurations

Check for the JMS Server Configuration by Navigating through **Services > Messages > JMS Servers**.

The screenshot shows the Oracle WebLogic Server Administration Console. The left sidebar displays the Domain Structure with the path **soa\_domain > Environment > Deployments > Services > Messaging > JMS Servers** selected. The main content area is titled "Summary of JMS Servers" and contains a table of JMS servers. The table has columns: Name, Persistent Store, Target, Current Server, and Health. The row for **OUNCJMServer** is highlighted with a red box. Below the table, there is a "Customize this table" link and a "JMS Servers (Filtered - More Columns Exist)" section.

Name	Persistent Store	Target	Current Server	Health
BPMJMServer	BPMJMSFileStore	soa_server1	soa_server1	OK
CCB2JMS235	CCB2JMS235	soa_server1	soa_server1	OK
<b>OUNCJMServer</b>	OUNCJMSFileStore	soa_server1	soa_server1	OK
PS6SOAJMServer	PS6SOAJMSFileStore	soa_server1	soa_server1	OK
SOAJMServer	SOAJMSFileStore	soa_server1	soa_server1	OK
UMSJMServer	UMSJMSFileStore	soa_server1	soa_server1	OK

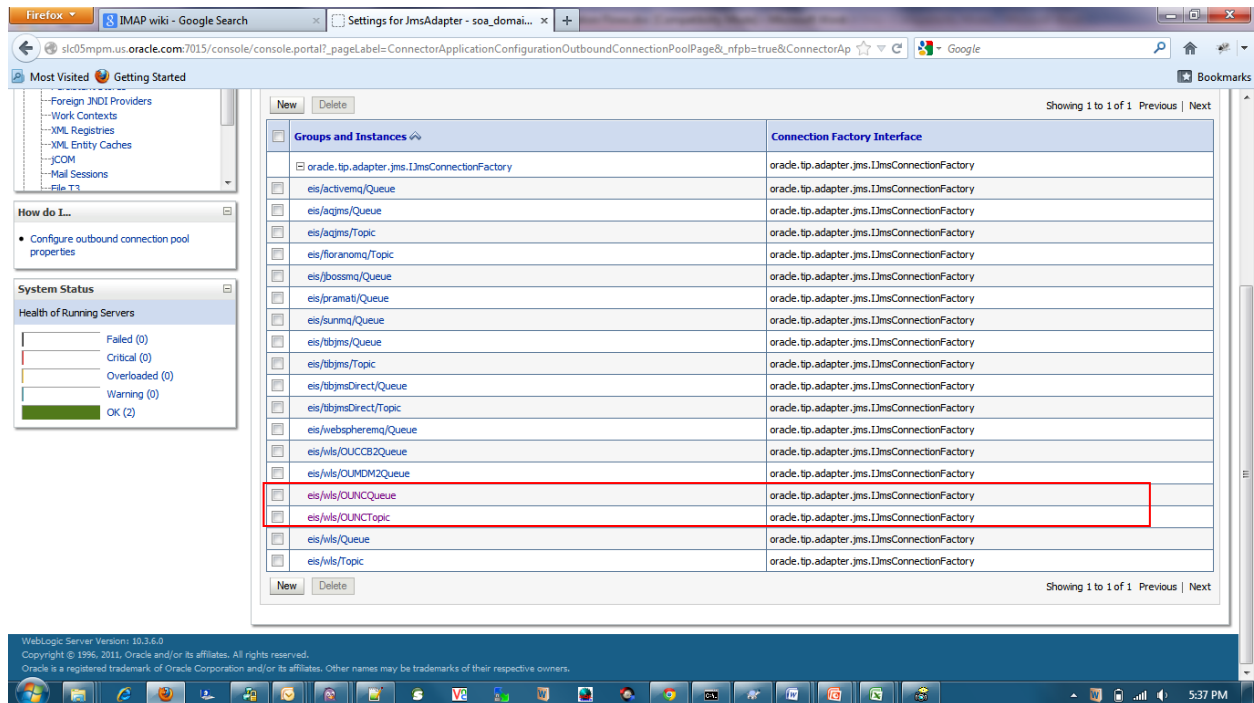
Ensure the JMS module **OUNCJMSModule** is created. Also check that the five JMS Queues and one topic shown in the following image are created.

The screenshot shows the Oracle WebLogic Server Administration Console, specifically the "Configuration" page for the **OUNCJMSModule**. The page displays general information about the JMS system module and its resources. A table titled "Summary of Resources" lists several JMS resources, including queues and topics, which are highlighted with a red box. The table has columns: Name, Type, JNDI Name, Subdeployment, and Targets.

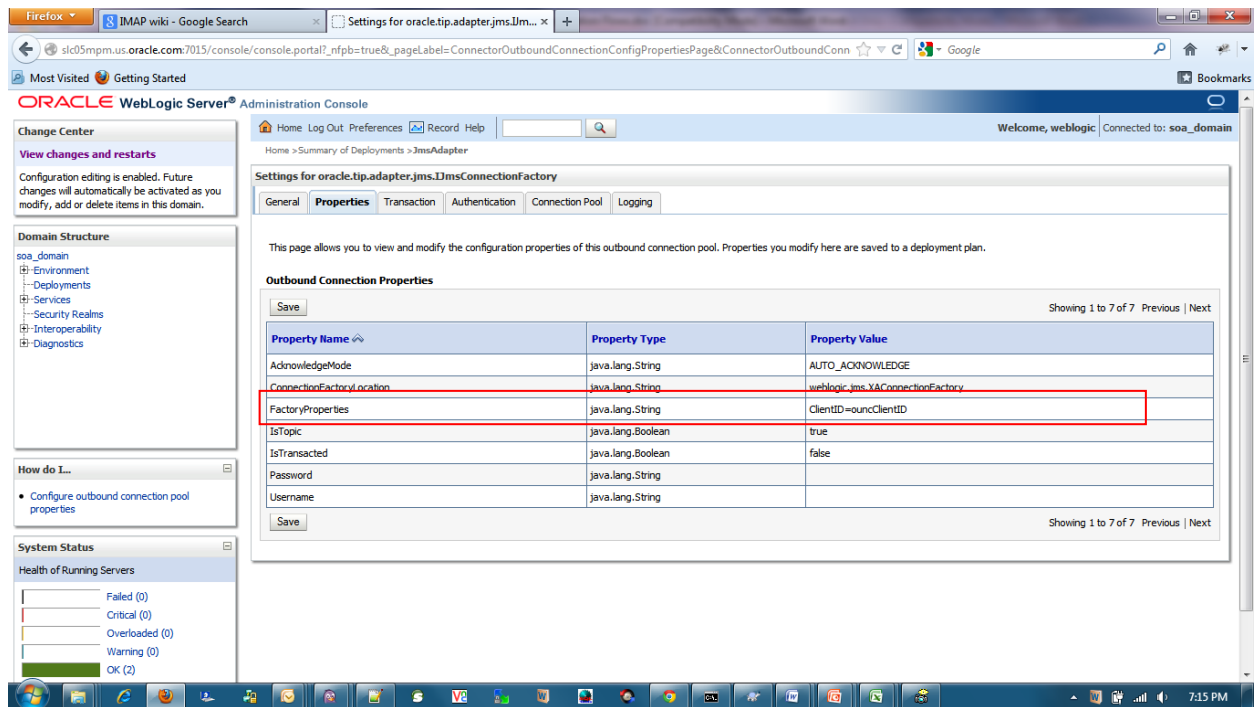
Name	Type	JNDI Name	Subdeployment	Targets
NotifDeliveryErrQueue	Queue	jms/OUNC/NotifDeliveryErrQueue	OUNCSubdeployment	OUNCJMServer
NotifDeliveryTopic	Topic	jms/OUNC/NotifDeliveryTopic	OUNCSubdeployment	OUNCJMServer
NotifInboundErrQueue	Queue	jms/OUNC/NotifInboundErrQueue	OUNCSubdeployment	OUNCJMServer
NotifInboundQueue	Queue	jms/OUNC/NotifInboundQueue	OUNCSubdeployment	OUNCJMServer
NotifPersistenceErrQueue	Queue	jms/OUNC/NotifPersistenceErrQueue	OUNCSubdeployment	OUNCJMServer
NotifPersistenceQueue	Queue	jms/OUNC/NotifPersistenceQueue	OUNCSubdeployment	OUNCJMServer

## 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.

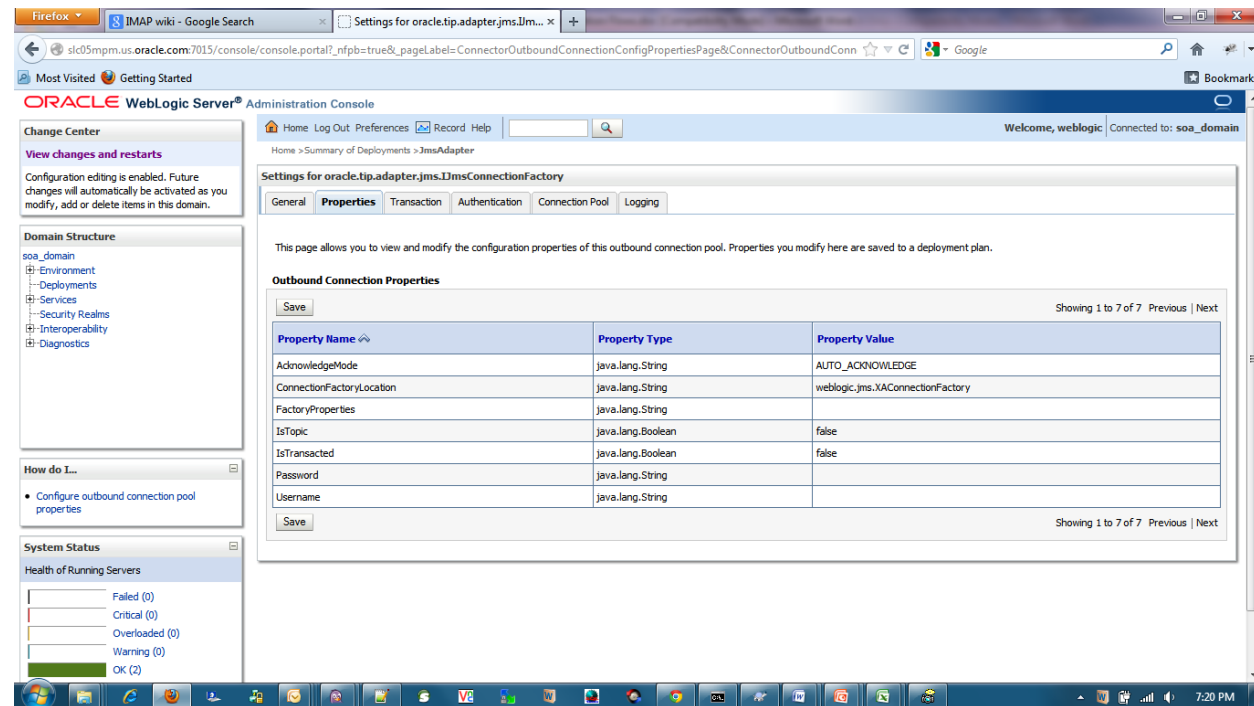


Click on the `eis/wls/OUNCTopic` to ensure all the appropriate property name and values are assigned to it.



Ensure that the **ClientId=ouncClientId** is associated in the Outbound Connection pool **FactoryProperties**.

Go back to the OutboundConnections Listed page and select **eis/wls/OUNC** and verify all the properties depicted.



## Database Outbound Connection Pool

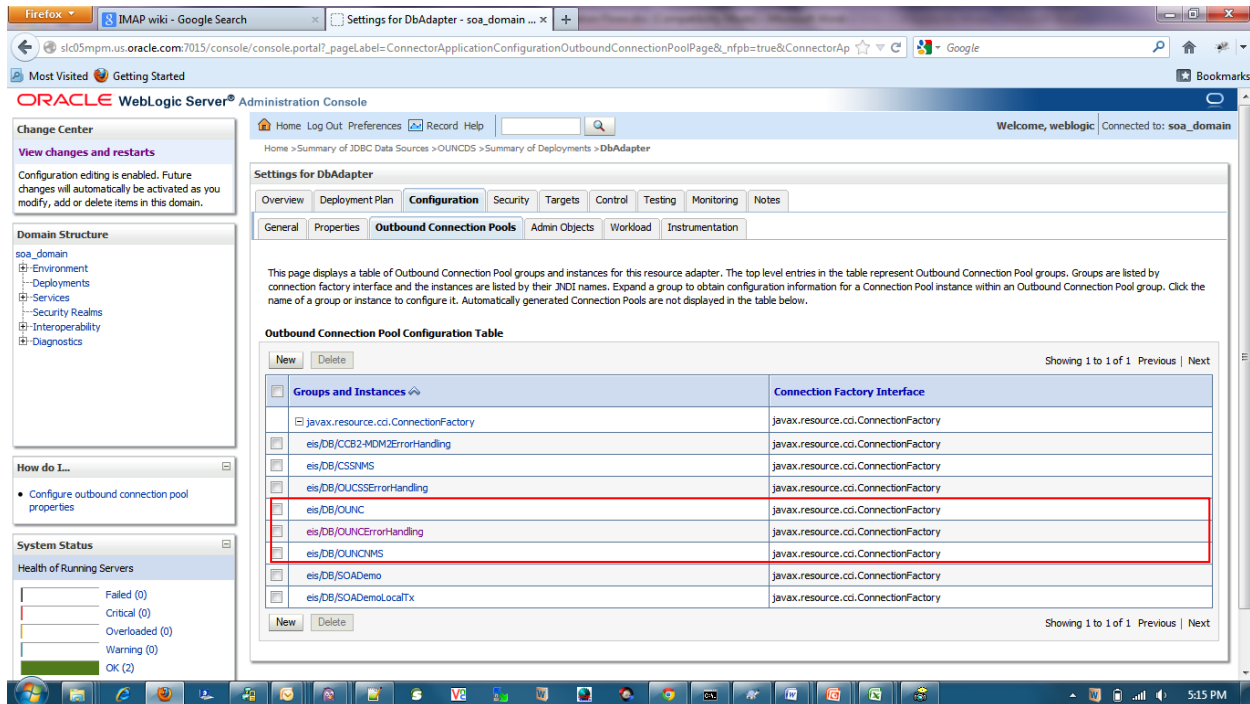
- 1 Ensure that following connection instances are created on the server:

eis/DB/OUNCErrorHandling: ErrorHandling connection instance.

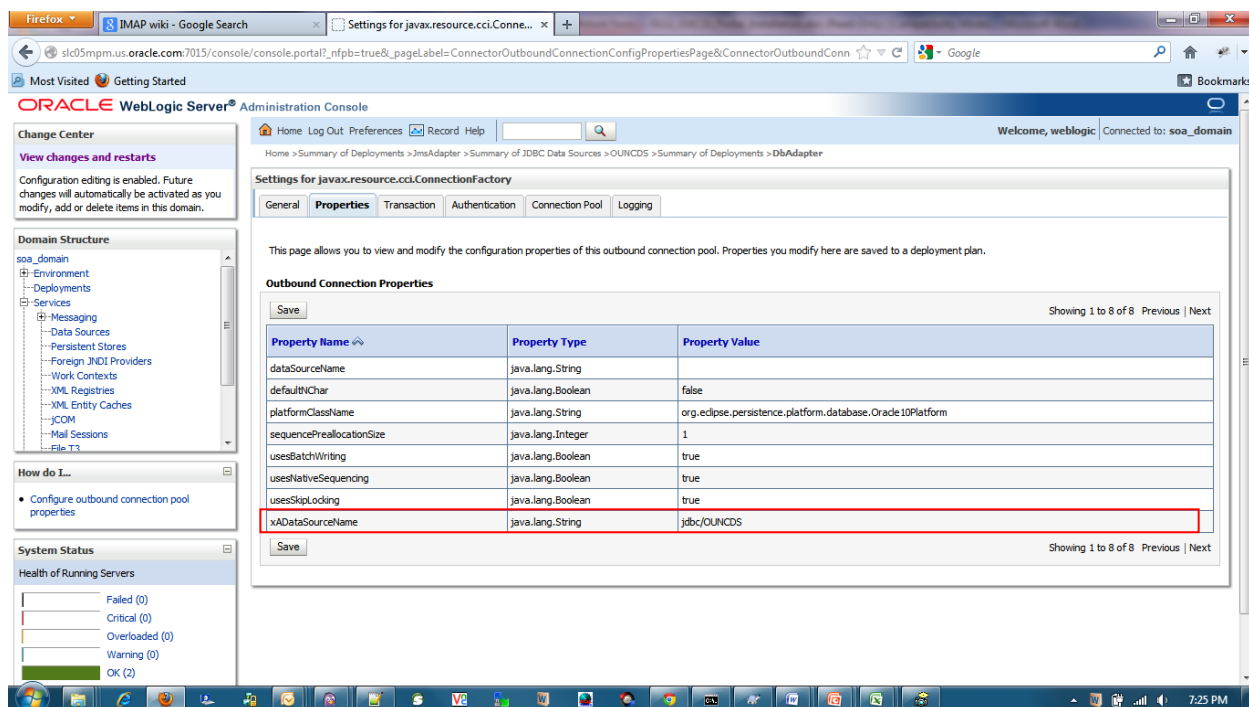
eis/DB/OUNC: Notification connection instance.

eis/DB/OUNCNMS : NMS Connection Instance.

- On the Left Pane, select the **Deployments**, click on the **DBAdapter**, select the **Configuration** tab and select the **Outbound Connection Pools** tab.
- Expand `javax.resource.cci.ConnectionFactory`.



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`).



Similarly ensure that for all other Outbound Connection instances.

