ORACLE

Oracle Utilities
Customer Self Service

Installation Guide

Release 2.1.0

E24861-09

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Chapter 1

Overview

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

Additional Resources

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

Resource	Location
WebCenter Portal Developers Guide (11.1.1.7.0)	http://docs.oracle.com/cd/E28280_01/webcenter.1111/e10148/toc.htm
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 v2.1.0.1	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 v2.4.0.1	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 v1.11.0.4	Refer to NMS installation documentation located on the Oracle Software Delivery Cloud.
Oracle SOA Suite documentation	http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html
Oracle MapViewer documentation	http://www.oracle.com/technetwork/middleware/mapviewer/documentation/index.html

Installing Custom Managed Server for OUCSS Portal Whitepaper	Oracle Utilities Customer Self Service section of the Oracle Utilities Documentation area on the Oracle Technology Network (OTN) web site (http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html)

Note: This document and the documentation mentioned above 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

Installation

Software Requirements

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

- Oracle WebCenter release 11.1.1.7.0 on WebLogic server 10.3.6.

- Oracle Utilities Customer Care and Billing release 2.4.0.1 installed on an Oracle database with Service Pack 1.

If integrating Oracle Utilities Meter Data Management:

- Oracle Utilities Meter Data Management release 2.1.0.1 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 v1.11.0.4 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)

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).

- 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).

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)".

Pre-Installation Tasks (Standalone)

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

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   Deploy the Offer Service EAR (optional).

Note: If another Offer Service is used instead of the Out-of-Box Offers web service, the connection information in *InstallProperties.xml* file must be adjusted accordingly.

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:

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.

7   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 (Installation Step #4, Pre-Installation Tasks #4). However, it is better to maintain separate users for OUCSS and WebCenter installations and not use the default root/administrator user.

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

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

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).

```
webcenter_WSS
    bin
    config
    i18n
    Install
        application
        config
        DB
            2.0.0
            2.0.1
            2.1.0
        security
        template
        util
            ant
            py
            xsl
    xsd
```
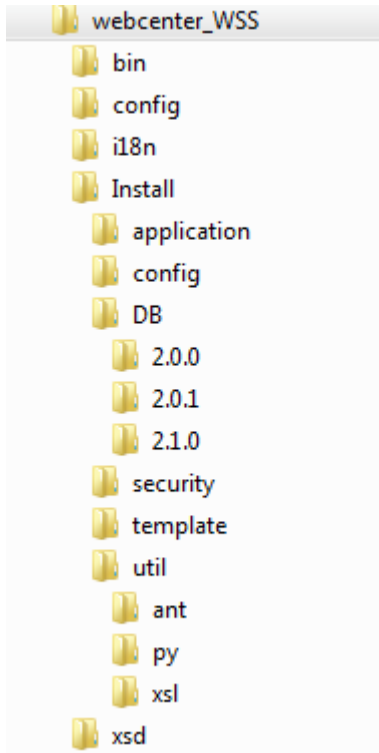
3 Set the PRODUCT_HOME environment variable to point to <<OUCSS_Product_Home>>:

Windows example:

```
SET PRODUCT_HOME= D:\Oracle\Middleware\Oracle_OUCSS1
echo %PRODUCT_HOME%
```

Echo should return PRODUCT_HOME as `D:\Oracle\Middleware\Oracle_OUCSS1`.

Linux example:

```
export PRODUCT_HOME=/u01/Oracle/Middleware/Oracle_OUCSS1
echo $PRODUCT_HOME
```

Echo should return PRODUCT_HOME as `/u01/Oracle/Middleware/Oracle_OUCSS1`.

4 Set the WebLogic server 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:

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

Linux example for bash shell:

```
source /u01/Oracle/Middleware/wlserver_10.3/server/bin/setWLSEnv.sh
```

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

6 Execute the following command to change to PRODUCT_HOME/bin:

On Windows:

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

On UNIX/Linux

```
cd $PRODUCT_HOME/bin
```

7 Update the `<PRODUCT_HOME>/config/InstallProperties.xml` file with 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).

8 Note: Before proceeding with Steps 7-11 ensure that Admin and WC_CustomPortal servers are up and running.

9 Run the DB installation command to create OUCSS DB Schema and Data Source.

10 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 DBTask.log
```

On UNIX/Linux:

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

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

11 Run the deployment/installation command to import default OUCSS users and groups into the WebLogic 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.

12 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.

  C Verify that the groups WSSAdminGroup and WSSCSRGroup were created.

13 Run the installation command to deploy the following OUCSS artifacts:

  • Security Credentials (CSF Keys)

  • *extend.oucss.portal.war* and *OUCSS_Extension.war* as shared libraries in WebLogic. These libraries are required.

  • OUCSSPortalEAR.ear containing the OUCSS Portal

- Create Portal Web Service Connections.

- If the property /oucssInstall/oucssApplication/oucssInbound/deploy is set to true in InstallProperties.xml then Install OUCSSInboundServices

- Create Mail Session.

On Windows:

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

On UNIX/Linux:

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

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

14 Update the System Configuration values. To modify the values:

A Login to OUCSS Portal using WSSAdmin.

B Go to the Admin > Configuration Options page.

C 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.

Property	Description	Default Value
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 accepted 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://portalhostname:portalport/OUCSSPortal/faces/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://portalhostname:portal/OUCSSPortal
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
current.oucss.version	This property tracks the current OUCSS version. Please do not change this property.	2.1.0
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$#*_ABCDEFGHIJKLMNOPQRSTUVWXYZ
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
Commercial Properties		
oucss.comm.context.limit	Property to set the number of accounts that can be selected in Business context to view Multi account taskflows	10
oucss.comm.context.pagesize	Property to set the number of accounts to be displayed in Business context without scroll bar. Accounts more than the set property will be displayed with a scroll bar.	10
set.account.page.size	Property to control the page size of the number of accounts per page presented in the Set. If the number of associated accounts exceeds the value of this parameter, paging will be enabled.	10
Notification Properties		
notification.list.page.size	Property to control the page size of notification. If the number of notifications associated with accounts exceeds the value of this parameter, paging will be enabled.	15
notif.list.chars.preview	Property to set the length of the notification before a preview mode is enabled.	140

notif.validate.regex.phone	Property to set the regular expression to validate the phone number for Notification preferences.	^(?:\+?1[-.]?)?\(?(\d{3})\)?[-.]?(\d{3})[-.]?(\d{4})$

15 Reload Labels and Lookups from CCB with WSSAdmin user.

> **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 at `http://<PortalHost>:<PortalPort>/OUCSSPortal` with WSSAdmin/welcome1.

> **Note:** For security reasons, change the default password for WSSAdmin user from "welcome1" to a new password.

B Select **Labels** from **Admin** menu.
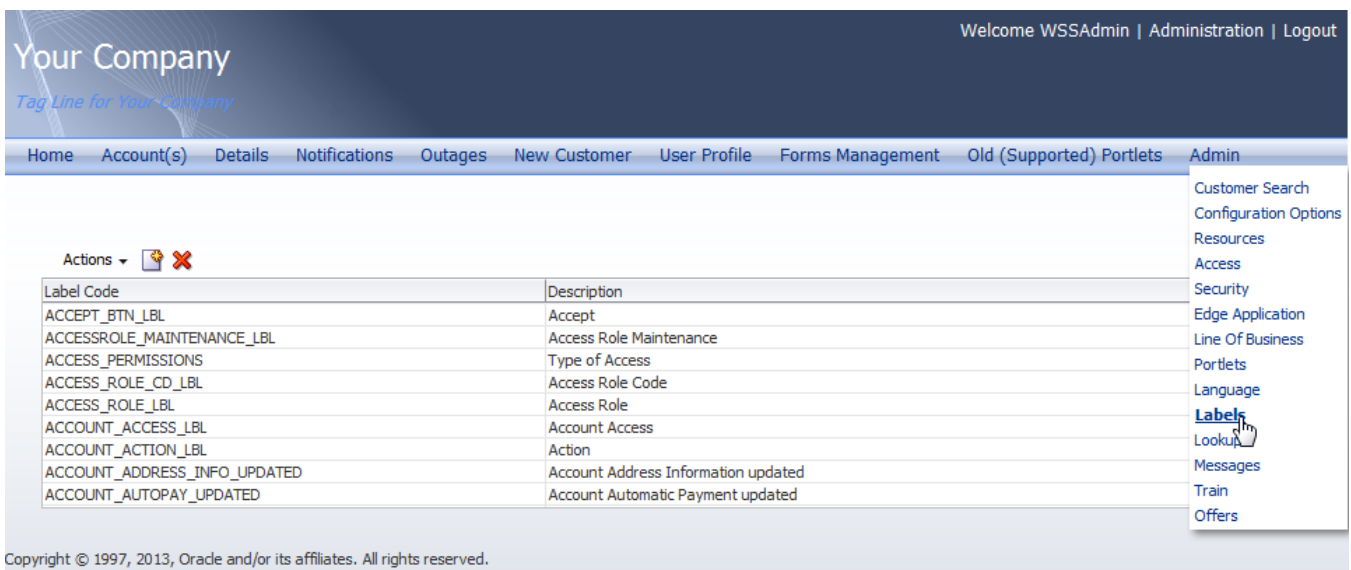
C Click **Actions > Reload Labels** as shown in the following image:
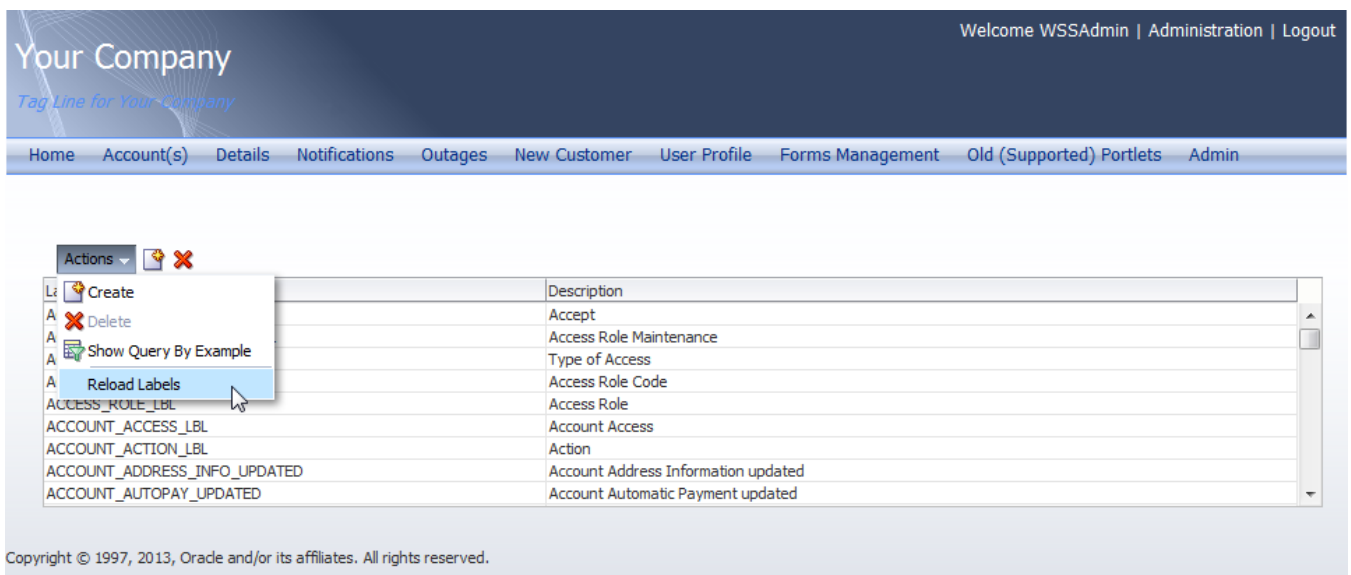
The message, "Labels from edge application loaded successfully" should appear. A restart of the application is required to refresh the labels with the reloaded labels.

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

E Click **Actions > Reload Lookups**.

16 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 BounceServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l restartPortal1.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml BounceServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l restartPortal1.log
```

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` with wlsadminuser/wlsadminpasswd.