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

## 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

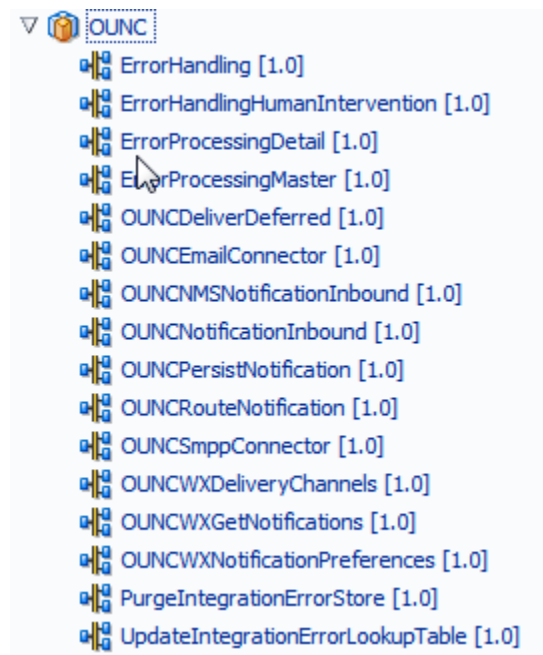
### Notes:

- 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:

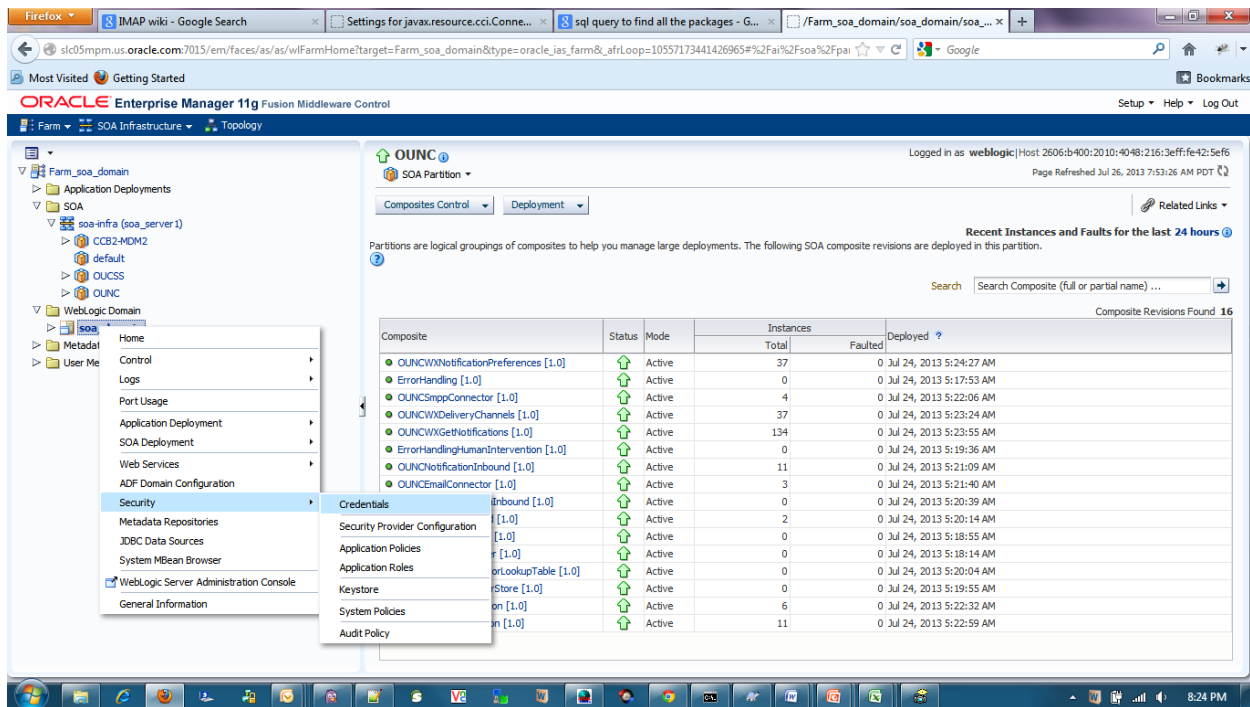
- 1 Log in to Enterprise Manager.
- 2 Expand the Farm\_soa\_domain > soa > soa-infra>OUNC partition.
- 3 Verify that these **16** composites are deployed and in active state:



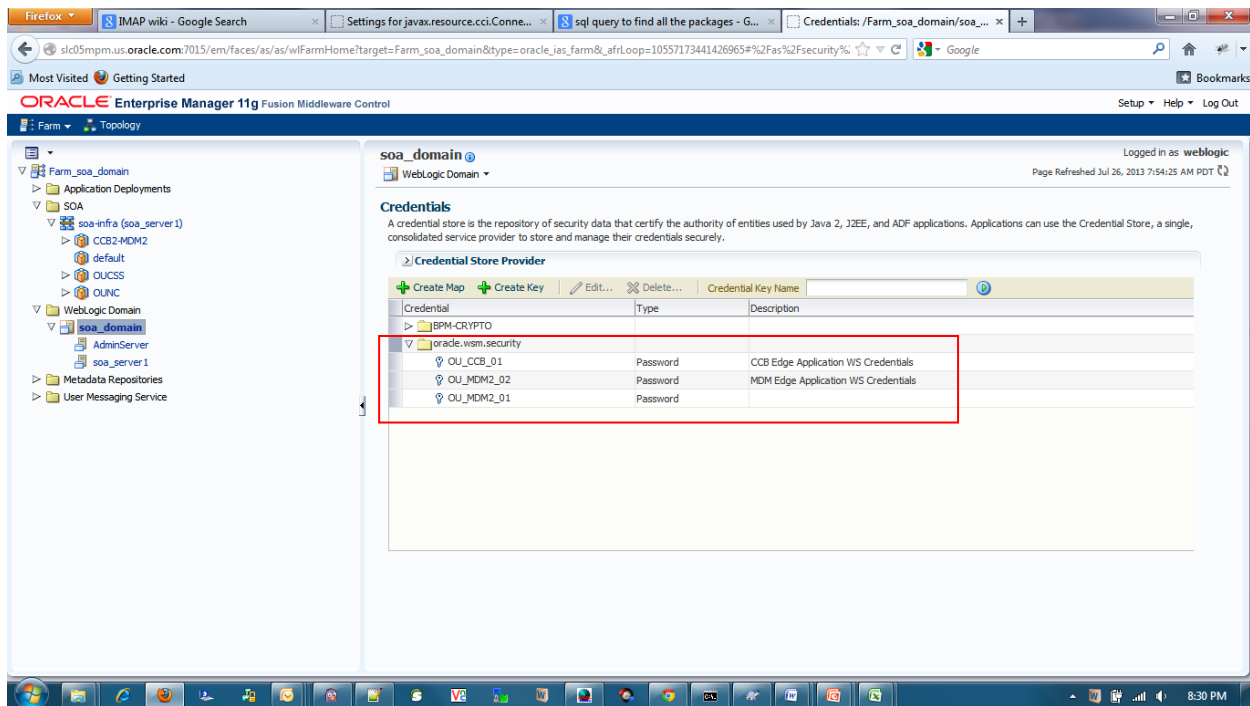
## Verify Security Credentials from EM

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**



3 Ensure that the below entry is present in the list.

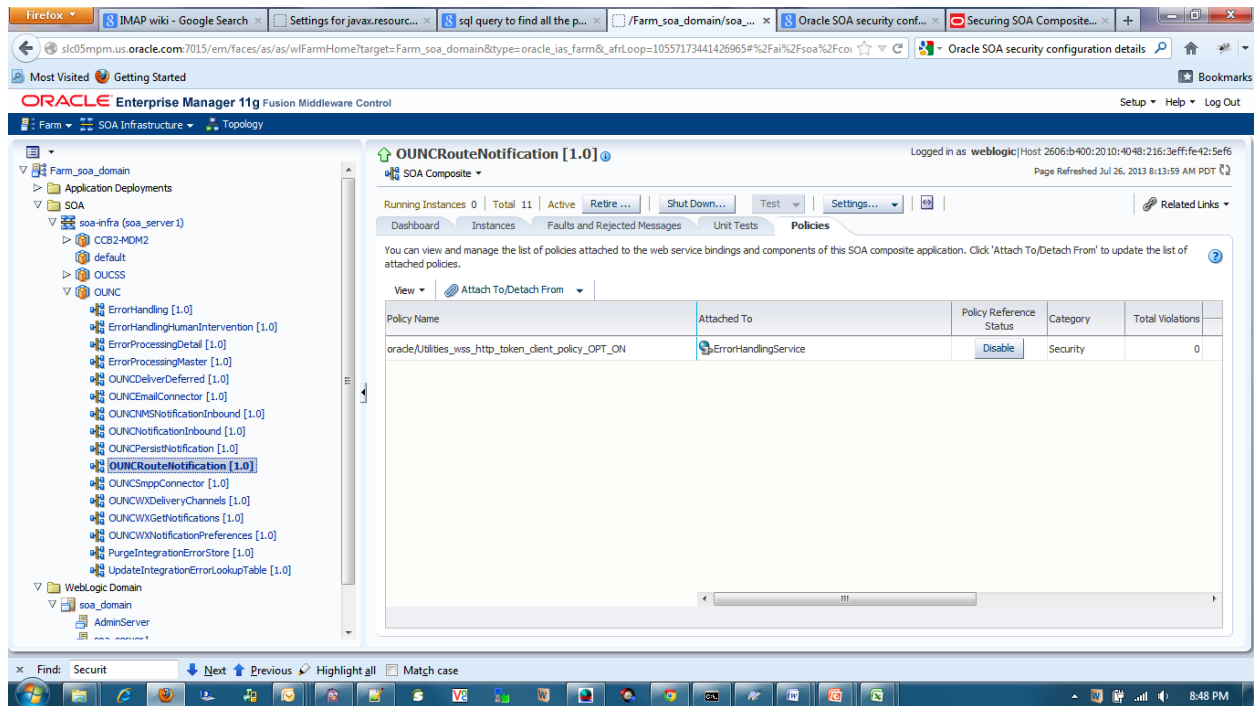


## Verify Attached Policies from EM

- 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.



# Uninstalling the OUNC Flows

- 1 Set the following environment variables:

Variable	Example
<b>Unix/Linux and Windows OS</b>	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware
WL_HOME	XXX/Middleware
PRODUCT_VERSION	2.1.0.1
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%\wlserver_10.3\server\bin\  
setWLSEnv.cmd
```

**Notes:**

- 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 $PRODUCT_HOME/bin  
ant -f UnInstallBuild.xml uninstallOUNC -  
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of Uninstall Log>  
Example: ant -f UnInstallBuild.xml uninstallOUNC -  
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l ouncuninstallrun.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin  
  
ant -f UnInstallBuild.xml uninstallOUNC -  
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of Uninstall Log>  
Example: ant -f UnInstallBuild.xml uninstallOUNC -  
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l ouncuninstallrun.log
```

- 4 Execute the following command to complete the DB uninstallation

**On UNIX/Linux:**

```
cd $PRODUCT_HOME/bin  
ant -f UnInstallBuild.xml uninstallOUNCDB -  
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l <name of Uninstall Log>  
Example: ant -f UnInstallBuild.xml uninstallOUNCDB -  
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l ouncuninstalldbrun.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin  
  
ant -f UnInstallBuild.xml uninstallOUNCDB -  
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of Uninstall Log>  
Example: ant -f UnInstallBuild.xml uninstallOUNCDB -  
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l ouncuninstalldbrun.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. If you used the alternative installation procedure (Portlets producer application), see [Uninstalling OUCSS Portlets Producer Application](#) later in this document for uninstall instructions.

**Note:** Before running the uninstall scripts, ensure that AdminServer and WC\_CustomPortal is up and running.

If the user is uninstalling all the artifacts. 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 OUCSS Portal uninstallation

- 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, 11.1.1.8.0), used to extend OUCSS Portal.

OUCSSPortal (v2.1.0.1) 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
```

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 before proceeding.

- 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
```

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 before proceeding.

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

**On Windows:**

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

**On UNIX/Linux:**

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

After running the command check RestartServerOnUnInstall.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.

- 5 To 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:

com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.8.0)

extend.oucss.portal (11.1.1, 11.1.1.\*)

OUCSSPortal (v2.1.0.1) (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.

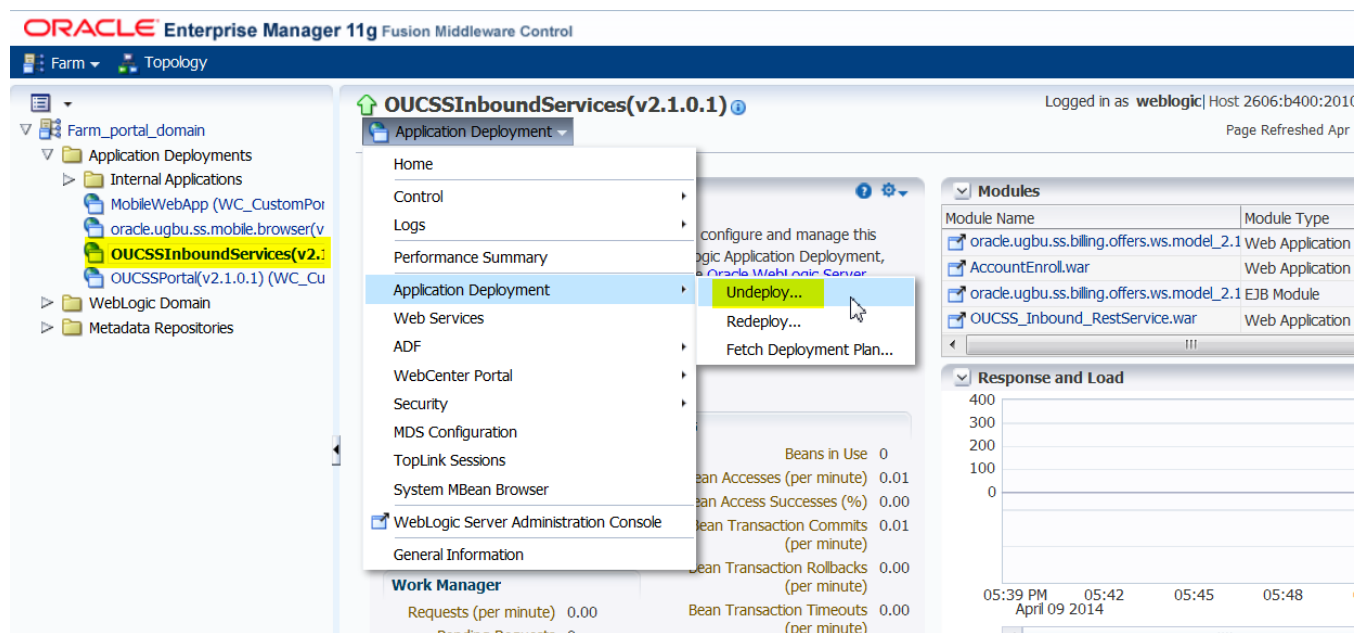
## UnInstall OUCSS Inbound Services

The following procedure describes how to uninstall the OUCSS Inbound Services installation when OUCSS Portal is still installed as well as when OUCSS Portal is uninstalled.

### OUCSS Portal is still installed

When OUCSS Portal is installed and on the same managed server, then UnInstall OUCSS Inbound Services by undeploying using EM.

- 1 Login to Oracle Enterprise Manager as WLS Admin.
- 2 Click on OUCSSInboundServices (v2.1.0.1) from Application Deployments.
- 3 From the Application Deployment menu, select Application Deployment -> Undeploy.



### 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 (v2.1.0.1) 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
```

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 before proceeding.

- 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:

com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.8.0)

com.oracle.ugbu.commercial.ss.lib (11.1.1, 11.1.1.8.0)

extend.oucss.portal (11.1.1, 11.1.1.8.0)

com.oracle.ugbu.ss.rest.lib (11.1.1, 11.1.1.8.0)

jax-rs(1.1,1.9)

OUCSSInboundServices (v2.1.0.1) (enterprise application)

**A** Choose **Services > Data Sources** and verify that the **OUCSSDS** data source is no longer present.

**B** Choose **Services > Mail Sessions**. Verify that the **OUCSS** mail session is no longer present.

# Chapter 7

---

## Upgrading OUCSS

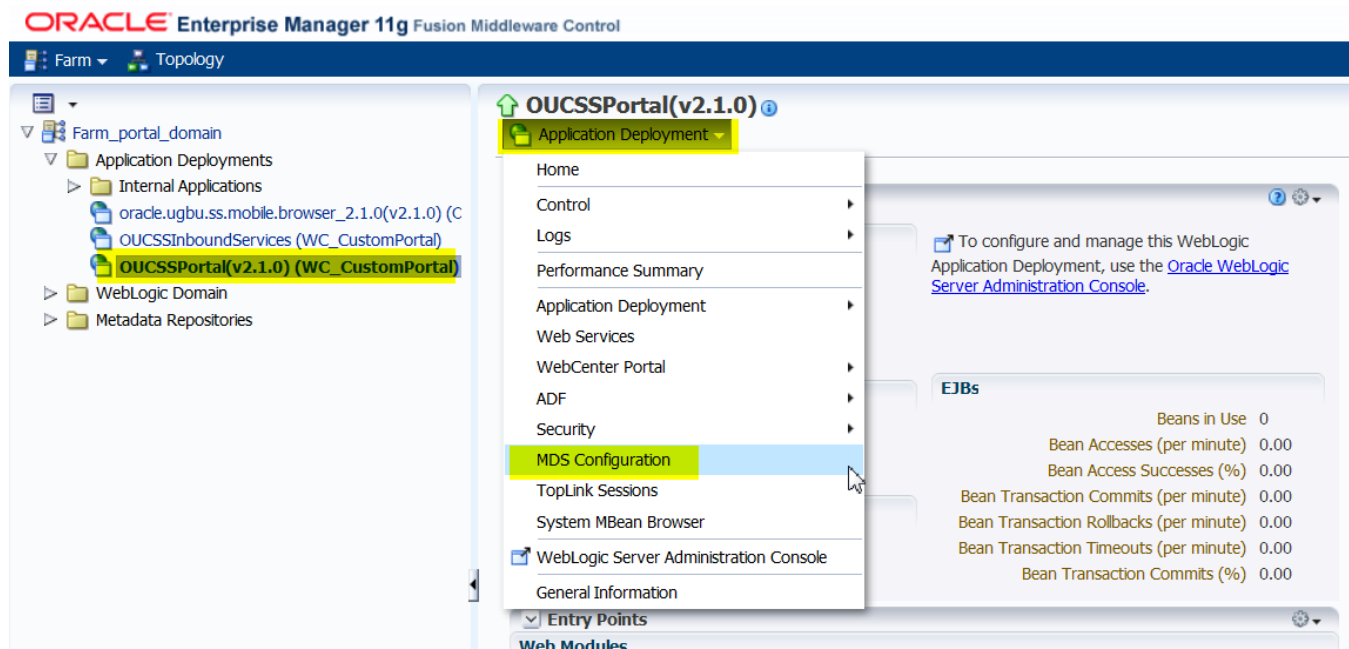
This procedure describes the steps to upgrade from previous version of OUCSS Portal (2.0.1 or 2.1.0) to version 2.1.0.1.

### Pre-Upgrade Steps

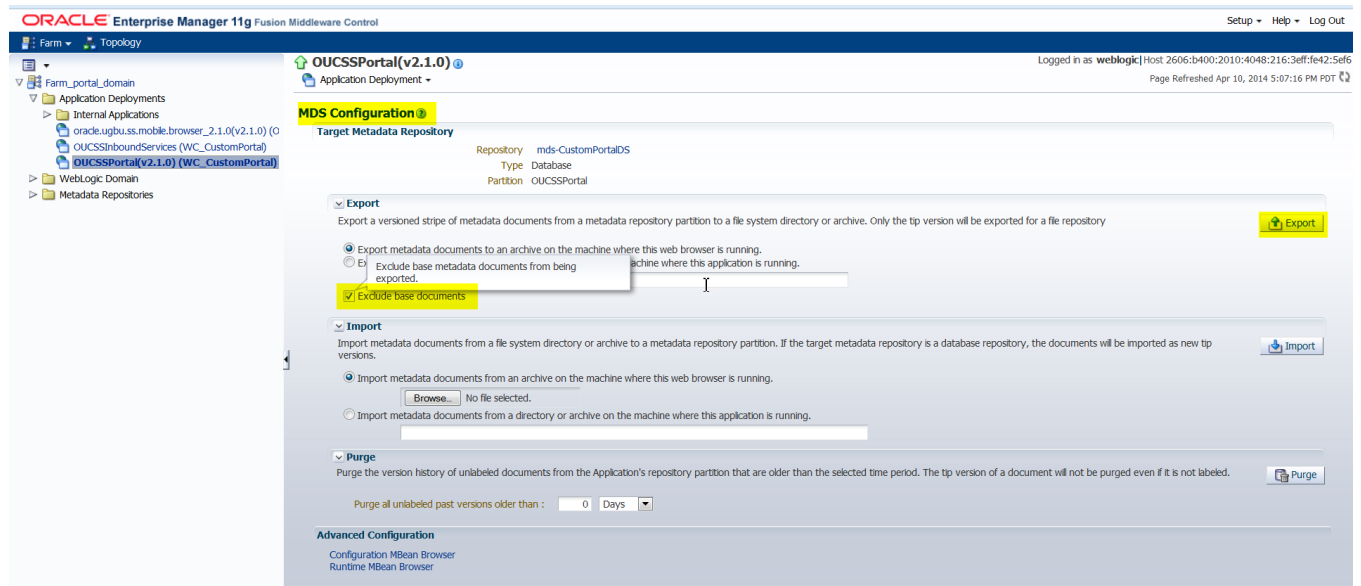
- 1 Take a backup of existing OUCSS DB schema.
- 2 Export MDS metadata of the existing OUCSS Portal.

Login to Oracle Enterprise Manager (EM) of existing instance and click on OUCSSPortal.

From the Application Deployment menu, click on MDS Configuration.



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



- 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 2.1.0.1 package. Perform Steps 1 – 7 to setup environment as described in Installing OUCSS Portal section of this document to setup the environment for 2.1.0.1 upgrade.



# Upgrade Steps

[Upgrade OUCSS DB Schema](#) to version 2.1.0.1

[Install OUCSS Portal v2.1.0.1](#) on a new 11.1.1.8.0 WebCenter Domain.

[Install extend.oucss.portal.war](#) to 2.1.0.1 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 2.1.0.1 domain. If you are configured the 2.1.0.1 domain to use same LDAP as previous version, then no action is needed.

## Upgrade 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 2.1.0.1

### 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
```

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 Optional: If OUCSS Mobile Browser application is also installed and uses configured to use the same OUCSS schema, then run the following command to upgrade Mobile related data

### On Windows:

```
ant -f UpgradeInstallBuild.xml DBUpgradeMobile -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l DBUpgradeMobile.log
```

### On UNIX/Linux:

```
ant -f UpgradeInstallBuild.xml DBUpgradeMobile -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l DBUpgradeMobile.log
```

After running the command check DBUpgradeMobile.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.

- 4 Verify the schema using the steps described in [Verify Schema Table](#) section.
- 5 Verify that all the users in SS\_USER table and users access to accounts in SS\_USER\_LOB\_ACCESS\_ROLE table is accurate.

## Install OUCSS Portal v2.1.0.1

- 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 v2.1.0.1 by following the [Install Steps](#) section of this document.

## Install extend.oucss.portal.war

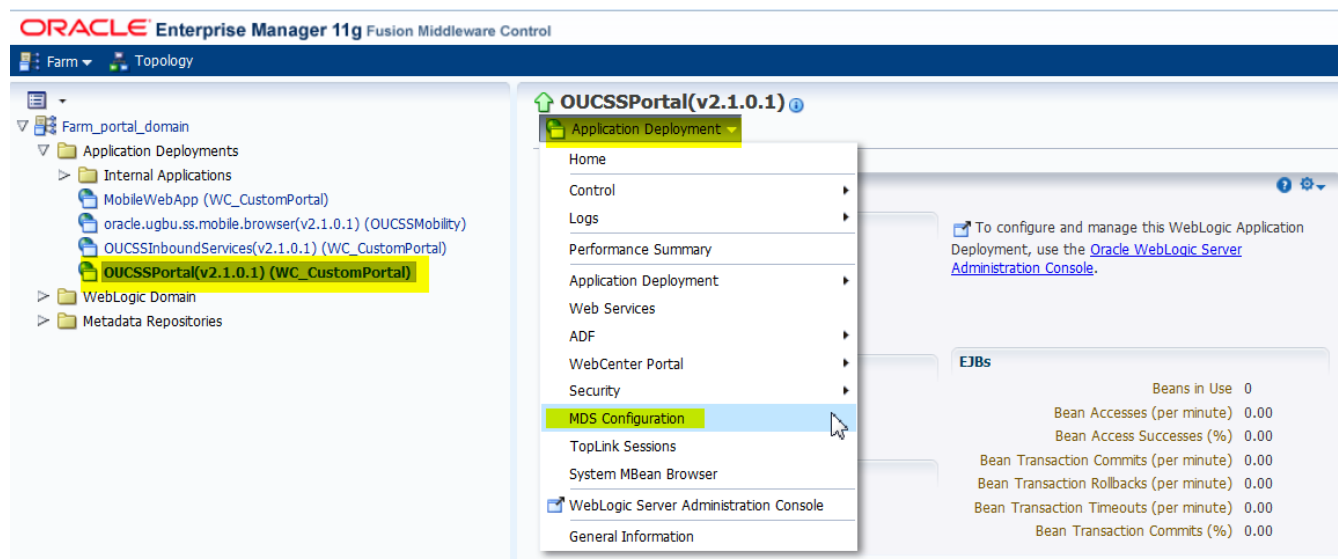
The extend.oucss.portal.war with custom implementation is required to be reinstalled to the new OUCSS 2.1.0.1 instance. The default implementation version of extend.ocuss.portal shared library in 2.1.0.1 is updated to 11.1.1.8.0. To activate the custom extend.oucss.portal.war the implementation version should be updated to 11.1.1.8.1.

- 1 Open the extend.oucss.portal project in JDev.
- 2 Update the implementation-version in MANIFEST.MF to 11.1.1.8.1.
- 3 Install the extend.oucss.portal shared library to managed server running OUCSS Portal v2.1.0.1.
- 4 Source control extend.oucss.portal.war and the changes.

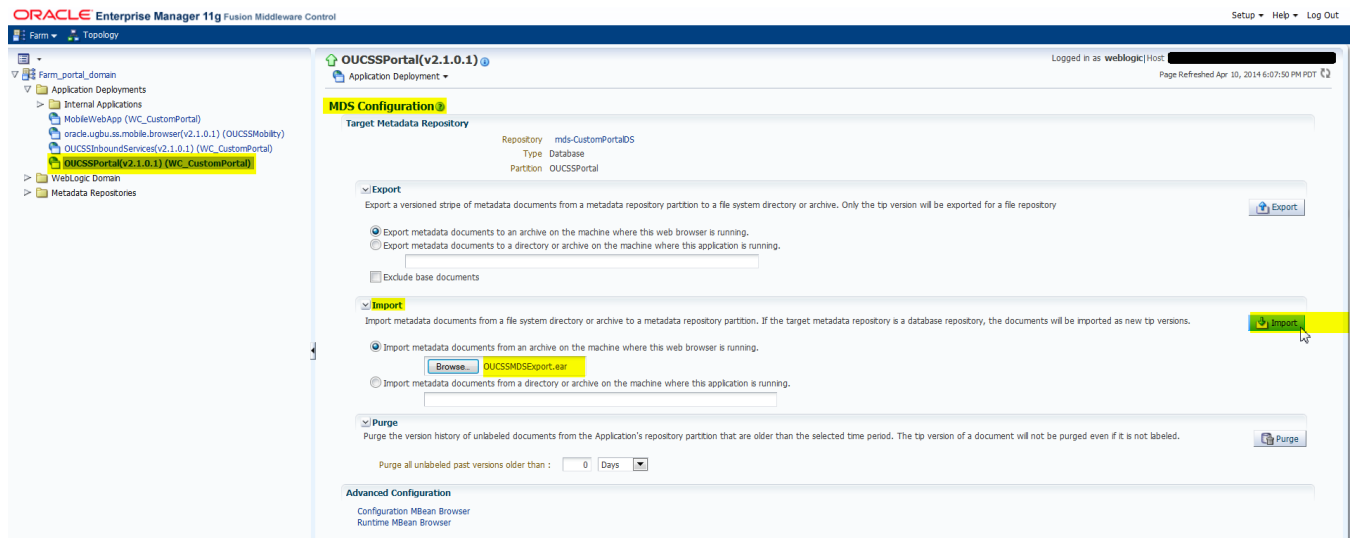
## Import MDS Customizations

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

- 1 Login to EM of 2.1.0.1 domain and click on OUCSSPortal v2.1.0.1.
- 2 Select MDS Configuration from Application Deployments menu.



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



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

## Import Portal Resources

Import the Portal resources exported from previous version to activate the custom Page Template, Navigation Model, Resource Catalog etc in the 2.1.0.1 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
```

- Connect as Admin Server of 2.1.0.1 domain as WLS Admin.
- Run one of the following commands for each resourceType to be imported to the new instance.

```
importWebCenterResource (appName='OUCSSPortal#v2.1.0.1', server='<<PortalManagedServer>>',
fileName='<<ArchiveFolder>>/<<ArchiveName>>.ear', resourceType='<<resourceType>>')
```

For example

- To Import Navigation Model archive run

```
importWebCenterResource (appName='OUCSSPortal#v2.1.0.1', server='',
fileName='<<ArchiveFolder>>/<<NavigationModelArchive>>.ear', resourceType='navigation')
```

- To Import Page Template archive run

```
importWebCenterResource (appName='OUCSSPortal#v2.1.0.1', server='WC_CustomPortal',
fileName='<<ArchiveFolder>>/<<PageTemplateArchive>>.ear', resourceType='pageTemplate')
```

- To Import Resource Catalog archive run

```
importWebCenterResource (appName='OUCSSPortal#v2.1.0.1', server='WC_CustomPortal',
fileName='<<ArchiveFolder>>/<<ResourceCatalogArchive>>.ear',
resourceType='resourceCatalog')
```

**Note:** Refer [http://docs.oracle.com/cd/E23943\\_01/web.1111/e13813/custom\\_webcenter\\_admin.htm#WLSTC10670](http://docs.oracle.com/cd/E23943_01/web.1111/e13813/custom_webcenter_admin.htm#WLSTC10670) 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 Previous Version and Install the 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 [Installing CSS BPEL flows –Uninstalling Direct Integration](#) 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 defined 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. [Refer to Chapter 3 Installing CSS BPEL flows](#) for install details.

The new SOA and MDS partition name should be defined in the Install Properties File. Refer to [Appendix E](#). 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:
  - Backup the existing PRODUCT\_HOME directories.  
Example: PRODUCT\_HOME=/slot/oracle/OUNC where you unzipped OUNC.zip  
Make sure the existing configuration properties file is backup.
- 2 Uninstall the existing version of OUNC BPEL flows. Refer to [Chapter 4 Installing Oracle Utilities Notification Flows – Uninstalling the OUNC Flows section](#) 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 [Chapter 4 Installing Oracle Utilities Notification Flows - Installing the Integration section](#) for details. **Replace** Step 8 for DB Installation with the following.

Note: Do **not** execute the Step 8 mention in the installation section as it will wipe out your existing transactional data.

Execute the following command instead 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 <name of install log>
Example: ant -f InstallBuild.xml createDBNotificationPackage -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l ouncinstalldbrun.log
```

**On Windows:**