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:

Verify the OUCSS Security Credential

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

1 Log in into the Oracle Enterprise Manager console `http://<WLSAdminHost>:<WLSAdminServerPort>/em` with wlsadminuser/wlspasswd.

2 Select **Weblogic_Domain**, then **<portal_domain_name>**.

3 Click **<portal_domain_name>**, then choose **Security > Credentials**, as shown in the following image:
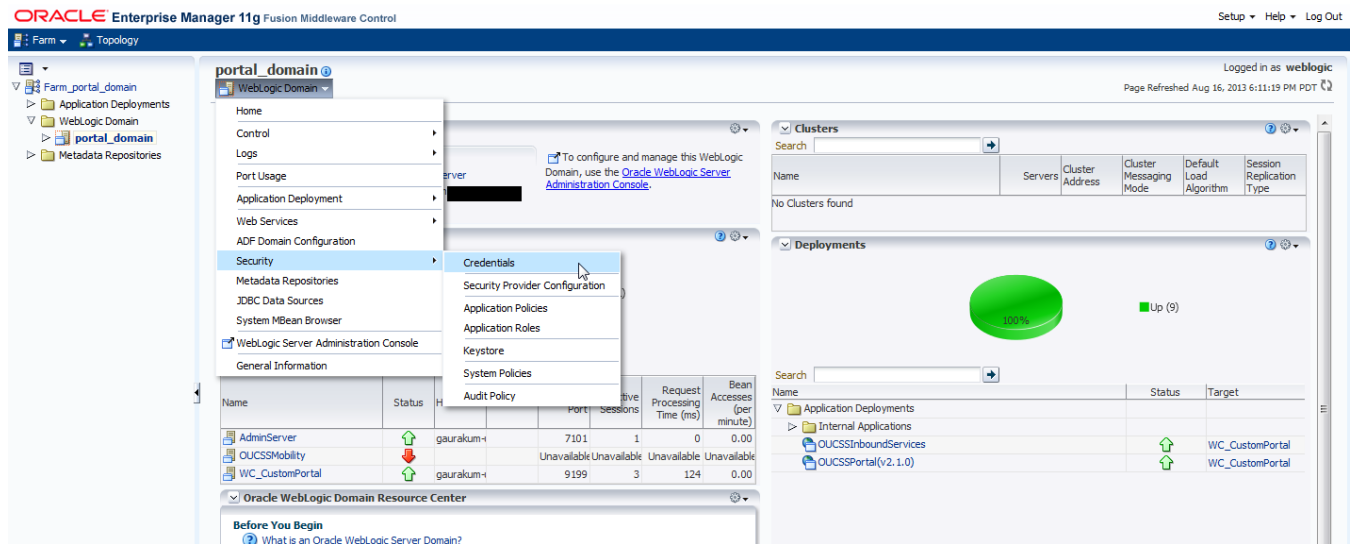
4   Under Credentials select and expand oracle.wsm.security. **OUCSS_XAI_BASIC_KEY**, **OUCSS_INTG_BASIC_KEY**, and **OUCSS_OUNC_BASIC_KEY** should be present, as shown in the following image:
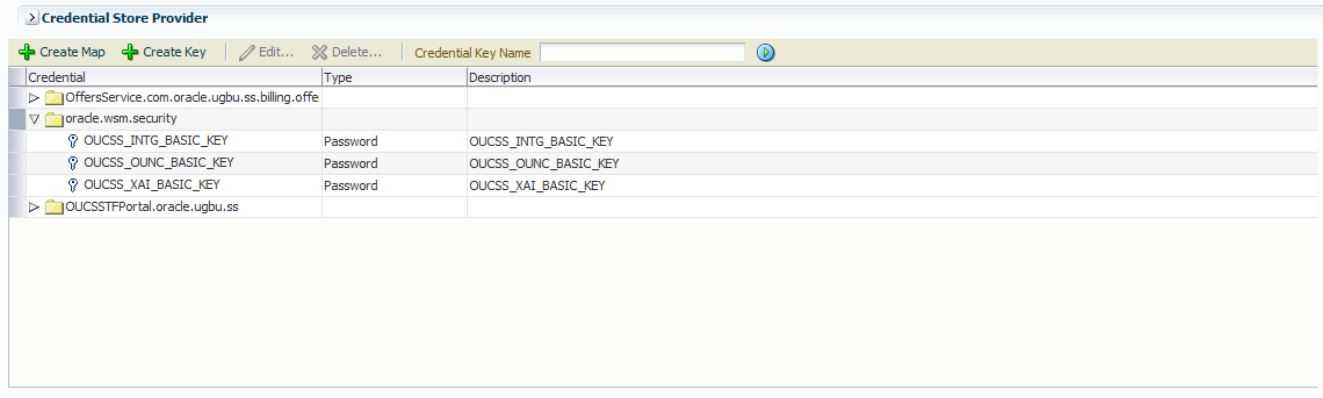
Note: If you have opted for OfferService you will also see credentials for OffersService created under OffersService.com.ugbu.ss.billing.offers

Verify OUCSS Shared Libraries, OUCSS Portal and Offers Deployment

To verify OUCSS shared library deployment:

1   Login in to the Oracle WebLogic Server console as wlsadminuser/wlsadminpasswd.

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 Applications with Deployment Order Number as 516 and Libraries with the Deployment Order Number as 512.

The following deployments should be listed:

   • com.oracle.ugbu.ss.lib (11.1.1, 11.1.1.7.0) [as "Library" deployment]

- com.oracle.ugbu.ss.commercial.lib (11.1.1, 11.1.1.7.0) [as "Library" deployment]

- extend.oucss.portal (11.1.1, 11.1.1.7.0) [as "Library" deployment]

4   Verify that the OUCSSPortal (v2.1.0) is deployed as Enterprise Application and is Active.

5   Optionally, verify OUCSSInboundServices [an optional "Enterprise Application" deployment] is deployed

Note: OUCSSInboundServices deployment depends on the value of the /oucssInstall/oucssApplication/oucssInbound/deploy in *Installproperties.xml*. If the value is set to *true*, OUCSSInboundServices is deployed; if the value is *false*, it is not deployed.

Verify that OUCSS Mail Session is Created

- Goto portal_domain select Services > MailSessions > Under Summary of Mail Sessions, Verify OUCSS is created as shown below,

Verify Tokenization of the CCB Edge Application *wsdl*

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` with wlsadminuser/wlsadminpasswd.