```
cd %PRODUCT_HOME%/bin

ant -f InstallBuild.xml createDBNotificationPackage -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l <name of install log>
Example: ant -f InstallBuild.xml createDBNotificationPackage -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l ouncinstalldbrun.log
```



# Appendix A

---

## Installing OUCSS Components as Portlets

This section describes an alternative portlets producer application approach of installing and uninstalling OUCSS for users implementing a non-WebCenter-based portal solution or for users who may want to integrate OUCSS portlets into an existing portal application.

**Note:** The default OUCSS Portal installation approach is described in [Chapter 2](#). For uninstall steps of the default installation method, see [Chapter 4](#).

### Pre-Installation Tasks

- 1 Run the 11.1.1.8.0 RCU and create a MDS schema (WebCenter, Activities, Portlet and MDS) in the database for the Oracle Utilities Customer Self Service application.

**Note:** Before creating the MDS schema, check that a minimum of 3GB is available to accommodate data files and that the `autoextend` setting is enabled for your database.

- 2 Set up the PortletProducer Managed Server as described in the document *Installing a Managed Server for Custom Portals Whitepaper*, available for download in the Oracle Utilities Customer Self Service section of the [Oracle Utilities Documentation](#) area on the Oracle Technology Network (OTN) web site (<http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html>).
- 3 Ensure that Oracle AdminServer and WC\_Portlet servers are up and running.

### Deploying OUCSS Portlets Producer

- 1 Perform Steps 1 to 9 to setup environment as described in [Installing OUCSS Portal](#) section of this document to setup the environment and OUCSS DB Schema.

- 2 Verify that /oucssInstall/oucssApplication/oucssPortletProducer properties in InstallProperties.xml are configured as per the environment and the deploy property is set to true.
- 3 Run the deployment/installation command to install OUCSS artifacts (CredentialMap, Mail Session and OUCSS Portlet Producer application).

**On Windows:**

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

**On UNIX/Linux:**

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

After running the command check `InstallPortletProducer.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.

## Post-Installation Steps

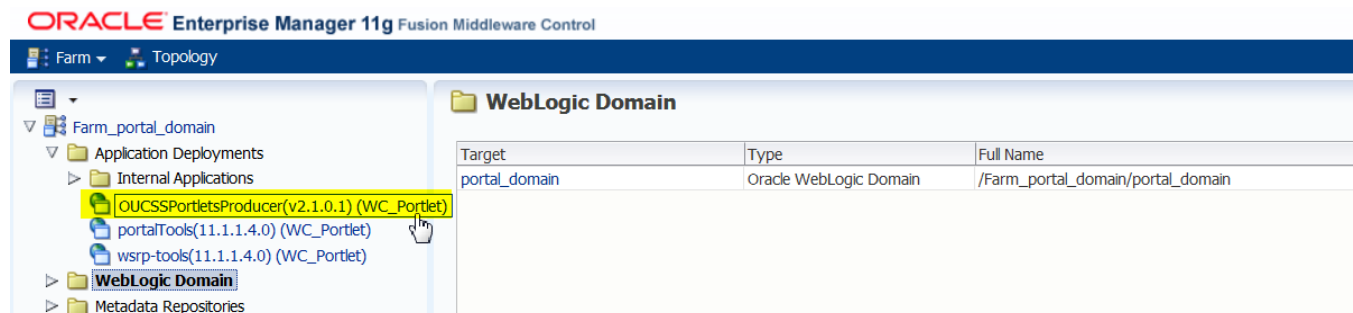
### Post-Installation Checklist

Perform the post install checklist verification as described in the [Post-Installation Checklist](#) section of Chapter 2 of this document.

Note: OUCSSPortal (v2.1.0.1) will not be in the list of deployments when verifying deployments.

### Verify Deployments

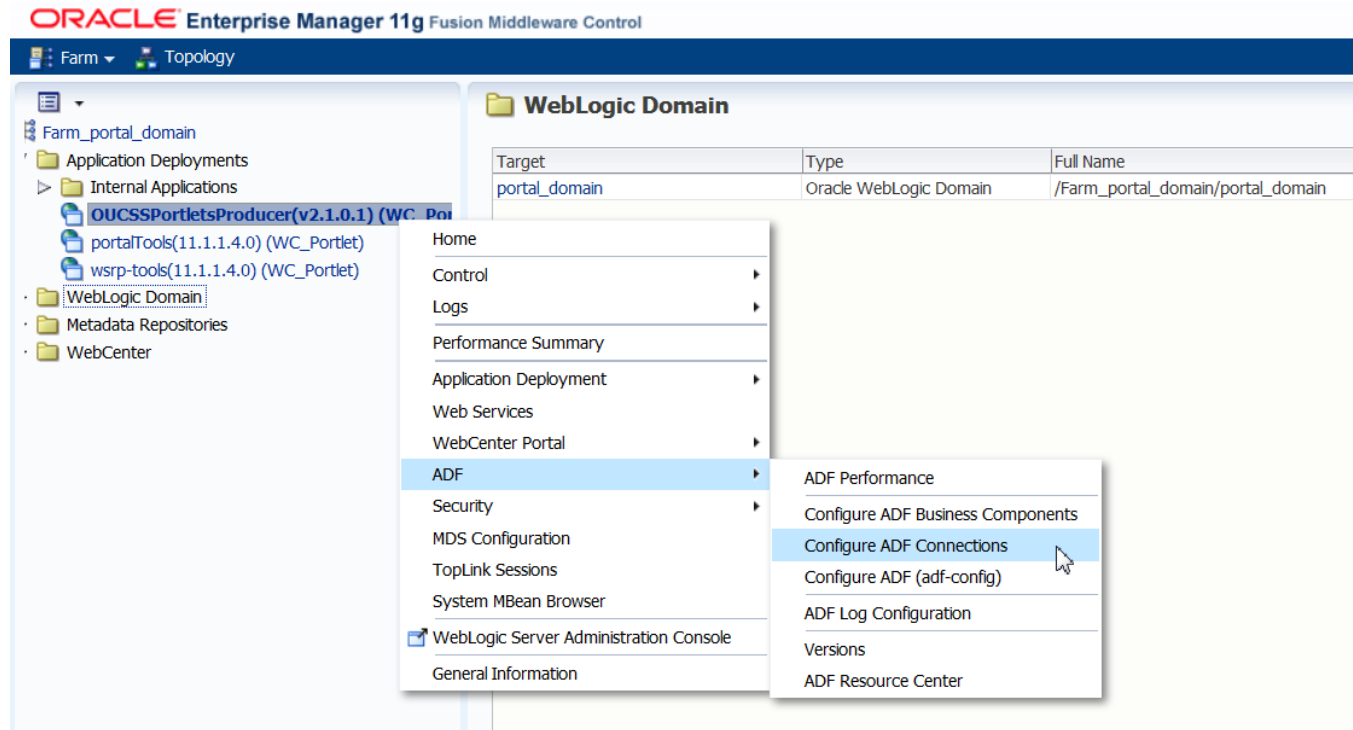
- 1 Log in into the Oracle Enterprise Manager console at `http://<WLSAdminHost>:<WLSAdminServerPort>/em` as WLS Admin.
- 2 Expand **Application Deployments** and verify the presence of **OUCSSPortletsProducer (v2.1.0.1)**.



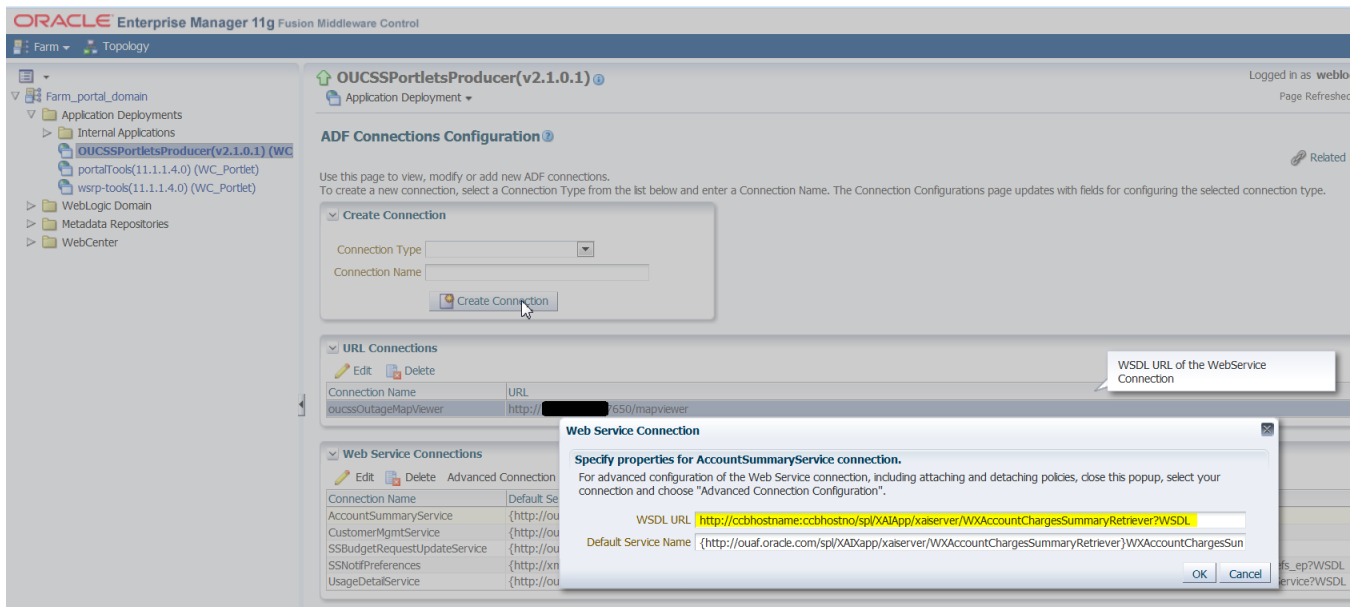
### Verify Connections

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 Click **Application Deployments**, right click on OUCSSPortletsProducer (v2.1.0.1) and select **ADF > Configure ADF Connections** from the context menu.



- 3 Verify under **WebService Connections** that each connection is correctly configured with corresponding CCB or SOA Integration WSDL URL.
- 4 Click on any connection name (e.g., **AccountSummaryService**), click **Edit**, select **WSDL URL**, and open the connection in your browser. If the WSDL URL is correctly formed (e.g., <http://ccbhostname:ccbportno/spl/XAIApp/xaiserver/WXAccountChargesSummaryRetriever?WSDL>), then tokenization has been completed correctly.



- 5 Repeat this verification procedure for all remaining connections.

## Securing Portlets Producer WSDL

OUCSS Portlets Producer application is secured using ADF Security Framework. In order to consume the Portlets exposed by this application over WSRP, the WSDL and the client/consumer application need to be configured to use SAML token to exchange information securely. The following steps describe securing of OUCSS Portlets Producer WSDL using OWSM.

## Securing Producer

- 1 Create the Java Key Store using steps described in [Create Security Key Store](#) section of this document.
- 2 Verify if the CSF-Keys keysotre-csf-key, sign-csf-key and enc-csf-key already exists. If not, connect to WLST and run the following commands to create csf-key. Update the commands with suitable user and password to match the setup.

```
createCred (map='oracle.wsm.security', key='keystore-csf-key', user='owsm',
password='<<password>>')
createCred (map='oracle.wsm.security', key='sign-csf-key', user='orakey',
password='<<password>>')
createCred (map='oracle.wsm.security', key='enc-csf-key', user='orakey',
password='<<password>>')
```

- 3 Login to Enterprise Manager and select the OUCSSPortletProducer application.
- 4 From the Application Deployment menu, select WebServices, then select “WSRP\_v2\_Markup\_Service”.
- 5 Attach the “wss10\_saml\_token\_with\_message\_protection\_service\_policy”. After attaching the policy update the keys from the jks and CSF-Keys created above.
- 6 Restart and the Producer WSDL is now secured.

## Securing Consumer

To consume Portlets from secured Producer, the Consumer application needs to attach client policy to the registered producer WSDL. Following steps describe securing producer WSDL on the client/consumer application

- 1 Register the secured OUCSS Portlet Producer WSDL application with the consumer application.
- 2 In the security section of the registration wizard, select “wss10\_saml\_token\_with\_message\_protection\_client\_policy”.
- 3 Choose Default User: OUCSSPublicUser

**Note:** OUCSSPublicUser is a seeded user added in Portlet Producer Application to allow access to Public portlets such as register, forget password, etc.

- 4 Copy the default-keystore.jks (created above) into <<consumer\_domain\_home>>/config/fmwconfig folder.
- 5 Connect to WLST of the consumer domain and run the following to create csf-key. Update the user and password depending on the jks used and matching Producer CSF Keys.

```
createCred(map='oracle.wsm.security', key='keystore-csf-key', user='owsm',
password='<<password>>')
createCred(map='oracle.wsm.security', key='sign-csf-key', user='orakey',
password='<<password>>')
createCred(map='oracle.wsm.security', key='enc-csf-key', user='orakey',
password='<<password>>')
```

- 6 Restart Consumer App and test the portlets.

## Uninstalling OUCSS Portlets Producer Application

**Note:** This procedure is required only if you deployed OUCSS Portlet Producer solution as described in this Appendix. If you chose to install default OUCSS Portal described in Chapter 2, see [Chapter 4](#) for uninstall steps.

- 1 Perform Steps 3 to 9 to setup environment as described in [Installing OUCSS Portal](#) section of this document.
- 2 To Uninstall/Remove OUCSS artifacts (OUCSS Schema, Data Source, CredentialMap, Mail Session) run the following command from the <PRODUCT\_HOME>/bin directory:

**Note:** The same *InstallProperties.xml* file (<PRODUCT\_HOME>/config/InstallProperties.xml) that was used for installation should be used in this step. Do not update any values in *InstallProperties.xml* during undeployment; the file should remain same as it was during installation.

### On Windows:

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

### On UNIX/Linux:

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

After running the command check *UnInstallPortletProducer.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.

- 3 Remove OUCSS seeded **Users and Groups** from the WebLogic Embedded LDAP by running the following command from the <PRODUCT\_HOME>/bin directory:

**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.

- 4 Log in to the Oracle Enterprise Manager or WLS Admin Console and check that the OUCSS deployments have been removed, and that all OUCSS data sources, mds, database tables, and database user data have been deleted.

# Appendix B

---

## 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. MapViewer can be installed in two different ways, using pre-install or installing on WebLogic Server.

### 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 9i or later).
- 3 Oracle Client (Release 9i 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](http://docs.oracle.com/cd/E28280_01/web.1111/e10145/vis_start.htm#i1006838)).

## Pre-Installed Oracle MapViewer (OC4J Server)

MapViewer also comes with a Quick Start Kit that has pre-installed MapViewer on OC4J server.

- 1 Download the Quick Start Kit Oracle MapViewer from the Oracle Technology Network (OTN) at <http://www.oracle.com/technetwork/middleware/mapviewer/downloads/index.html>
- 2 Follow the steps to use the Oracle Quick Start Kit in Chapter 1.4 of the MapViewer User Guide ([http://docs.oracle.com/cd/E28280\\_01/web.1111/e10145/vis\\_start.htm#i1006838](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.
- 2 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
- 3 Configure MapViewer to refer to the above map data source. You can configure MapViewer with one or more data sources.
- 4 To configure a Data Source, login to *http://<<host>>:<<port>>/mapviewer/mvlogon.jsp* with WebLogic domain admin credentials.
- 5 Click on “Configuration” link on the left menu.
- 6 Scroll to the bottom of the Text-Area on the right and add the data source.
- 7 Prefix ‘!’ to the password to allow MapViewer to encode it when the data source is loaded first.
- 8 MapViewer configuration also allows configuring other parameters for fine-tuning. Use the same screen to change the configuration as it suits the requirements.
- 9 After configuring Data and Data Source, use Oracle Map Builder (can be downloaded from OTN), to configure BASE\_MAPS, TILES, STYLES, THEMES that are required to render maps.



## Creating 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>
</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 [Install OUCSS Portal](#) for more information on System Configuration properties.
- 4 Click **Save** and restart the managed server.

**Note:**

Refer the MapViewer User Guide [http://docs.oracle.com/cd/E28280\\_01/web.1111/e10145/toc.htm](http://docs.oracle.com/cd/E28280_01/web.1111/e10145/toc.htm) for additional information about MapViewer and its configuration.

# Appendix C

---

## Mobile Application Deployment

### Mobile Application Deployment Prerequisites

The following software is required for Mobile Application deployment:

- OUCSS 2.1.0.1 Base application libraires (com.oracle.ugbu.ss.lib).

### Pre-Installation Tasks

- If OUCSS Mobile application is required to installed with a dedicated MDS, run the RCU provided by the Oracle WebCenter installation to create a MDS schema in the database for the Oracle Utilities Customer Self Service Mobile application.
- The code snippet in the InstallProperties.xml file should look like the following, including a reference to the CSSMB\_MDS schema created using the RCU utility:

```
<mdsConfig>
  <repositoryName>mds-CustomPortalDS</repositoryName>
  <partitionName></partitionName>
  <repositoryType>DB</repositoryType>
  <jndi>jdbc/mds/CustomPortalDS</jndi>
  <database>
    <userName></userName>
    <password></password>
    <hostName></hostName>
    <portNumber></portNumber>
    <sid></sid>
```

```

</database>
  </mdsConfig>
<contextRoots>
  <MobileBrowser><contextRoot>OUCSSMobileB</contextRoot></MobileBrowser>
</contextRoots>
...

```

## Installing the OUCSS Mobile Application

- 1 If OUCSS Portal/Portlet application is deployed, then perform Steps 3 – 6 to setup environment as described in [Installing OUCSS Portal](#) section of this document else, perform steps 1 – 6.
- 2 Open the Administration Console of your WebLogic domain.
  - A In the left pane of the Console, select Environment > Servers.
  - B In the Configuration tab Click New button to Install New Managed Server.
  - C Provide the Server Name as "OUCSSMobility". The port number should be the same as that provided for the deployTarget/portNumber.
  - D If you wish this server to be standalone server select the option as stand-alone server.
  - E Confirm your changes by clicking the Finish button.
  - F If you wish the server to be a Cluster server go through the additional information at
  - G Choose your enterprise topology and perform installation of WebCenter in a clustered environment per Oracle WebCenter installation guidelines ([http://docs.oracle.com/cd/E21764\\_01/core.1111/e12037/toc.htm](http://docs.oracle.com/cd/E21764_01/core.1111/e12037/toc.htm)).
  - H 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 [Oracle Utilities Documentation](#) area on the Oracle Technology Network (OTN) web site (<http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html>).
- 3 Apply the Java Required Files (JRF) template:
  - A Log in into the Enterprise Manager console `http://<WLSAdminHost>:<WLSAdminServerPort>/em` with `wlsadminuser/wlspasswd`.
  - B Select WebLogic\_Domain, then `<webcenter_domainname>`, and expand OUCSSMobility.  
 Note that key Enterprise Manager features such as monitoring, security, and logging will become available after the JRF template is enabled and the server is restarted. Also note that the JRF template includes application deployments, startup and shutdown classes, as well as changes to the system classpath.
  - C Click Apply JRF Template.
  - D Click **OK** in the confirmation dialog.

**Note:** Some information provided by the JRF template may not be immediately available after the server restart. Use the Enterprise Manager Refresh button (next to the Page Refreshed timestamp) to display the most recent information.
- 4 Restart the OUCSSMobility server.
- 5 To update OUCSS Mobile DB tables and populate with required values Run the following command

### On Windows:

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

### On UNIX/Linux:

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

- 6 Install the Mobile Application with the following command:

**On Windows:**

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

**On UNIX/Linux**

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

- 7 After running the command, check the installOUCSSMobile.log file 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.

## Configuring OUCSS Mob App Deployment Properties

Mobile Application deployment requires that you update the following properties in `PRODUCT_HOME /config/ InstallProperties.xml`.

Property	Description	Example
oucssMobile		
deploy		
applicationName	Name of the mobile module no need to update this value	Not applicable
adminServer	AdminServer tag, no need to update this value	webcenter.test.com
hostname	Host name of the server where admin server is installed	7001
portnumber	Port number of the admin server	AdminServer
servername	Servername to be used.	weblogic
domainName	Domain name where the Mobility ManagedServer is hosted	
domainLocation	Physical absolute location of the domain in the machine	C:/Middleware/portal_domain
realmName	Realm name to be used	Myrealm
security		
Username	Username used to log in as an Admin server	weblogic
Password	Password used to log in as an Admin server	weblogic#1
deployTarget		
clusterOrServer		
clusterOrServerName		
hostname	Hostname of the managed server	webcenter.test.com
portnumber	Port no of the managed server	8889

database	
createDB	Flag to determine whether to create DB
hostName	Database server name
portNumber	Database port number
sid	Database SID
sysdba	
userName	DB Administrator User Name for creating the Schemas
password	DB Administrator Password for creating the Schemas
Schema	
userName	Username for DB Schema that is going to created
password	Password for DB Schema that is going to created
createDataSource	Optional Flag.
dataSourceName	Datasource Name that is used for creating in the WebLogic domain
jndi	Jndi name. Not used as jndi name is derived from the above dataSourceName element.
installedVersion	Product Installed version
mdsConfig	
repositoryName	Repository Name that is provided during the Installation of MDS through RCU
partitionName	Configure the partition Name that it is attached to the application
repositoryType	File type or DB by default its being configured to DB.
jndi	JNDI name is derived from the repository Name
Database	
userName	Database username for the MDS schema
password	Database password for the MDS schema
hostName	Host name where MDS DB is housed
portNumber	Port number where MDS DB listens
Sid	Sid of the MDS DB
contextRoots	
MobileBrowser contextRoot	OUCSSMobileB is the default Context Root

## Mobile Install Properties Example

```

<oucssMobile>
  <!-- This is to identify for deploying application -->
  <deploy>true</deploy>
  <!-- Application name used for Mobile Application deployment. Do not change this -->
  <applicationName>oracle.ugbu.ss.mobile.browser</applicationName>
  <!-- Admin server details -->
  <adminServer>
    <hostName>webcenterhostname.oracle.com </hostName>
    <portNumber>8250</portNumber>
    <serverName>AdminServer</serverName>
    <domainName>portal_domain</domainName>
    <domainLocation>/xx/user_projects/domains/portal_domain</domainLocation>
    <realmName>myrealm</realmName>
    <!-- WebLogic Admin credentials -->
    <security>
      <userName>weblogic</userName>
    </security>
    <password>weblogic#1</password>
  </adminServer>
  <deployTarget>
    <clusterOrServer>Server</clusterOrServer>
    <clusterOrServerName>OUCSSMobility</clusterOrServerName>
    <hostName>mobileserver.oracle.com</hostName>
    <portNumber>8792</portNumber>
  </deployTarget>
  <!-- DB Details to create or connect to OUCSS Schema -->
  <database>
    <createDB>true</createDB>
    <hostName>dbserver.oracle.com</hostName>
    <portNumber>1521</portNumber>
    <sid>OUCSSPORTAL</sid>

    <!-- SYSDBA Credential e.g. sys or system user. -->
    <sysdba>
      <userName>system</userName>
    </sysdba>
    <password>dbssystempasswd</password>
    <schema>
      <userName>OUCSSDBUSER</userName>
    </schema>
    <password>dbpasswd</password>
    <!-- Currently this flag is not used. Leave this blank -->
    <createDataSource></createDataSource>
  </database>
  <dataSourceName>OUCSSDS</dataSourceName>
  <jndi>jdbc/OUCSSDS</jndi>
  <installedVersion>2.1.0.1</installedVersion>
  </database>
  <!-- MDS configuration for Mobile Application -->
  <mdsConfig>
    <repositoryName>mds-CustomPortalDS</repositoryName>
    <partitionName>OUCSSMOBILE</partitionName>
    <repositoryType>DB</repositoryType>
    <jndi>jdbc/mds/CustomPortalDS </jndi>
  </mdsConfig>
  <database>
    <userName>CSSMB_MDS</userName>
    <password>dbpasswd</password>
    <hostName>dbserver.oracle.com</hostName>
    <portNumber>1521</portNumber>
    <sid>OUCSSPORTAL</sid>
  </database>

```