2 Select **OUCSSPortal(v2.1.0)** from Application Deployments**,** then right-click and choose **ADF > Configure ADF Connections** from the context menu as shown in the following image:
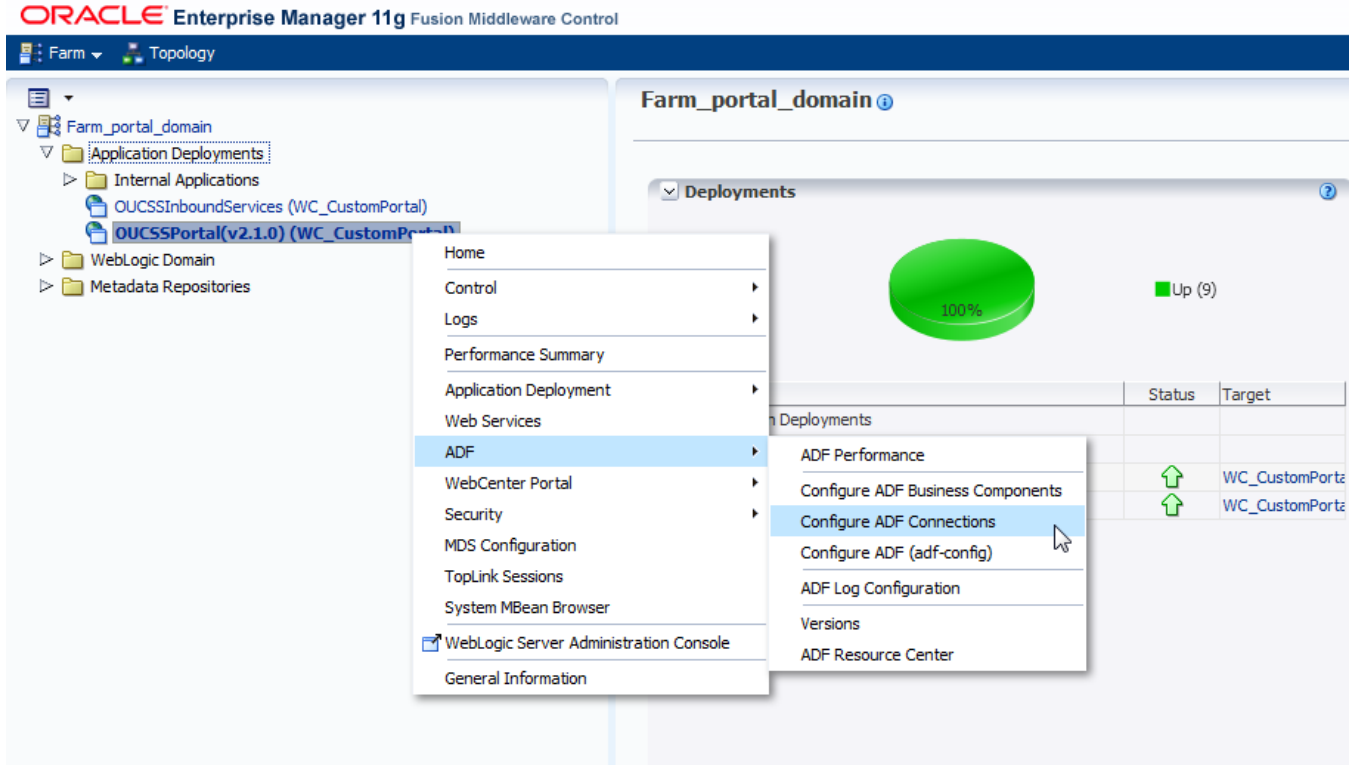
3   Under **Web Service Connections** each connection name has a corresponding CCB WSDL URL. Click on any connection name (e.g., **AccountSummaryService**), click **Edit**, and select **WSDL URL**. The connection URL (e.g., `http://ccbhostname:portno/spl/XAIApp/xaiserver/WXAccountChargesSummaryRetriever?WSDL`) should open in your browser.
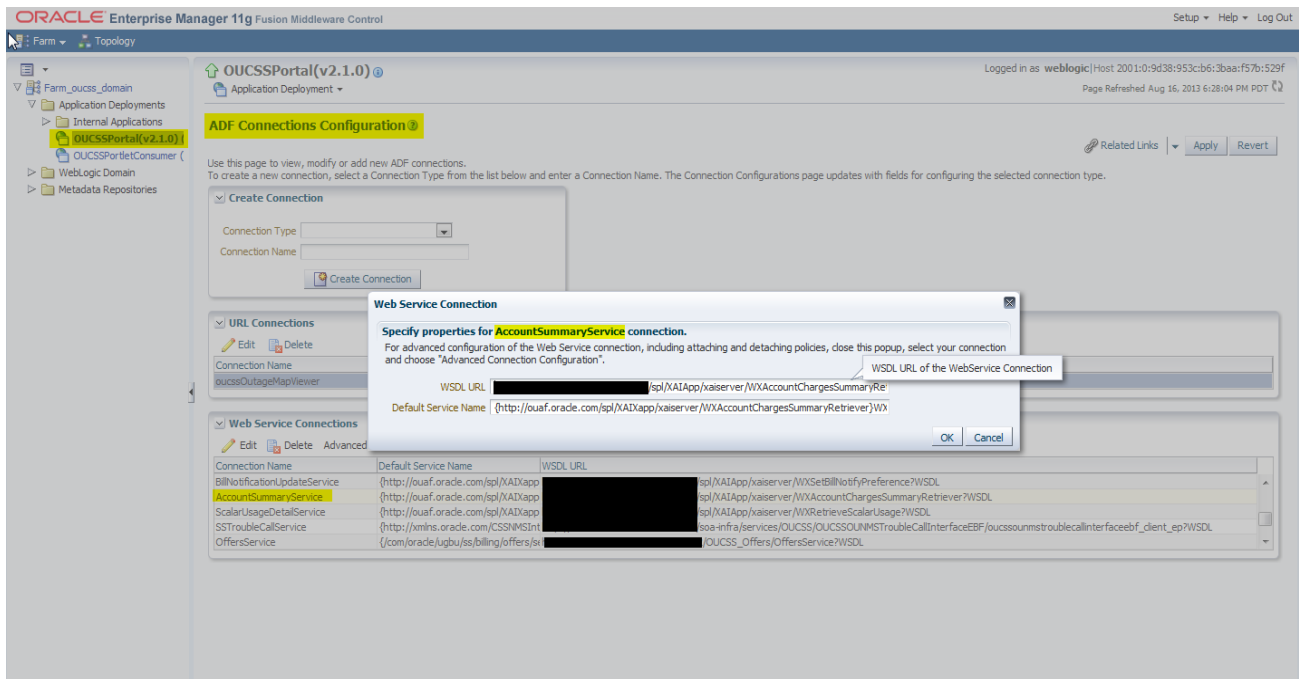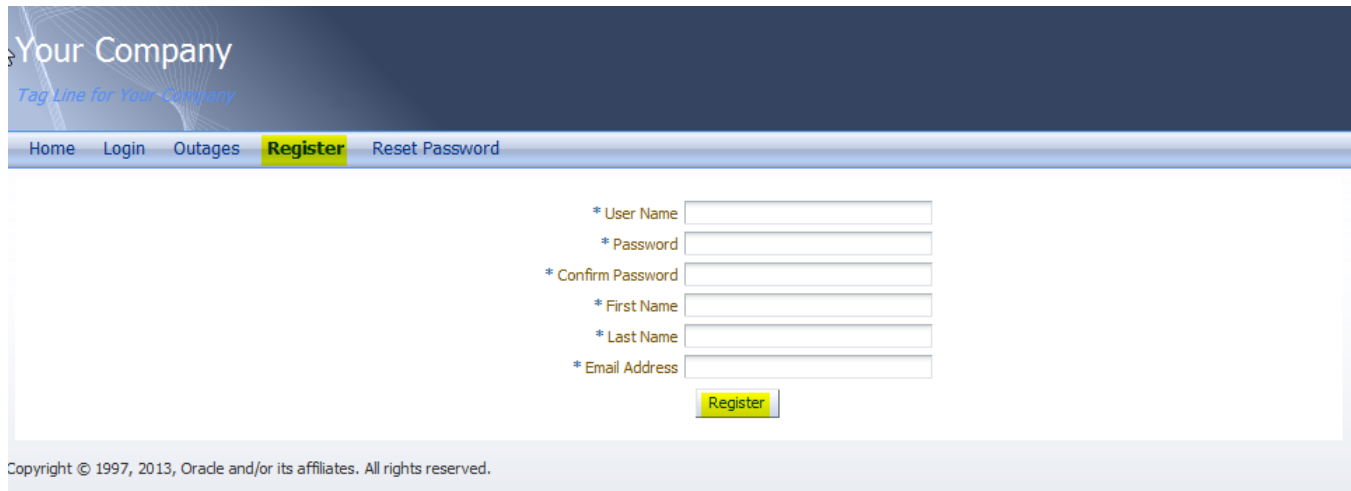
4   Repeat Step 3 for all remaining connections including **oucssOutageMapviewer** (if present) to confirm that connections are de-tokenized with connections configured in InstallProperties.xml.
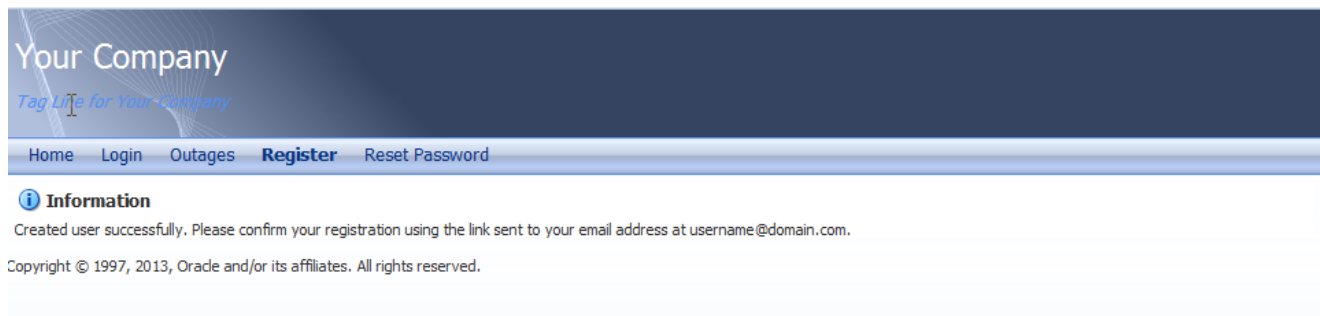
Post-Installation Steps