```

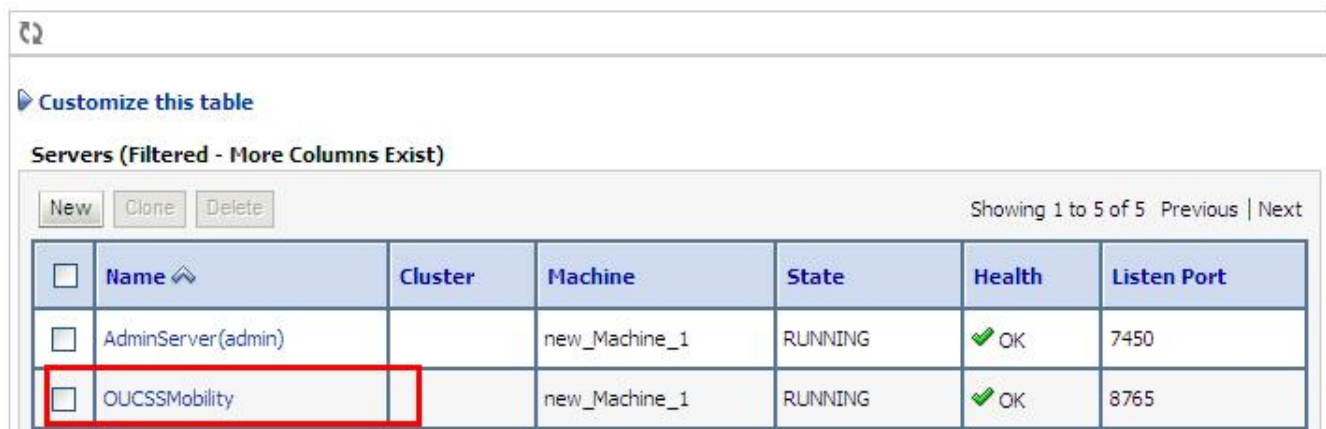
</database>
  </mdsConfig>
<contextRoots>
  <MobileBrowser><contextRoot>OUCSSMobileB</contextRoot></MobileBrowser>
</contextRoots>
</oucssMobile>

```

## Post-Installation Checklist

Use this following checklist to verify that OUCSS Mobile Application is correctly installed.

- 1 Verify that the OUCSSMobility managed server is created successfully and is running.



**Servers (Filtered - More Columns Exist)**

Showing 1 to 5 of 5 Previous | Next

<input type="checkbox"/>	Name ^	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)		new_Machine_1	RUNNING	✓ OK	7450
<input type="checkbox"/>	OUCSSMobility		new_Machine_1	RUNNING	✓ OK	8765

- 2 Check the summary of JDBC Datasources > OUCSS and verify that the target points to OUCSSMobility (which should be checked, along with other servers), as shown in the following example:



**View changes and restarts**  
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.

**Domain Structure**

- webcenter\_domain
  - Environment
  - Deployments
  - Services
    - Messaging
      - Data Sources
      - Persistent Stores
      - Foreign JNDI Providers
      - Work Contexts
      - XML Registries
      - XML Entity Caches
      - jCOM
      - Mail Sessions
      - File T3

**How do I...**

- Target JDBC data sources

**System Status**  
Health of Running Servers  
Failed (0)

Home > Summary of JDBC Data Sources > OUCSSDS

**Settings for OUCSSDS**

Configuration Targets Monitoring Control Security Notes

Save

This page allows you to select the servers or clusters on which you would like to deploy this JDBC data source.

Servers
<input type="checkbox"/> AdminServer
<input type="checkbox"/> OUCSSMobility
<input checked="" type="checkbox"/> WC_Portlet
<input checked="" type="checkbox"/> WC_Spaces

Save

- 3 Check the **Summary of Mail Sessions > OUCSS** to ensure that the target points to the OUCSS Mobility server.

**Domain Structure**

- webcenter\_domain
  - Environment
  - Deployments
  - Services
    - Messaging
      - Data Sources
      - Persistent Stores
      - Foreign JNDI Providers
      - Work Contexts
      - XML Registries
      - XML Entity Caches
      - jCOM
      - Mail Sessions
      - File T3

**How do I...**

- Target mail sessions
- Delete mail sessions

**System Status**  
Health of Running Servers

Save

This page indicates on which WebLogic Server instances or clusters the mail session is accessible. Only applications that have been deployed to the selected servers or clusters can use this mail session.

When you target all or part of a cluster, the Administration Console initiates a two-phase deployment. In general, such a deployment fails if the deployment fails for one active server, it fails for all active servers.

Servers
<input type="checkbox"/> AdminServer
<input checked="" type="checkbox"/> OUCSSMobility
<input type="checkbox"/> OUCSSMobilityTest
<input type="checkbox"/> WC_Portlet
<input checked="" type="checkbox"/> WC_Spaces

- 4 Pre-build the Mobile Application URL:

```
http://webcenterhostname:CSSMobilityserverportno/OUCSSMobileB/
Username/Password: username/passwd
```

**Example:** http://hostname:8765/OUCSSMobileB

# Update System Configuration

As with the OUCSS Portal application, the system configuration properties for the OUCSS Mobile application can be updated from the OUCSS Portal application.

To modify the mobile configuration properties:

- 1 Login to the OUCSS Portal using WSSAdmin.
- 2 Go to the Admin > Configuration Options page.
- 3 Modify the properties (listed in the following table) to match your environment. After the required changes are saved, update the system cache by clicking the **Action Menu > Flush Cache** button.
- 4 Restart the WebLogic managed server(s) for the Mobile application for the System configuration properties to take effect.

Property	Description	Default Value
mobile.brow.branding.image.bg	Background color for the mobile application branding image	#FFFFFF
outage.map.mobile.viewer.url	Outage map URL for the mobile application map. This URL is used to render the map for the mobile application and must be a Oracle Fusion Middleware MapViewer URL	<a href="http://elocation.oracle.com/mapviewer">http://elocation.oracle.com/mapviewer</a>
outage.map.mobile.geocode.url	Geocoding URL for the mobile application outage map. This URL is used to geocode the outage areas and display them as markers on the map.	<a href="http://elocation.oracle.com/elocation">http://elocation.oracle.com/elocation</a>
outage.map.mobile.zoomlevel	Zoom level for the mobile application outage map	4
outage.map.mobile.marker.style	Marker style for the mobile application outage map	MVMarkerFactory.STYLE_POINTER_BUBBLE
outage.map.mobile.marker.color	Marker color for the mobile application outage map	MVMarkerFactory.COLOR_RED
outage.map.mobile.tile.layer	Map tile layer for the mobile application outage map	elocation.WORLD_MAP
login.mobile.default.context	Default login context for the mobile application	RESIDENTIAL
mob.brow.sess.timeout.in.sec	Session timeout in seconds for the mobile application	1800

**Note:** For location Geocoding the mobile application is using Oracle's eLocation service which is a cloud-based map data service. For more details go to <http://maps.oracle.com>.

# Uninstalling the OUCSS Mobile Application

- 1 Set the PRODUCT\_HOME environment variable:

**On Windows:**

```
SET PRODUCT_HOME=D:\OUCSS\webcenter_WSS
echo %PRODUCT_HOME%
```

Echo should return **PRODUCT\_HOME** as D:\OUCSS\webcenter\_WSS.

**On UNIX/Linux:**

```
export PRODUCT_HOME=/spl/OUCSS/webcenter_WSS
echo $PRODUCT_HOME
```

Echo should return **PRODUCT\_HOME** as /spl/OUCSS/webcenter\_WSS.

- 2 Set the WebLogic server environment by running the *setWLSEnv.cmd* script (on Windows) or *setWLSEnv.sh* script (on Linux). The scripts are located in <WebCenter\_Home>\wlserver\_10.3\server\bin (where <WebCenter\_Home> is the directory in which WebCenter is installed). After running the *setWLSEnv* script, verify that the **wlserver** environment is set in your **classpath** and **path** environment variables.

**On UNIX/Linux:**

```
source /spl/webcenter/wlserver_10.3/server/bin/setWLSEnv.sh
```

**On Windows:**

```
run D:\webcenter\wlserver_10.3\server\bin\setWLSEnv.cmd
```

- 3 Use the same *InstallProperties.xml* file located in <PRODUCT\_HOME>/config that was updated for installation.

**Important:** Do not update any new values in *InstallProperties.xml* during uninstall; the file should remain the same as it was during installation.

- 4 Execute the following command to change to **PRODUCT\_HOME/bin**:

**On UNIX/Linux:**

```
cd $PRODUCT_HOME/bin
```

**On Windows:**

```
cd %PRODUCT_HOME%\bin
```

- 5 Run the following command to uninstall the following OUCSS Mobility artifacts:

**On Windows:**

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

**On UNIX/Linux:**

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

After running this command check *uninstallmobile.log* for any build errors.

- 6 Run the following command to delete Mobile Application database data

**On Windows:**

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

**On UNIX/Linux:**

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

- 7 Deleting a Managed Server :

**A** In the Change Center of the Administration Console, click Lock & Edit.

**B** In the left pane of the Console, select Environment > Servers.

- C** Stop the managed server OUCSSMobility.
- D** In the Servers table, select the check box next to the OUCSSMobility server instance and click Delete.
- E** Confirm your deletion request.
- F** To activate these changes, in the Change Center of the Administration Console, click Activate Changes.
- G** When the process completes, log in to the Oracle Enterprise Manager console and check that the OUCSSMobility managed server has been deleted.

# Appendix D

## 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"
    xsi:schemaLocation="http://OUCSS.oracle.com ../xsd/OUCSSInstallProperties.xsd"
    xmlns="http://OUCSS.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>webcenterhostname.oracle.com </hostName>
                <portNumber>8250</portNumber>
                <serverName>AdminServer</serverName>
                <domainName>portal_domain</domainName>
                <domainLocation>xx/user_projects/domains/portal_domain</domainLocation>
                <realmName>myrealm</realmName>
                <!-- WebLogic admin credentials -->
                <security>
                    <userName>weblogic</userName>
                    <password>weblogic#1</password>
                </security>
            </adminServer>
            <deployTarget>
                <!-- Optional. If not provided Installer will intelligently identify the Cluster or
Server.-->
                <clusterOrServer>Server</clusterOrServer>
                <clusterOrServerName>WC_CustomPortal</clusterOrServerName>
                <hostName>hostname.oracle.com</hostName>
                <portNumber>8862</portNumber>
```

```

</deployTarget>
<!-- DB Details to create or connect to OUCSS Schema -->
<database>
  <createDB>true</createDB>
  <hostName>dbserver.oracle.com</hostName>
  <portNumber>1521</portNumber>
  <sid>OUCSSPORTAL</sid>

  <!-- SYSDBA Credential e.g. sys or system user. -->
  <sysdba>
    <userName>system</userName>
    <password>dbssystempasswd</password>
  </sysdba>
  <schema>
    <userName>OUCSSDBBUSER</userName>
    <password>dbpasswd</password>
  </schema>
  <!--Currently this flag is not used.Leave this blank -->
  <createDataSource></createDataSource>
  <dataSourceName>OUCSSDS</dataSourceName>
  <jndi>jdbc/OUCSSDS</jndi>
  <installedVersion></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>CSSMB_MDS</userName>
    <password>manager</password>
    <hostName>dbserver.oracle.com</hostName>
    <portNumber>1521</portNumber>
    <sid>OUCSSPORTAL</sid>
  </database>
</mdsConfig>
<contextRoots>
  <OUCSSPortal><contextRoot>OUCSSPortal</contextRoot></OUCSSPortal>
  <OUCSSPortalWeb><contextRoot>OUCSSPortalWeb</contextRoot></OUCSSPortalWeb>
</contextRoots>
</oucssPortal>
<!-- Configuration details related to OUCSS Mobile Application. For complete details
refer to Installation document -->
<oucssMobile>
  <!--This is to identify for deploying application-->
  <deploy>true</deploy>
  <!-- Application name used for Mobile Application deployment.Do not change this -->
  <applicationName>oracle.ugbu.ss.mobile.browser</applicationName>
  <!-- Admin server details -->
  <adminServer>
    <hostName>webcenterhostname.oracle.com </hostName>
    <portNumber>8250</portNumber>
    <serverName>AdminServer</serverName>
    <domainName>portal_domain</domainName>
    <domainLocation>/xx/user_projects/domains/portal_domain</domainLocation>
    <realmName>myrealm</realmName>
    <!-- WebLogic Admin credentials -->
    <security>
      <userName>weblogic</userName>
      <password>weblogic#1</password>
    </security>
  </adminServer>

```

```

<deployTarget>
  <clusterOrServer>Server</clusterOrServer>
  <clusterOrServerName>OUCSSMobility</clusterOrServerName>
  <hostName>mobileserver.oracle.com</hostName>
  <portNumber>8792</portNumber>
</deployTarget>
<!-- DB Details to create or connect to OUCSS Schema -->
<database>
  <createDB>true</createDB>
  <hostName>dbserver.oracle.com</hostName>
  <portNumber>1521</portNumber>
  <sid>OUCSSPORTAL</sid>
  <!-- SYSDBA Credential e.g. sys or system user. -->
  <sysdba>
    <userName>system</userName>
    <password>dbsystempasswd</password>
  </sysdba>
  <schema>
    <userName>OUCSSDBUSER</userName>
    <password>dbpasswd</password>
  </schema>
  <!-- Currently this flag is not used. Leave this blank -->
  <createDataSource></createDataSource>
  <dataSourceName>OUCSSDS</dataSourceName>
  <jndi>jdbc/OUCSSDS</jndi>
  <installedVersion></installedVersion>
</database>
<!-- MDS configuration for Mobile Application -->
<mdsConfig>
  <repositoryName>mds-CustomPortalDS</repositoryName>
  <partitionName>OUCSSMOBILE</partitionName>
  <repositoryType>DB</repositoryType>
  <jndi>jdbc/mds/CustomPortalDS </jndi>
<database>
  <userName>CSSMB_MDS</userName>
  <password>dbpasswd</password>
  <hostName>dbserver.oracle.com</hostName>
  <portNumber>1521</portNumber>
  <sid>OUCSSPORTAL</sid>

</database>
</mdsConfig>
<contextRoots>
  <MobileBrowser><contextRoot>OUCSSMobileB</contextRoot></MobileBrowser>
</contextRoots>
</oucssMobile>
<!-- 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>webcenterhostname.oracle.com </hostName>
    <portNumber>8250</portNumber>
    <serverName>AdminServer</serverName>
    <domainName>portal_domain</domainName>
    <domainLocation>/xx/user_projects/domains/portal_domain</domainLocation>
    <realmName>myrealm</realmName>
    <!-- WebLogic Admin credentials -->
    <security>

```

```

        <userName>weblogic</userName>
        <password>weblogic#1</password>
    </security>
</adminServer>
<deployTarget>
    <!-- Optional.If not provided Installer will intelligently identify the Cluster or
Server.-->
    <clusterOrServer>Server</clusterOrServer>
    <clusterOrServerName>WC_CustomPortal</clusterOrServerName>
    <hostName>webcenterhostname.oracle.com</hostName>
    <portNumber>8250</portNumber>
</deployTarget>
    <!-- DB Details to create or connect to OUCSS Schema -->
<database>
    <createDB>true</createDB>
        <hostName>dbserver.oracle.com</hostName>
        <portNumber>1521</portNumber>
        <sid>OUCSSPORTAL</sid>
        <sysdba>
            <userName>system</userName>
            <password>dbsystempasswd</password>
        </sysdba>
    <schema>
        <userName>OUCSSDDBUSER</userName>
        <password>dbpasswd</password>
    </schema>
    <!-- Currently this flag is not used.Leave this blank -->
    <createDataSource></createDataSource>
    <dataSourceName>OUCSSDS</dataSourceName>
    <jndi>jdbc/OUCSSDS</jndi>
    <installedVersion></installedVersion>
</database>
    <!-- MDS configuration for Inbound -->
<mdsConfig>
    <repositoryName>mds-CustomPortalDS</repositoryName>
    <partitionName>OUCSSInbound</partitionName>
    <repositoryType>DB</repositoryType>
    <jndi>jdbc/mds/CustomPortalDS</jndi>
    <database>
        <userName>CSSMB_MDS</userName>
        <password>dbpasswd</password>
        <hostName>dbserver.oracle.com</hostName>
        <portNumber>1521</portNumber>
        <sid>OUCSSPORTAL</sid>
    </database>
</mdsConfig>
<contextRoots>
    <AccountEnroll><contextRoot>OUCSS_AccountEnroll</contextRoot></AccountEnroll>
    <OUCSSRest><contextRoot>OUCSSRest</contextRoot></OUCSSRest>
    <Offers><contextRoot>OUCSS_Offers</contextRoot></Offers>
</contextRoots>
</oucssInbound>
    <!-- Configuration for OUCSS Portlet Producer.For complete details refer to Installation
document -->
    <oucssPortletProducer>
        <!--This is to identify for deploying application-->
        <deploy>true</deploy>
        <!-- Please do not change this application name as this being used to deploy -->
        <applicationName>OUCSSPortletsProducer</applicationName>
        <adminServer>
            <hostName>webcenterhostname.oracle.com</hostName>
            <portNumber>8250</portNumber>
            <serverName>AdminServer</serverName>

```



```

    <domainName>portal_domain</domainName>
    <domainLocation>/xx/user_projects/domains/portal_domain</domainLocation>
    <realmName>myrealm</realmName>
    <!-- WebLogic Admin credentials -->
    <security>
      <userName>weblogic</userName>
      <password>weblogic#1</password>
    </security>
  </adminServer>
  <deployTarget>
    <!-- Optional.If not provided Installer will intelligently identify the Cluster or
Server.-->
    <clusterOrServer>Server</clusterOrServer>
    <clusterOrServerName>WC_CustomPortal</clusterOrServerName>
    <hostName> </hostName>
    <portNumber> </portNumber>
  </deployTarget>
  <database>
    <createDB>true</createDB>
    <hostName>dbserver.oracle.com</hostName>
    <portNumber>1521</portNumber>
    <sid>OUCSSPORTAL</sid>

    <!-- SYSDBA Credential e.g. sys or system user. -->
    <sysdba>
      <userName>system</userName>
      <password>dbssystempasswd</password>
    </sysdba>
    <schema>
      <userName>OUCSSDBBUSER</userName>
      <password>dbpasswd</password>
    </schema>
    <!-- Currently this flag is not used.Leave this blank -->
    <createDataSource></createDataSource>
    <dataSourceName>OUCSSDS</dataSourceName>
    <jndi>jdbc/OUCSSDS</jndi>
    <installedVersion></installedVersion>
  </database>
  <!-- MDS configuration for PortletProducer -->
  <mdsConfig>
    <repositoryName>mds-CustomPortalDS</repositoryName>
    <partitionName>OUCSSPortletProducer</partitionName>
    <repositoryType>DB</repositoryType>
    <jndi>jdbc/mds/CustomPortalDS</jndi>
  </mdsConfig>
  <database>
    <userName>CSSMB_MDS</userName>
    <password>dbpasswd</password>
    <hostName>dbserver.oracle.com</hostName>
    <portNumber>1521</portNumber>
    <sid>OUCSSPORTAL</sid>

  </database>
</mdsConfig>
<contextRoots>
  <OUCSSPortlets><contextRoot>OUCSSPortlets</contextRoot></OUCSSPortlets>
</contextRoots>
</oucssPortletProducer>
</oucssApplication>
<oucssConnection>
  <!-- CCB webservice connection details -->
  <OUCCB>
    <enabled>true</enabled>
    <hostName>ccbhostname.oracle.com</hostName>

```

```

    <portNumber>7161</portNumber>
    <protocol>http</protocol>
    <context>spl</context>
    <security>
      <userName>SYSUSER</userName>
      <password>sysuser00</password>
      <csf-key>OUCSS_XAI_BASIC_KEY</csf-key>
    </security>
  </OUCCB>
  <!-- NMS webservice connection details -->
  <OUNMS>
    <enabled>true</enabled>
    <hostName>soahostname. oracle.com</hostName>
    <portNumber>8450</portNumber>
    <protocol>http</protocol>
    <partitionName>OUCSS</partitionName>
    <security>
      <userName>weblogic</userName>
      <password>weblogic#1</password>
      <csf-key>OUCSS_INTG_BASIC_KEY</csf-key>
    </security>
  </OUNMS>
  <!-- MDM webservice connection details -->
  <OUMDM>
    <enabled>true</enabled>
    <hostName>soahostname.oracle.com</hostName>
    <portNumber>8450</portNumber>
    <protocol>http</protocol>
    <partitionName>OUCSS</partitionName>
    <security>
      <userName>weblogic</userName>
      <password>weblogic#1</password>
      <csf-key>OUCSS_INTG_BASIC_KEY</csf-key>
    </security>
  </OUMDM>
  <!-- Notification webservice connection details -->
  <OUNC>
    <enabled>true</enabled>
    <hostName>soahostname.oracle.com</hostName>
    <portNumber>8450</portNumber>
    <protocol>http</protocol>
    <partitionName>OUNC</partitionName>
    <security>
      <userName>weblogic</userName>
      <password>weblogic#1</password>
      <csf-key>OUCSS_OUNC_BASIC_KEY</csf-key>
    </security>
  </OUNC>
  <!-- Configuration 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>soahostname.oracle.com</hostName>
    <portNumber>8450</portNumber>
    <protocol>http</protocol>
    <partitionName>OUCSS</partitionName>
    <security>
      <userName>weblogic</userName>
      <password>weblogic#1</password>
      <csf-key>OUCSS_INTG_BASIC_KEY</csf-key>
    </security>
  </OUCSS_BPEL_CCB>
  <OUCSS_Inbound>