Register New OUCSS User and Test Functionality

1 Browse to the OUCSS Portal application at `http://<PortalHost>:<PortalPort>/OUCSSPortal` 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**.

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

4 **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.
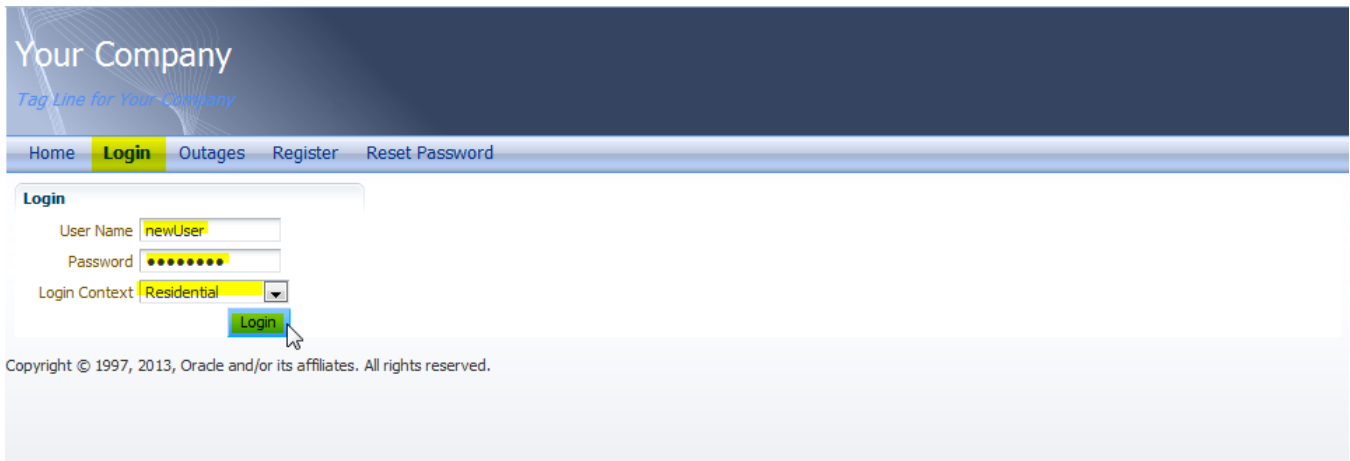
5 From Accounts page, click **Enroll** to open the **Enroll to an Account** details screen.