```

```
<security>
  <keystore-csf>
    <userName>owsm</userName>
    <password>welcome1</password>
    <csf-key>keystore-csf-key</csf-key>
  </keystore-csf>
  <sign-csf>
    <userName>orakey</userName>
    <password>welcome1</password>
    <csf-key>sign-csf-key</csf-key>
  </sign-csf>
  <enc-csf>
    <userName>orakey</userName>
    <password>welcome1</password>
    <csf-key>enc-csf-key</csf-key>
  </enc-csf>
</security>
</OUCSS_Inbound>
<!-- Mail Server connection details -->
<mailServer>
  <enabled>true</enabled>
  <hostName>mail.domain.com</hostName>
  <portNumber>25</portNumber>
  <protocol>smtp</protocol>
  <fromAddress>wssAdmin@domain.com</fromAddress>
</mailServer>
<!-- MapViewer connection details -->
<mapViewer>
  <enabled>true</enabled>
  <hostName>mapviewerhost.domain.com</hostName>
  <portNumber>7650</portNumber>
  <protocol>http</protocol>
  <context>mapviewer</context>
  <basemap>NAVTEQ_SF.NAVTEQ_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/oucssMobile

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

- /oucssInstall/oucssApplication/oucssInbound

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

- /oucssInstall/oucssApplication/oucssPortletProducer

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

- /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	webcenterhostname.oracle.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

/oucssl/install/oucssl/application/oucssl/portal/adminServer/domainName	Admin server Domain Name of oucsslPortal	portal_domain
/oucssl/install/oucssl/application/oucssl/portal/adminServer/domainLocation	Admin Server Domain Location of oucsslPortal	/XXX/UCSS210/Middleware/user_projects/domains/portal_domain
/oucssl/install/oucssl/application/oucssl/portal/adminServer/realmName		myrealm
/oucssl/install/oucssl/application/oucssl/portal/adminServer/security/username	Admin user name to connect to Admin server	weblogic
/oucssl/install/oucssl/application/oucssl/portal/adminServer/security/password	Admin user password to connect to Admin server	<b>WLSAdminPasswd</b>
/oucssl/install/oucssl/application/oucssl/portal/deployTarget/clusterOrServer	Deployment Target Type for CSS Portal	Cluster (or) Server
/oucssl/install/oucssl/application/oucssl/portal/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting CSS.	WC_CustomPortal
/oucssl/install/oucssl/application/oucssl/portal/deployTarget/hostname	URL for the Cluster/Server hosting CSS.This will host the UCSS Portal EAR file	portalhostname.oracle.com
/oucssl/install/oucssl/application/oucssl/portal/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS.	9000
/oucssl/install/oucssl/application/oucssl/portal/database/createDB	Flag to indicate if CSS Schema should be created	True/False
/oucssl/install/oucssl/application/oucssl/portal/database/hostname	Hostname to connect to CSS Database	Dbserver.oracle.com
/oucssl/install/oucssl/application/oucssl/portal/database/portNumber	Port number to connect to CSS Database	1521
/oucssl/install/oucssl/application/oucssl/portal/database/sid	SID/service name to connect to DB	oucssdb
/oucssl/install/oucssl/application/oucssl/portal/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True/False

/oucssl/install/oucssl/application/oucssl/portal/database/sysdba/username	Sys user to connect to CSS Database	System Note : If using sys user, then use "sys as sysdba".
/oucssl/install/oucssl/application/oucssl/portal/database/sysdba/password	Sys user password	Db password
/oucssl/install/oucssl/application/oucssl/portal/database/schema/username	CSS DB username/schema which will host CSS specific DB objects	oucssluser
/oucssl/install/oucssl/application/oucssl/portal/database/schema/password	Password for CSS DB username/schema	Dbpass
/oucssl/install/oucssl/application/oucssl/portal/database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssl/install/oucssl/application/oucssl/portal/database/dataSourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS
/oucssl/install/oucssl/application/oucssl/portal/database/jndi	Set to jdbc/OUCSSDS	<b>jdbc/OUCSSDS</b>
/oucssl/install/oucssl/application/oucssl/portal/database/installedVersion	This property is used only on Upgrade. Set the property to the current installed OUCSS version.	
/oucssl/install/oucssl/application/oucssl/portal/mdsConfig/repositoryName	Name of the MDS repository	mds-CustomPortalDS
/oucssl/install/oucssl/application/oucssl/portal/mdsConfig/partitionName	MDS Partition name of oucsslPortal	OUCSSPortal
/oucssl/install/oucssl/application/oucssl/portal/mdsConfig/repositoryType	Repository type	<b>DB</b> Only DB type MDS is supported
/oucssl/install/oucssl/application/oucssl/portal/mdsConfig/jndi	JNDI name for WebLogic Datasource for Portal MDS	jdbc/mds/CustomPortalDS
/oucssl/install/oucssl/application/oucssl/portal/mdsConfig/database/username	Username of schema hosting MDS for CSS application.	OUCSSCUST_MDS
/oucssl/install/oucssl/application/oucssl/portal/mdsConfig/database/password	Password to connect to schema	

/oucssl/install/oucsslapplication/oucsslportal/mdsconfig/database/hostname	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssl/install/oucsslapplication/oucsslportal/mdsconfig/database/portnumber	Portnumber to connect to DB hosting MDS	Dbportno
/oucssl/install/oucsslapplication/oucsslportal/mdsconfig/database/sid	SID/service name to connect to schema	WC1
/oucssl/install/oucsslapplication/oucsslportal/mdsconfig/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True/False
/oucssl/install/oucsslapplication/oucsslportal /contextRoots/UCSSPortal/contextRoot	Context Root for the UCSSPortal	UCSSPortal
/oucssl/install/oucsslapplication/oucsslportal /contextRoots/UCSSPortalWeb/contextRoot	Context Root for the UCSSPortalWeb	UCSSPortalWeb
/oucssl/install/oucsslapplication/oucsslmobile/deploy	Set to true if UCSS Mobile should be deployed	true
/oucssl/install/oucsslapplication/oucsslmobile/applicationName	Application name to be used to install UCSS Mobile	UCSSMobile
/oucssl/install/oucsslapplication/oucsslmobile/adminServer/hostname	Hostname of Admin server of WebLogic domain hosting CSS Mobile application	webcenterhostname.oracle.com
/oucssl/install/oucsslapplication/oucsslmobile/adminServer/portNumber	Port Number of Admin server of WebLogic domain hosting CSS Mobile application	7001
/oucssl/install/oucsslapplication/oucsslmobile/adminServer/serverName	Admin server name of WebLogic domain hosting CSS Mobile	AdminServer
/oucssl/install/oucsslapplication/oucsslmobile/adminServer/domainName	Admin Server Domain Name	portal_domain
/oucssl/install/oucsslapplication/oucsslmobile/adminServer/domainLocation	Admin Server Domain Location	/XXX/UCSS210/Middleware/user_projects/domains/portal_domain

/oucssl/install/oucssl/application/oucssl/mobile/adminserver/realmName	WebLogic RealmName where You need to create OUCSS Users and Groups	myrealm
/oucssl/install/oucssl/application/oucssl/mobile/adminserver/security/username	Admin user to connect to Admin server	weblogic
/oucssl/install/oucssl/application/oucssl/mobile/adminserver/security/password	Admin user password to connect to Admin server	<b>WLSAdminPasswd</b>
/oucssl/install/oucssl/application/oucssl/mobile/deployTarget/clusterOrServer	Deployment Target Type for CSS Mobile	Cluster (or) Server
/oucssl/install/oucssl/application/oucssl/mobile/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting CSS Mobile.	OUCSSMobility
/oucssl/install/oucssl/application/oucssl/mobile/deployTarget/hostname	URL for the Cluster/Server hosting CSS Mobile. This will host the OUCSS Mobile EAR file	mobilehostname.oracle.com
/oucssl/install/oucssl/application/oucssl/mobile/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS Mobile.	9000
/oucssl/install/oucssl/application/oucssl/mobile/database/createDB	Flag to indicate if Mobile related data should be created	True /False
/oucssl/install/oucssl/application/oucssl/mobile/database/hostname	Hostname to connect to CSS Database. Can be same as for CSS Portal	Dbserver.oracle.com
/oucssl/install/oucssl/application/oucssl/mobile/database/portNumber	Port number to connect to CSS Database. Can be same as for CSS Portal	1521
/oucssl/install/oucssl/application/oucssl/mobile/database/sid	SID/service name to connect to DB. Can be same as for CSS Portal	oucssdb



/oucssl/install/oucsslapplication/oucsslmobile/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True /False
/oucssl/install/oucsslapplication/oucsslmobile/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".
/oucssl/install/oucsslapplication/oucsslmobile/database/sysdba/password	Sys user password. Can be same as for CSS Portal	<b>Dbssystempass</b>
/oucssl/install/oucsslapplication/oucsslmobile/database/schema/username	CSS DB username/schema which will host CSS specific DB objects. Can be same as for CSS Portal	oucssluser
/oucssl/install/oucsslapplication/oucsslmobile/database/schema/password	Password for CSS DB username/schema. Can be same as for CSS Portal	Dbpass
/oucssl/install/oucsslapplication/oucsslmobile/database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssl/install/oucsslapplication/oucsslmobile/database/datasourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS
/oucssl/install/oucsslapplication/oucsslmobile/database/jndi	This should be as jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssl/install/oucsslapplication/oucsslmobile/database/installedVersion	This property is used only on Upgrade. Set the property to the current installed OUCSS version.	
/oucssl/install/oucsslapplication/oucsslmobile/mdsConfig/repositoryName	Name of the MDS repository for CSS Mobile	mds-CustomPortalDS
/oucssl/install/oucsslapplication/oucsslmobile/mdsConfig/partitionName	MDS Partition name of oucsslmobile	OUCSSMobile

/oucssl/install/oucsslapplication/oucsslmobile/mdsconfig/repositoryType	Repository type	<b>DB</b> Only DB type MDS is supported
/oucssl/install/oucsslapplication/oucsslmobile/mdsconfig/jndi	JNDI name for WebLogic Datasource for CSS Mobile MDS	jdbc/mds/mds-CustomPortalDS
/oucssl/install/oucsslapplication/oucsslmobile/mdsconfig/database/username	Username of schema hosting MDS for CSS Mobile application.	OUCSSCUST_MDS
/oucssl/install/oucsslapplication/oucsslmobile/mdsconfig/database/password	Password to connect to MDS schema	Welcome1
/oucssl/install/oucsslapplication/oucsslmobile/mdsconfig/database/hostname	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssl/install/oucsslapplication/oucsslmobile/mdsconfig/database/portNumber	Portnumber to connect to DB hosting MDS	Dbportno
/oucssl/install/oucsslapplication/oucsslmobile/mdsconfig/database/sid	SID/service name to connect to schema	WC1
/oucssl/install/oucsslapplication/oucsslmobile/contextRoots/MobileBrowser//contextRoot	Context Root for the OUCSSMobile Browser	OUCSSMobileB
/oucssl/install/oucsslapplication/oucsslmobile/inbound/deploy	Set to true if OUCSS Inbound Services should be deployed	true
/oucssl/install/oucsslapplication/oucsslmobile/inbound/applicationName	Application name to be used to install OUCSS Inbound Services	OUCSSInboundServices
/oucssl/install/oucsslapplication/oucsslmobile/inbound/adminServer/hostname	Hostname of Admin server of WebLogic domain hosting OUCSS Inbound Services	webcenterhostname.oracle.com
/oucssl/install/oucsslapplication/oucsslmobile/inbound/adminServer/portNumber	Port Number of Admin server of WebLogic domain hosting OUCSS Inbound Services	7001
/oucssl/install/oucsslapplication/oucsslmobile/inbound/adminServer/serverName	Admin server name of WebLogic domain hosting OUCSS Inbound Services	AdminServer

/oucssl/install/oucsslapplication/oucssl inbound/adminServer/domainName	Admin Server Domain Name	portal_domain
/oucssl/install/oucsslapplication/oucssl inbound/adminServer/domainLocation	Admin Server Domain Location	/XXX/OU CSS210/Middleware/user_projects/domains/portal_domain
/oucssl/install/oucsslapplication/oucssl inbound/adminServer/realName	WebLogic RealName where You need to create OUCSS Users and Groups	myrealm
/oucssl/install/oucsslapplication/oucssl inbound/adminServer/security/username	Admin user to connect to Admin server	weblogic
/oucssl/install/oucsslapplication/oucssl inbound/adminServer/security/password	Admin user password to connect to Admin server	WLSAdminPasswd
/oucssl/install/oucsslapplication/oucssl inbound/deployTarget/clusterOrServer	Deployment Target Type for OUCSS Inbound Services	Cluster (or) Server
/oucssl/install/oucsslapplication/oucssl inbound/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting OUCSS Inbound Services.	WC_CustomPortal
/oucssl/install/oucsslapplication/oucssl inbound/deployTarget/hostname	This will host the OUCSS Inbound will be deployed	portalhostname.oracle.com
/oucssl/install/oucsslapplication/oucssl inbound/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS Inbound	9001
/oucssl/install/oucsslapplication/oucssl inbound/database/createDB	Flag to indicate if Inbound related data should be created	True /False
/oucssl/install/oucsslapplication/oucssl inbound/database/hostname	Hostname to connect to CSS Database. Can be same as for CSS Portal	Dbserver.oracle.com
/oucssl/install/oucsslapplication/oucssl inbound/database/portNumber	Port number to connect to CSS Database. Can be same as for CSS Portal	1521
/oucssl/install/oucsslapplication/oucssl inbound/database/sid	SID/service name to connect to schema	WC1

/oucssl/install/oucssl/application/oucssl/inbound/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True /False
/oucssl/install/oucssl/application/oucssl/inbound/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".
/oucssl/install/oucssl/application/oucssl/inbound/database/sysdba/password	Sys user password. Can be same as for CSS Portal	<b>Dbssystempass</b>
/oucssl/install/oucssl/application/oucssl/inbound/database/schema/username	CSS DB username/schema which will host CSS specific DB objects. Can be same as for CSS Portal	Oucssuser
/oucssl/install/oucssl/application/oucssl/inbound/database/schema/password	Password for CSS DB username/schema. Can be same as for CSS Portal	Dbpass
/oucssl/install/oucssl/application/oucssl/inbound/database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssl/install/oucssl/application/oucssl/inbound/database/datasourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS
/oucssl/install/oucssl/application/oucssl/inbound/database/jndi	This should be as jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssl/install/oucssl/application/oucssl/inbound/database/installedVersion	This property is used only on Upgrade. Set the property to the current installed OUCSS version.	2.1.0.1
/oucssl/install/oucssl/application/oucssl/inbound/mdsConfig/repositoryName	Name of the MDS repository	mds-CustomPortalDS
/oucssl/install/oucssl/application/oucssl/inbound/mdsConfig/partitionName	MDS PartitionName of oucssl/inbound	OUCSSInbound
/oucssl/install/oucssl/application/oucssl/inbound/mdsConfig/repositoryType	Repository type	<b>DB</b> Only DB type MDS is supported

/oucssl/install/oucsslapplication/oucssl inbound/mdsConfig/jndi	JNDI name for WebLogic Datasource for CSS InboundMDS	jdbc/mds/CustomPortalDS
/oucssl/install/oucsslapplication/oucssl inbound /mdsConfig/database/username	Username of schema hosting MDS for CSS Inbound application.	OUCSSCUST_MDS
/oucssl/install/oucsslapplication/oucssl inbound /mdsConfig/database/password	Password to connect to schema	
/oucssl/install/oucsslapplication/oucssl inbound /mdsConfig/database/hostname	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssl/install/oucsslapplication/oucssl inbound /mdsConfig/database/portNumber	Portnumber to connect to DB hosting MDS	1521
/oucssl/install/oucsslapplication/oucssl inbound /mdsConfig/database/sid	SID/service name to connect to schema	WC1
/oucssl/install/oucsslapplication/oucssl inbound/contextRoots/AccountEnroll//contextRoot	Context Root for the Account Enroll	OUCSS_AccountEnroll
/oucssl/install/oucsslapplication/oucssl inbound/contextRoots/OUCSSRest//contextRoot	Context Root for the Rest Services	OUCSSRest
/oucssl/install/oucsslapplication/oucssl inbound/contextRoots/Offers//contextRoot	Context Root for the OUCSS_Offers	OUCSS_Offers
/oucssl/install/oucsslapplication/oucsslPortletProducer/deploy	Set to true if OUCSS Portlet Producer should be deployed	True
/oucssl/install/oucsslapplication/oucsslPortletProducer/applicationName	Application name to be used to install OUCSS Portlet Producer	OUCSSPortletProducer
/oucssl/install/oucsslapplication/oucsslPortletProducer/adminServer/hostname	Hostname of Admin server of WebLogic domain hosting OUCSS Portlet Producer	webcenterhostname.oracle.com
/oucssl/install/oucsslapplication/oucsslPortletProducer/adminServer/portNumber	Port Number of Admin server of WebLogic domain hosting OUCSS Portlet Producer	7001
/oucssl/install/oucsslapplication/oucsslPortletProducer/adminServer/serverName	Admin server name of WebLogic domain hosting OUCSS Portlet Producer	AdminServer

/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/domainName	Admin Server Domain Name of oucssPortletProducer	portal_domain
/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/domainLocation	Admin Server Domain Location of oucssPortletProducer	/XXX/UCSS210/Middleware/user_projects/domains/portal_domain
/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/realmName	WebLogic RealmName where You need to create OUCSS Users and Groups	Myrealm
/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/security/userName	Admin user to connect to Admin server	weblogic
/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/security/password	Admin user password to connect to Admin server	WLSAdminPasswd
/oucssInstall/oucssApplication/oucssPortletProducer/deployTarget/clusterOrServer	Deployment Target Type for OUCSS Portlet Producer	Cluster (or) Server
/oucssInstall/oucssApplication/oucssPortletProducer/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting OUCSS Portlet Producer.	WC_CustomPortal
/oucssInstall/oucssApplication/oucssPortletProducer/deployTarget/hostname	This will host the oucssPortletProducer	portalhostname.oracle.com
/oucssInstall/oucssApplication/oucssPortletProducer/deployTarget/portNumber	Port number for the Cluster/Server hosting oucssPortletProducer	9002
/oucssInstall/oucssApplication/oucssPortletProducer/database/createDB	Flag to indicate if Portlet Producer related data should be created	True /False
/oucssInstall/oucssApplication/oucssPortletProducer/database/hostname	Hostname to connect to CSS Database. Can be same as for CSS Portal	Dbserver.oracle.com

/oucssl/install/oucsslapplication/oucsslportletproducer/database/portNumber	Port number to connect to CSS Database. Can be same as for CSS Portal	1521
/oucssl/install/oucsslapplication/oucsslportletproducer/database/sid	SID/service name to connect to schema	WC1
/oucssl/install/oucsslapplication/oucsslportletproducer/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True/false
/oucssl/install/oucsslapplication/oucsslportletproducer/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"
/oucssl/install/oucsslapplication/oucsslportletproducer/ database/sysdba/password	Sys user password. Can be same as for CSS Portal	<b>Dbssystempass</b>
/oucssl/install/oucsslapplication/oucsslportletproducer/ database/schema/username	CSS DB username/schema which will host CSS specific DB objects. Can be same as for CSS Portal	Oucssluser
/oucssl/install/oucsslapplication/oucsslportletproducer/ database/schema/password	Password for CSS DB username/schema. Can be same as for CSS Portal	Dbpass
/oucssl/install/oucsslapplication/oucsslportletproducer/ database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssl/install/oucsslapplication/oucsslportletproducer/ database/datasourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS
/oucssl/install/oucsslapplication/oucsslportletproducer/ database/jndi	This should be as jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssl/install/oucsslapplication/oucsslportletproducer/ database/installedVersion	This property is used only on Upgrade. Set the property to the current installed OUCSS version.	2.1.0.1

/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/repositoryName	Name of the MDS repository	mds-CustomPortalDS
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/partitionName	MDS partitionName of oucsslportletproducer	OUCSSportletproducer
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/repositoryType	Repository type	<b>DB</b> Only DB type MDS is supported
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/jndi	JNDI name for WebLogic Datasource for PortalProducer MDS	jdbc/mds/CustomPortalDS
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/database/username	Username of schema hosting MDS for CSS PortletProducer application	OUCSSCUST_MDS
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/database/password	Password to connect to schema	
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/database/hostname	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/database/portNumber	Portnumber to connect to DB hosting MDS	1521
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/database/sid	SID/service name to connect to schema	WC1
/oucssl/install/oucsslapplication/oucsslportletproducer/mdsconfig/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True / False
/oucssl/install/oucsslconnection/OUCCB/ /enabled	Set to true if CCB related connections need to be created from CSS Portal	true / false
/oucssl/install/oucsslconnection/OUCCB/ /hostname	Hostname of server hosting CCB application	ccbhostname.oracle.com
/oucssl/install/oucsslconnection/OUCCB/ /portNumber	Portnumber on which CCB application is listening	8500



/oucssl/install/oucsslconnection/OUCCB/ /protocol	Protocol of CCB application URL	http
/oucssl/install/oucsslconnection/OUCCB/context	Appcontext of CCB application URL	If your CCB application URL is http://ccbhostname.us.com:8500/spl, the appcontext would be "spl"
/oucssl/install/oucsslconnection/OUCCB/security/username	Username which should be use to create CSF Key for CCB XAI Inbound calls	SPLXAI
/oucssl/install/oucsslconnection/OUCCB/security/password	Password which should be use to create CSF Key for CCB XAI Inbound calls	splxai00
/oucssl/install/oucsslconnection/OUCCB/security/csf-key	Name of csf-key created in CSS WebLogic domain to connect to CCB application	OUCSS_XAI_BASIC_KEY
/oucssl/install/oucsslconnection/OUNMS/enabled	Set to true if NMS related connections need to be created from CSS Portal	true / false
/oucssl/install/oucsslconnection/OUNMS/hostname	Hostname of SOA server hosting BPEL processes for connecting to NMS application	soahostname.oracle.com
/oucssl/install/oucsslconnection/OUNMS/portNumber	Portnumber on which SOA server is listening	8500
/oucssl/install/oucsslconnection/OUNMS/protocol	Protocol of SOA application URL	http
/oucssl/install/oucsslconnection/OUNMS/partitionName	SOA partition name	OUCSS
/oucssl/install/oucsslconnection/OUNMS/security/username	Username which should be use to create CSF Key for NMS related BPEL processes	Weblogic
/oucssl/install/oucsslconnection/OUNMS/security/password	Password which should be use to create CSF Key for NMS related BPEL processes	Weblogic#1

/oucssl/install/oucsslconnection/OUNMS/security/csf-key	Name of csf-key created in CSS WebLogic domain to connect to NMS related BPEL processes	OUCSS_INTG_BASIC_KEY
/oucssl/install/oucsslconnection/OUNC/enabled	Set to true if Notification center related connections need to be created from CSS Portal	true / false
/oucssl/install/oucsslconnection/OUNC/hostname	Hostname of SOA server hosting BPEL processes for connecting to Notification center	soahostname.oracle.com
/oucssl/install/oucsslconnection/OUNC/portNumber	Portnumber on which SOA server is listening	8500
/oucssl/install/oucsslconnection/OUNC/protocol	Protocol of SOA application URL	http
/oucssl/install/oucsslconnection/OUNC/partitionName	SOA partition name	OUNC
/oucssl/install/oucsslconnection/OUNC/security/username	Username which should be use to create CSF Key for Notification center related BPEL processes	Weblogic
/oucssl/install/oucsslconnection/OUNC/security/password	Password which should be use to create CSF Key for Notification center related BPEL processes	Weblogic#1
/oucssl/install/oucsslconnection/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
/oucssl/install/oucsslconnection/OUCSS_BPEL_CCB/enabled	Configuration for Optional OUCSS-BPEL-CCB BPEL processes.  If enabled, select CCB connections will be configured using the below details.	true / false

/oucssl/install/oucsslconnection/oucssl_bpel_ccb/hostname	Hostname of SOA server hosting BPEL processes for connecting to optional BPEL flows to CCB.	soahostname.oracle.com
/oucssl/install/oucsslconnection/oucssl_bpel_ccb/portnumber	Portnumber on which SOA server is listening	8500
/oucssl/install/oucsslconnection/oucssl_bpel_ccb/protocol	Protocol of SOA application URL	http
/oucssl/install/oucsslconnection/oucssl_bpel_ccb/partitionname	SOA partition name	oucssl
/oucssl/install/oucsslconnection/oucssl_bpel_ccb/security/username	Username which should be use to create CSF Key for optional BPEL flows to CCB	Weblogic
/oucssl/install/oucsslconnection/oucssl_bpel_ccb/security/password	Password which should be use to create CSF Key for optional BPEL flows to CCB.	Weblogic#1
/oucssl/install/oucsslconnection/oucssl_bpel_ccb/security/csf-key	Name of csf-key created in CSS WebLogic domain to connect to optional BPEL flows to CCB.	oucssl_intg_basic_key
/oucssl/install/oucsslconnection/oucssl_inbound/security/keystore-csf/username	Username which should be used to create csf key for Inbound services	owsm
/oucssl/install/oucsslconnection/oucssl_inbound/security/keystore-csf/password	Password which should be use to create CSF Key for Inbound services	Welcome1
/oucssl/install/oucsslconnection/oucssl_inbound/security/keystore-csf/csf-key	Name of csf-key created in CSS WebLogic domain to connect from rest services	keystore-csf-key
/oucssl/install/oucsslconnection/oucssl_inbound/security/sign-csf/username	Username which should be used to create csf key for Inbound services	orakey
/oucssl/install/oucsslconnection/oucssl_inbound/security/sign-csf/password	Password which should be use to create CSF Key for Inbound services	welcome1

/oucssl/install/oucsslconnection/oucssl_inbound/security/sign-csf/csf-key	Name of csf-key created in CSS WebLogic domain to connect from rest services	sign-csf-key
/oucssl/install/oucsslconnection/oucssl_inbound/security/enc-csf/username	Username which should be used to create csf key for Inbound services	orakey
/oucssl/install/oucsslconnection/oucssl_inbound/security/enc-csf/password	Password which should be use to create CSF Key for Inbound services	welcome1
/oucssl/install/oucsslconnection/oucssl_inbound/security/enc-csf/csf-key	Name of csf-key created in CSS WebLogic domain to connect from rest services	enc-csf-key
/oucssl/install/oucsslconnection/mailServer/enabled	Flag to indicate if Mail Server related configuration should be created	true / false
/oucssl/install/oucsslconnection/mailServer/hostname	Mail server hostname	mail.domain.com
/oucssl/install/oucsslconnection/mailServer/portNumber	Mail server portnumber	25
/oucssl/install/oucsslconnection/mailServer/protocol	Mail server protocol	SmtP
/oucssl/install/oucsslconnection/mailServer/fromAddress	Mail server from address	wssAdmin@domain.com
/oucssl/install/oucsslconnection/mapViewer/enabled	Flag to indicate if Map Viewer related configuration should be created	true / false
/oucssl/install/oucsslconnection/mapViewer/hostname	Map Viewer Host name	Mapviewerhost.domain.com
/oucssl/install/oucsslconnection/mapViewer/portNumber	Map Viewer Port number	7001
/oucssl/install/oucsslconnection/mapViewer/protocol	Map Viewer Protocol	http
/oucssl/install/oucsslconnection/mapViewer/context	MapView context	mapviewer
/oucssl/install/oucsslconnection/mapViewer/basemap	MapView base map	NAVTEQ_SF.WORLD_MAP
/oucssl/install/oucsslconnection/mapViewer/ colorTheme	MapView color Theme	OUCSS_OUTAGE_AREAS

/oucssInstall/oucssConnection/mapViewer/ colorThemeLocColumn	MapView color Theme Loc Column	AREA
/oucssInstall/oucssConnection/mapViewer/srid	MapView SRID	8307
/oucssInstall/oucssConnection/ExternalOfferService_WSDL	Configure the WSDL URL of Custom Offer Service if the OTB Offer Service is not used.	<a href="http://host:port/Offers?WSDL">http://host:port/Offers?WSDL</a>

# Appendix E

---

## 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>
  <soappartition></soappartition>
  <mdspartition></mdspartition>
  <EdgeApplications>
    <OUMDM>
      <ManagedServer>
        <hostname>mdmhostname.com</hostname>
        <portnumber>7500</portnumber>
        <protocol>http</protocol>
        <context>ouaf</context>
        <servername/>
        <username/>
        <password/>
      </ManagedServer>
      <username>MDMAPPUSER</username>
      <password>mdmpwd00</password>
    </OUMDM>
    <OUCCB>
      <ManagedServer>
        <hostname>ccbhostname.com</hostname>
        <portnumber>7800</portnumber>
        <protocol>http</protocol>
        <context>spl</context>
        <servername/>
        <username></username>
        <password></password>
      </ManagedServer>
      <username>CCBAPPUSER</username>
```

```

        <password>ccbpwd00</password>
    </OUCCB>
    <OUNMS>
        <enabled>true</enabled>
        <db>
            <xads-flag>true</xads-flag>
            <multi-ds>
                <hostname>dbhost.com</hostname>
                <port>1521</port>
                <sid>SOADB</sid>
                <multids>CSSNMSMultiDS</multids>
                <dsnameslist>CSSNMSDataSource1</dsnameslist>
                <algorithmtype>Load-Balancing</algorithmtype>
            </multi-ds>
            <generic-dss>
                <generic-ds>
                    <hostname>nmsdbhost.com</hostname>
                    <port>1521</port>
                    <sid>NMSDB</sid>
                    <jdbcname>CSSNMSDataSource1</jdbcname>
                    <dbvendor>oracle</dbvendor>
                </generic-ds>
            </generic-dss>
        </db>
    </OUNMS>
</EdgeApplications>
<SOA>
    <AdminServer>
        <hostname>soahost.com</hostname>
        <portnumber>7015</portnumber>
        <servername>AdminServer</servername>
        <username>admin</username>
        <password>admin#1</password>
        <domainname>soa_domain</domainname>
    </AdminServer>
    <ManagedServer>
        <protocol>http</protocol>
        <hostname>soahost.com</hostname>
        <portnumber>9015</portnumber>
        <servername>soa_server1</servername>
        <username>admin</username>
        <password>admin#1</password>
    </ManagedServer>
    <mdsconfig>
        <mdsdbusername>SOA_MDS</mdsdbusername>
        <mdsdbuserpassword>manager</mdsdbuserpassword>
        <mdsdbhostname>dbhost.com</mdsdbhostname>
        <mdsdbportnumber>1521</mdsdbportnumber>
        <mdsdbsid>SOADB</mdsdbsid>
    </mdsconfig>
</SOA>
<Workflow.Notification>
    <fromemailid></fromemailid>
    <Notificationmode></Notificationmode>
</Workflow.Notification>
<EH>
    <dba.dbusername>system</dba.dbusername>
    <dba.dbuserpassword>manager</dba.dbuserpassword>

```

```

<dbusername>FLOWSEH4</dbusername>
<dbuserpassword>manager</dbuserpassword>
<dbuser.createflag>true</dbuser.createflag>
<dbhostname>dbhost.com</dbhostname>
<dbportnumber>1521</dbportnumber>
<dbsid>SOADB</dbsid>
</EH>
<app>
<db_vendor_app>Oracle</db_vendor_app>
<jdbc_ds_name_app></jdbc_ds_name_app>
<jdbc_driver_class_app>oracle.jdbc.OracleDriver</jdbc_driver_class_app>
<db.hostname>nmsdbhost.com</db.hostname>
<db.port>1521</db.port>
<db.sid>nmsdb</db.sid>
<db.adminuser>system</db.adminuser>
<db.adminpwd>manager</db.adminpwd>
<dbuser>nmsdbuser</dbuser>
<dbpwd>nmsdbpwd</dbpwd>
</app>
</config>

```

## InstallProperties XPath Descriptions and Examples

Property	Description	Example
<config>		
<modulename>	Name of the integration module.	Default: <b>OUCSS</b> Do not change this value.
<soappartition>	Name of the soa-partition if wish to be different from module name	OUCSS_SOA Change this according to user's wish
<mdspartition>	Name of the mds-partition if wish to be different from module name	OUCSS_MDS Change this according to user's wish
<EdgeApplications>		
<OUMDM>		
<ManagedServer>		
<hostname>	MDM Application Hostname	mdmhostname.xxx.xxx.com
<portnumber>	MDM application port number	7010
<protocol>	MDM Application Server protocol Valid values are http or https	http or https
<context>	MDM context	ouaf