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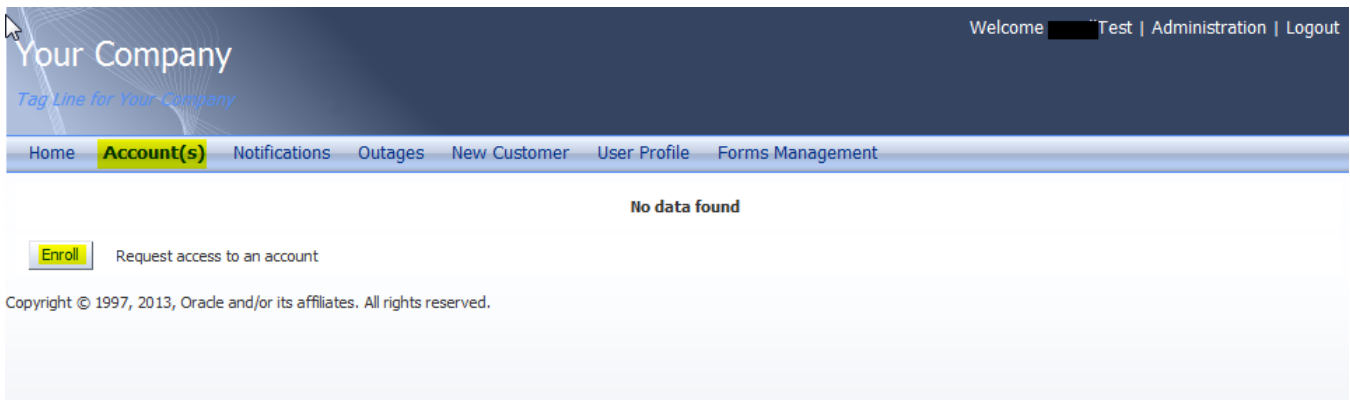
6 Enter enrollment details. The verification fields will differ depending on configuration of your CCB environment. For example, enter **Account Id** and other **verification** details, then click **Enroll**.
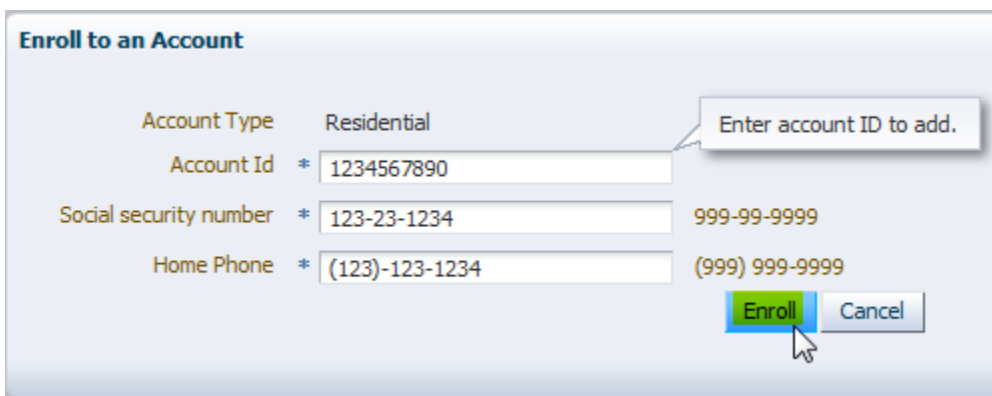
7 After the account has been verified and added, click **Details** and verify establishment of the account by checking that all Dashboard, Information, Financial History, Bill, Compare Plans, and Usage and Payment Arrangement are working properly.

Verify the Security Configuration

Verify OUCSS Admin Default User "WSSAdmin" Functionality :

1 Connect to the OUCSS Portal application at `http://<PortalHost>:<PortalPort>/OUCSSPortal`.

2 Log in as WSSAdmin/welcome1.

Note: For security reasons, change the default password for WSSAdmin user from "welcome1" to a new password from the WLS console.

3 Click the Admin menu and verify that all Admin pages (Customer Search, Configuration Options, Resources, Access, Security, Edge Application, Line of Business, Portlets, Language, Labels, Lookups, Messages, Train and Offers) are accessible and functioning properly.

Verify OUCSS User "WSSCSR" Functionality

1 Connect to the OUCSS Portal application at `http://<PortalHost>:<PortalPort>/OUCSSPortal`.

2 Log in as WSSCSR/welcome1.

Note: For security reasons, change the default password for WSSCSR user from "welcome1" to a new password.

3 Click **Admin** and verify that only the **Customer Search** is displayed.

Chapter 3

Installing CSS BPEL Flows

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

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

Software Requirements

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

- SOA11g / Oracle Enterprise Manager 11.1.17.0 on WebLogic Server 10.3.6.

- Oracle Utilities Meter Data Management release 2.1.0.1 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 2.4.0.1 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 11.1.1.7.0 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 a OUCSS_INTGFLOWS folder. This folder includes a subfolder hierarchy as shown in the following image. If the folder is read-only, remove the read-only attribute from the folder.

2 Set the following environment variables:

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

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

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

On Windows:

```
cd %WL_HOME%\wlsserver_10.3\server\bin\
setWLSEnv.cmd
```

On UNIX/Linux:

```
source "${WL_HOME}/wlserver_10.3/server/bin/setWLSEnv.sh"
```

Notes:

- Do not delete the install directory. This directory is used as the download location for patches.

- For a Windows installation, when updating any of the properties listed in the table below, add "/" to the path (e.g., C:/OUCSS_INTGFLOWS).

- This installation uses the values in $PRODUCT_HOME and its underlying properties file that were used to configure the integrated flow installation.

3 Open a command prompt and go to the <unzipdir>\OUCSS_INTGFLOWS folder which is referred as PRODUCT_HOME. Example: PRODUCT_HOME=/slot/oracle/ OUCSS_INTGFLOWS where you unzipped OUCSS_INTGFLOWS.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 *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.

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.

Post-Installation Checklist

Data Source Configurations Checklist

1 Ensure that the following data sources are created on the server:

- **OUCSSEHDS** – Error Handling Data Source

- **CSSNMSMultiDS** – NMS Multi Data Source

- **CSSNMSDataSource1** – NMS Generic Data Source

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

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

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

A NMS Generic Data Source CSSNMSDataSource1 must point to the NMS Database.
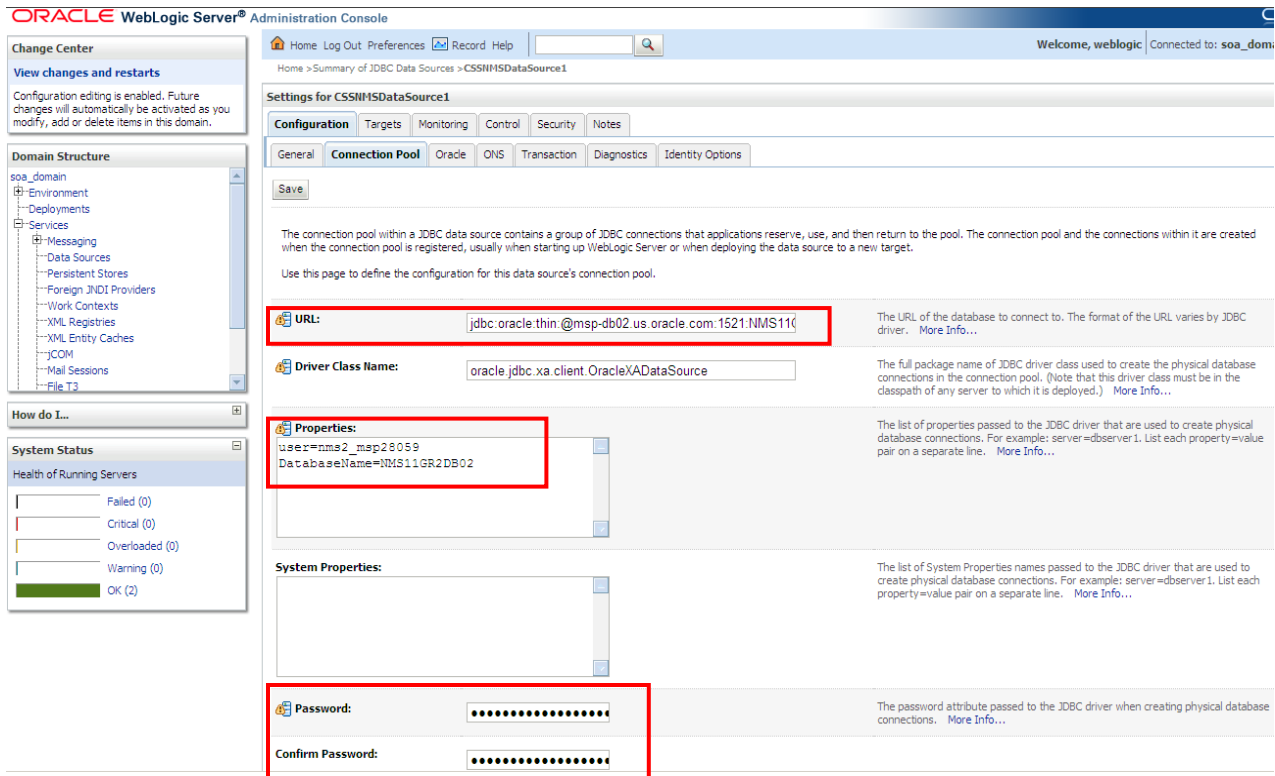
B Verify that the Error Handling Data Source is pointing to the correct Error Handling Database.

3 Test the database for correct configurations.

Navigation: On the Left Pane, select the **Services > Data Sources** and in the main page select the **Monitoring** tab. Select the sub task **Testing** and test the connectivity for the NMS Generic Data Source and Error Handling Data Source.
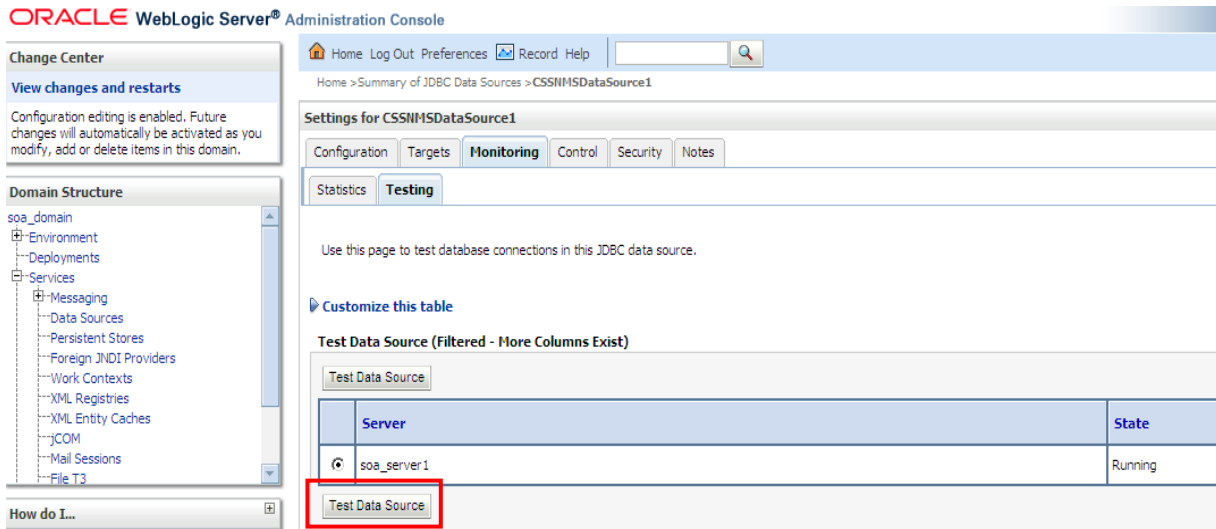
4 Check the NMS Generic Data Source(s) is linked to the NMS Multi Data Source(s).