<servername>	Managed server name	
<username>	Currently not used; leave blank	
<password>	Currently not used; leave blank	
<username>	MDM Application Username used in the MDM credential key OU_MDM2_02	
<password>	MDM Application Password used in the MDM credential key OU_MDM2_02	
<OUCCB>		
<ManagedServer>		
<hostname>	CCB Application Hostname	ccbhostname.xxx.xxx.com
<portnumber>	CCB application port number	7010
<protocol>	CCB Application Server protocol Valid values are http or https	http or https
<context>	CCB context	spl
<servername>	CCB Managed server name	
<username>	User name used to log in as an Managed server administrator.	
<password>	Password used to log in as a Managed server administrator.	
<username>	CCB Application Username used in the CCB credential key OU_CCB_01	
<password>	CCB Application Password used in the CCB credential key OU_CCB_01	
<OUNMS>		
<enabled>	If defined as true, it will create NMS related artifacts.  Valid values are true or false	
<db>		

<xads-flag>	Create XA Data Source flag	Default: <b>true</b>
<multi-ds>		
<hostname>	Database hostname	soadbhostname.xxx.xxx.com
<port>	Database port number	1521
<sid>	Database SID	SOADBINT
<multids>	Multi data source name	<b>CSSNMSMultiDS</b> (Do not change this value.)
<dsnameslist>	Adds the list of the generic data sources the user wants to associate with the multi data source created.	<b>CSSNMSDataSource1</b> (The name(s) defined here should be the same as the name defined in generic-dss/ generic-ds/jdbcname property)
<algorithmtype>	Algorithm type for the Multi Data Source	<b>Values:</b> <b>Load-Balancing</b> (recommended algorithm) or <b>Failover</b>
<generic-dss>		
<generic-ds>		
<hostname>	NMS Database hostname	nmsdbhostname.xxx.xxx.com
<port>	NMS Database port number	1521
<sid>	NMS Database SID	nmssid
<jdbcname>	NMS Data source name	<b>CSSNMSDataSource1</b>
<dbvendor>	DB Vendor	Default: <b>oracle</b>
<jdbc_xa_driver_class>	JDBC Driver class	<b>oracle.jdbc.OracleDriver</b>
<jdbc_driver_class>	JDBC XA Driver class	<b>oracle.jdbc.xa.client.OracleXADataSource</b>
<user>	NMS Database user name	nmsdbuser
<pwd>	NMS Database password	nmsdbpwd
<SOA>		
<AdminServer>		
<hostname>	Host name of the server where admin server hosting SOA suite is installed.	adminserver.example.oracle.com
<portnumber>	Port number the admin server (hosting SOA suite) is listening to.	7043
<servername>	Admin server name (hosting SOA suite)	AdminServer

<username>	User name used to log in as an Admin server (hosting SOA suite) administrator.	WebLogic
<password>	Password used to log in as an Admin server (hosting SOA suite) administrator.	
<domainname>	WebLogic domain name hosting SOA suite.	soa_domain
<ManagedServer>		
<protocol>	Managed Server protocol Valid values are http or https	http
<hostname>	Host name of the server where managed server (hosting SOA suite) is installed.	managedserver.example.oracle.com
<portnumber>	Port number the managed server (hosting SOA suite) is listening to.	8043
<servername>	Managed server name (hosting SOA suite)	Managedserver1
<username>	User name used to log in to managed server (hosting SOA suite) as an administrator.	WebLogic
<password>	Password used to log in to managed server (hosting SOA suite) as an administrator.	WebLogicPwd
<mldsconfig>		
<mldsdbusername>	User name used to log in to MDS schema.	XXX_MDS
<mldsdbuserpassword>	Password used to log in to MDS schema.	
<mldsdbhostname>	Host name of the server hosting the database containing the MDS schema.	Db.hostname.oracle.com
<mldsdbportnumber>	Port number of the database containing MDS schema.	1521
<mldsbsid>	SID of the database containing MDS schema.	SID
<Workflow.Notification>		
<fromemailid>	Email ID which should be set in the "From" property of Workflow Notification	admintest@oracle.com

	bean	
<Notificationmode>	Notification Mode	yes
<EH>		
<dba.dbusername>	User name used to log in as a database administrator (DBA).  This database hosts the schema required for the CSS Direct Flows Integration.	System
<dba.dbuserpassword>	Password used to log in as a database administrator (DBA).  This database hosts the schema required for CSS Direct Flows Integration.	
<dbusername>	User name used to log in to OUCSSDIRFL schema for CSS Direct Flows integration.  This user can be automatically created by the install (set dbuser.createflag to true) or manually outside the install process.	OUCSSDIRFL
<dbuserpassword>	Password used to log in to OUCSSDIRFL schema for CSS Direct Flows Integration.	
<dbuser.createflag>	Flag specifying whether to create a new schema or use the existing schema for CSS Direct Flows Integration.  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)	true
<dbhostname>	Database host name used for CSS Direct Flows Integration.	Db.sample.oracle.com
<dbportnumber>	Database port number used for CSS Direct Flows Integration.	1521

<dbsid>	Database SID used for CSS Direct Flows Integration.	
<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	Oracle
<jdbc_ds_name_app>	Leave blank. Not in use.	
<jdbc_driver_class_app>	JDBC Driver Class	oracle.jdbc.OracleDriver
<db.hostname>	Database hostname	
<db.port>	Database port number	
<db.sid>	Database SID	
<db.adminuser>	Data Admin User name	
<db.adminpwd>	Data Admin password	
<dbuser>	Database User name	
<dbpwd>	Database password	

# Appendix F

---

## 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>
</OUNC>
</config>
```

```

        </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>
        <mdsconfig>
            <mdsdbusername></mdsdbusername>
            <mdsdbuserpassword></mdsdbuserpassword>
            <mdsdbhostname></mdsdbhostname>
            <mdsdbportnumber></mdsdbportnumber>
            <mdsdbsid></mdsdbsid>
        </mdsconfig>
        <partition-name></partition-name>
    </SOA>
    <DB>
        <dba.dbusername></dba.dbusername>
        <dba.dbuserpassword></dba.dbuserpassword>
        <dbusername></dbusername>
        <dbuserpassword></dbuserpassword>
        <dbuser.createflag></dbuser.createflag>
        <dbhostname></dbhostname>
        <dbportnumber></dbportnumber>
        <dbsid></dbsid>
        <installedVersion></installedVersion>
    </DB>
    <EH>
        <dba.dbusername></dba.dbusername>
        <dba.dbuserpassword></dba.dbuserpassword>
        <dbusername></dbusername>
        <dbuserpassword></dbuserpassword>
        <dbuser.createflag></dbuser.createflag>
        <dbhostname></dbhostname>
        <dbportnumber></dbportnumber>
        <dbsid></dbsid>
    </EH>
</Core>
<MailServer>
    <send>
        <hostname></hostname>
        <portnumber></portnumber>
        <protocol></protocol>
        <fromAddress></fromAddress>
    </send>
</MailServer>
<UMS>
    <SMPP>
        <SmsAccountId></SmsAccountId>
        <SmsServerHost></SmsServerHost>
    </SMPP>
</UMS>

```

```

        <TransmitterSystemId></TransmitterSystemId>
        <ReceiverSystemId></ReceiverSystemId>
        <TransmitterSystemType></TransmitterSystemType>
        <ReceiverSystemType></ReceiverSystemType>
        <TransmitterSystemPassword></TransmitterSystemPassword>
        <ReceiverSystemPassword></ReceiverSystemPassword>
        <ServerTransmitterPort></ServerTransmitterPort>
        <ServerReceiverPort></ServerReceiverPort>
        <DefaultEncoding></DefaultEncoding>
        <SenderAddresses></SenderAddresses>
        <applicationName></applicationName>
    </SMPP>
    <EMAIL>
        <MailAccessProtocol></MailAccessProtocol>
        <OutgoingDefaultFromAddr></OutgoingDefaultFromAddr>
        <OutgoingMailServer></OutgoingMailServer>
        <OutgoingMailServerPort></OutgoingMailServerPort>
        <OutgoingMailServerSecurity></OutgoingMailServerSecurity>
        <OutgoingUsername></OutgoingUsername>
        <Outgoingpassword></Outgoingpassword>
        <IncomingUserIDs></IncomingUserIDs>
        <IncomingUserPasswords></IncomingUserPasswords>
        <applicationName></applicationName>
    </EMAIL>
</UMS>
</OUNC>
</config>

```

XPATH	Description	Example
<OUNC>		
< modulename >	Name of the Integration Module	OUNC
<soapartition>	Name of the partition if wish to be different from module name	OUNC_SOA
<mdspartition>	Name of the MDS partition if wish to be different from module name	OUNC_MDS
<EdgeSystems>		
< CCB >		
<enabled>	Boolean value Default is yes. This application is actively part of the integration	Yes
<hostname>	Host Name of the CCB application housed.	xxxx.oracle.com
<portnumber>	port number at which the CCB application is listening.	1025
<servername>	Admin Server name	
<protocol>	The protocol at which the CCB can be accessed. It can be http or https	http
<appcontext>	context root of the Application	spl
<username>	User name used to login to the application	SYSUSER
<password>	password used to login to the application	sysuser00
<MDM>		
<enabled>	Boolean value Default is yes. This application is actively part of the integration	no
<protocol>	The protocol at which the MDM can be accessed.	



It can be http or https		
<hostname>	Host Name of the MDM application housed.	
<portnumber>	port number at which the MDM application is listening.	
<username>	User name used to login to the application	
<password>	password used to login to the application	
<NMS>		
<enabled>	Boolean value Default is yes. This application is actively part of the integration	yes
<DB>		
<dbusername>	Database schema user name for OUNMS	
<dbuserpassword>	Database schema password for OUNMS	
<dbhostname>	Database host name for OUNMS	xxx.us.oracle.com
<dbportnumber>	Database listening port number for OUNMS	1521
<dbsid>	Database service Id for OUNMS	nms
<Core>		
<SOA>		
<AdminServer>		
<hostname>	Host name of the server where admin server is installed	xxx.us.oracle.com
<portnumber>	port number of the server where the admin server is installed.	7015
<servername>	Admin Server name	
<username>	User name used to login to the WebLogic console as administrator	
<password>	password used to login to the WebLogic console as administrator	
<domainname>	WebLogic domain name hosting the SOA server	
< ManagedServer >		
<hostname>	Host name of the server where soa server is installed	xxx.us.oracle.com
<portnumber>	port number of the server where the soa server is installed.	8015
<servername>	SOA Server name	soa_server1
<username>	User name used to login to the WebLogic console as administrator	
<password>	password used to login to the WebLogic console as administrator	
< mdsconfig>		
<mdsdbusername>	User name used to login to the MDS schema	
<mdsdbuserpassword>	Password used to login to the MDS schema	

<mdsdbhostname>	Host name of the database containing the MDS schema	xxx.us.oracle.com
<mdsdbportnumber>	Port number of the database containing the MDS schema	1521
<mdsdbsid>	Service id of the database for the MDS schema	ncmds
<partition-name>	Partition name used for the MDS configurations	
<DB>		
<dba.dbusername>	DBA admin user name to create schemas for NC	
<dba.dbuserpassword>	DBA password to create schemas for NC	
<dbusername>	DB user name with which the schemas are created	
<dbuserpassword>	DB password with which the schemas are created	
<dbuser.createflag>	Re-installation of DB based on the flag.	
<dbhostname>	schema user for the DB created for NC	
<dbportnumber>	schema password for DB created for NC	
<dbsid>	Service id of the database for NC	
<installedVersion>	Installed version	
<EH>		
<dba.dbusername>	DBA admin user name to create schemas for Error Handling	
<dba.dbuserpassword>	DBA password to create schemas for Error Handling	
<dbusername>	DB user name with which the schemas are created	
<dbuserpassword>	DB password with which the schemas are created	
<dbuser.createflag>	Re-installation of DB based on the flag.	
<dbhostname>	schema user for the DB created for EH	
<dbportnumber>	schema password for DB created for EH	
<dbsid>	Service id of the database for EH	
<MailServer>		
<send>		
<hostname>	Mail server host name	
<portnumber>	Mail server port number	
<protocol>		
<fromAddress>		
< UMS >		
< SMPP >		
<SmsAccountId>	Account Identifier on SMSC	
<SmsServerHost>	SMSC server host name (or IP address)	
<TransmitterSystemId>	Account ID used to send out messages	
<ReceiverSystemId>	Account ID used to receive messages	
<TransmitterSystemType>	The type of transmitter system. The default value is 'Logica'	

<ReceiverSystemType>	The type of receiver system. The default value is 'Logica'	
<TransmitterSystemPassword>	Password of transmitter system.	
<ReceiverSystemPassword>	Password of receiver system.	
<ServerTransmitterPort>	TCP port number of transmitter server.	
<ServerReceiverPort>	TCP port number of receiver server.	
<DefaultEncoding>	Default encoding of driver. Default value is 'IA5'	
<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>	this is the application name for the user messaging service-smpp	
< EMAIL >		
<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>	The default FROM address (if one is not provided in the outgoing message).	
<OutgoingMailServer>	The name of the SMTP server. Mandatory only if e-mail sending is required.	
<OutgoingMailServerPort>	The port number of SMTP server. Typically 25.	
<OutgoingMailServerSecurity>	The security used by SMTP server. Possible values are None, TLS and SSL. Default value is None	
<OutgoingUsername>	The username used for SMTP authentication. Required only if SMTP authentication is supported by the SMTP server	
<Outgoingpassword>	The password used for SMTP authentication. Required only if SMTP authentication is supported by the SMTP server.	
<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>	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>	This is the application name for the user messaging service	usermessagingdriver-email

# Appendix G

---

## CSF-Key Creation Failure & 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.

**Note:** 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 H

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## 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 Mobile and OUCSS Portlet Producer).

## 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.

## 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 Portal and OUCSS Portlet applications are aggregated as OUCSSCore.

## OUCSSMobile

Connections associated with residential modules for mobile application are aggregated as OUCSSMobile.

## OUCSSCoreCommercial

Connections associated with commercial modules in OUCSS Portal and OUCSS Portlet 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, OUCSSMobile, etc), and Application Name (e.g., OUCSSPortal, OUCSSMobile, etc.). By categorizing connections using the above four attributes, connections can be created/deleted using any combination.

## Create Connection by Set

To create a set of connections connection by set:

- 1 Set up the environment by performing Steps 3 to 6 in the [Installing OUCSS Portal](#) section of this document.
- 2 Run the following command to create all NMS connections

**Note:** In the below command, replace value of ConnectionSet, EdgeApplication or ApplicationName to suit the requirement.

### On Windows:

```
ant -f ManageConnections.xml createConnectionSet -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -DConnectionSet=OUCSSCore -
DEdgeApplication=OUNMS -DApplicationName=OUCSSPortal -l createConnectionSet.log
```

### On UNIX/Linux:

```
ant -f ManageConnections.xml createConnectionSet -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -DConnectionSet=OUCSSCore -
DEdgeApplication=OUNMS -DApplicationName=OUCSSPortal -l createConnectionSet.log
```

- 3 After running the command check *createConnectionSet.log* for any errors, and fix any errors listed in the log before proceeding.
- 4 Verify the connections are created by performing steps provided in section [Verify Tokenization of the CCB Edge Application wsdl](#) of this document.

## Delete Connection by Set

To delete a set of connections:

- 1 Set up the environment by performing Steps 3 to 6 in the [Installing OUCSS Portal](#) section of this document.
- 2 Run the following command to create all NMS connections

**Note:** In the below command, replace value of ConnectionSet, EdgeApplication or ApplicationName to suit the requirement.

### 3 On Windows:

```
ant -f ManageConnections.xml deleteConnectionSet -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -DConnectionSet=OUCSSCore -
DEdgeApplication=OUNMS -DApplicationName=OUCSSPortal -l deleteConnectionSet.log
```

### 4 On UNIX/Linux:

```
ant -f ManageConnections.xml deleteConnectionSet -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -DConnectionSet=OUCSSCore -
DEdgeApplication=OUNMS -DApplicationName=OUCSSPortal -l deleteConnectionSet.log
```

- 5 After running the command check *deleteConnectionSet.log* for any errors, and fix any errors listed in the log before proceeding.



- 6 Verify the connections are deleted by performing steps provided in section [Verify Tokenization of the CCB Edge Application wsdl](#) of this document.

## Create Connection by Name

A Single Connection can be created if deleted by following the below steps.

- 1 Perform Steps 3 to 6 to setup environment as described in [Installing OUCSS Portal](#) section of this document.
- 2 Run the following command to create the single connection given by ConnectionName:

**Note:** In the below command, replace value of ConnectionName and/or ApplicationName to suit your requirements.

### On Windows:

```
ant -f ManageConnections.xml createConnection -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -
DConnectionName=AccountSummaryService -DApplicationName=OUCSSPortal
createSingleConnection.log
```

### On UNIX/Linux:

```
ant -f ManageConnections.xml createConnection -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -
DConnectionName=AccountSummaryService -DApplicationName=OUCSSPortal
createSingleConnection.log
```

- 3 After running the command check *createSingleConnection.log* for any errors, and fix any errors listed in the log before proceeding.
- 4 Verify the connection is created by performing steps provided in section [Verify Tokenization of the CCB Edge Application wsdl](#) of this document.

## Delete Connection by Name

A Single Connection can be deleted by following the below steps.

- 1 Perform Steps 3 to 6 to setup environment as described in [Installing OUCSS Portal](#) section of this document.
- 2 Run the following command to delete the single connection given by ConnectionName.

**Note:** In the below command, replace value of ConnectionName and/or ApplicationName to suit the requirement.

### On Windows:

```
ant -f ManageConnections.xml deleteConnection -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -
DConnectionName=AccountSummaryService -DApplicationName=OUCSSPortal
deleteSingleConnection.log
```

### On UNIX/Linux:

```
ant -f ManageConnections.xml deleteConnection -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -
DConnectionName=AccountSummaryService -DApplicationName=OUCSSPortal
deleteSingleConnection.log
```

- 3 After running the command check *deleteSingleConnection.log* for any errors, and fix any errors listed in the log before proceeding.
- 4 Verify the connection is deleted by performing steps provided in section [Verify Tokenization of the CCB Edge Application wsdl](#) of this document.

# Updating Connections

To update a connection/connection set, follow steps

- 1 Delete either [a single connection](#) or [connection set](#).
- 2 Modify the InstallProperties.xml file with updated Edge Application details.
- 3 Creating a [single connection](#) or [connection set](#).
  - If 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 I

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## 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>.