Database Outbound Connection Pool

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

   • `eis/DB/OUCSSErrorHandling`: ErrorHandling connection instance.

   • `eis/DB/CSSNMS`: NMS connection instance.

2   On the Left Pane, select the **Deployments,** click on the **DBAdapter,** select the **Configuration** tab and select the **Outbound Connection Pools** tab.

3   Expand javax.resource.cci.ConnectionFactory.

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

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

5 Select the `eis/DB/OUCSSErrorHandling`: connection factory and make sure **dataSourceName** is pointed to the Error Handling JNDI name.
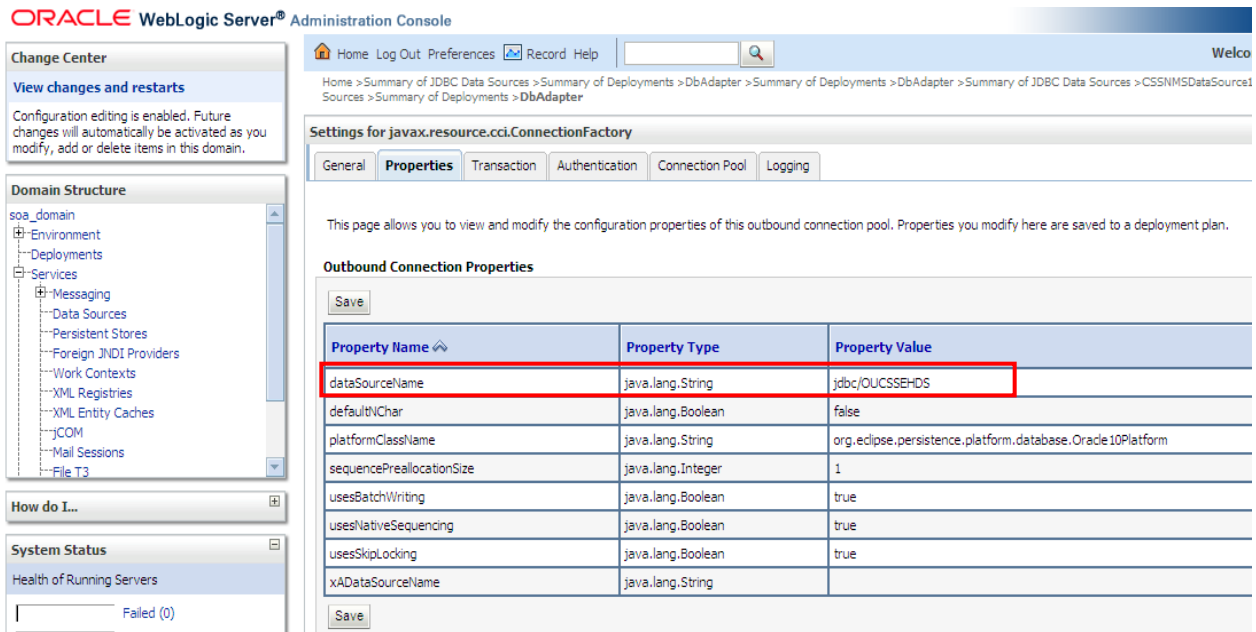
Error Handling Data Source JNDI name is found on **Services > Data Sources** and in the **General** tab.
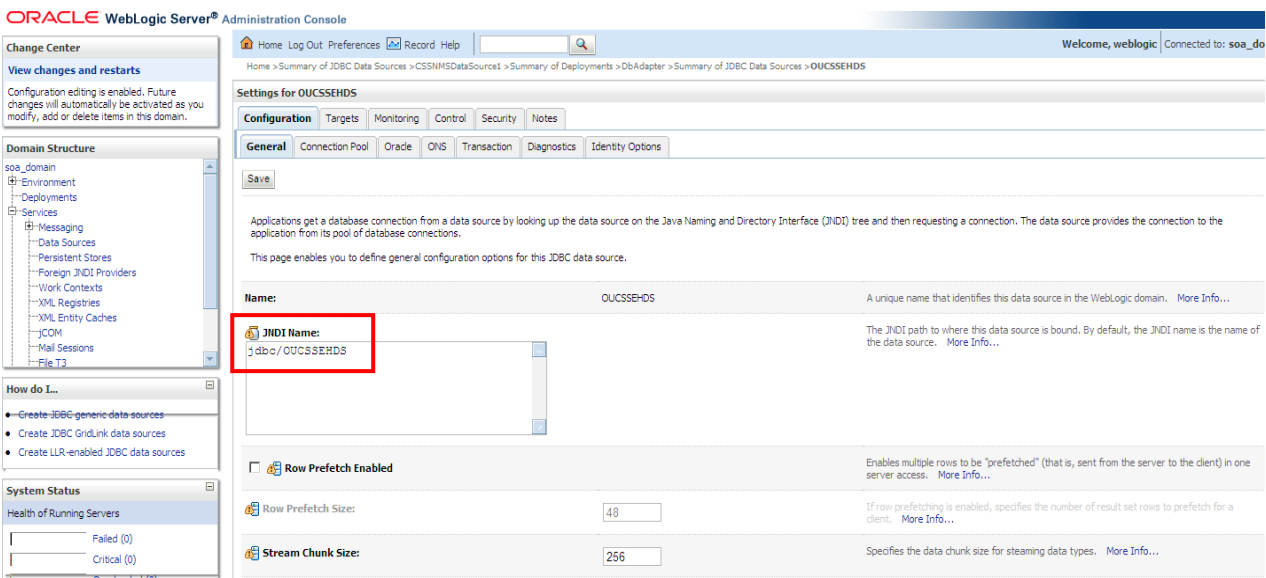
Verify BPEL Wrapper Procedure for Submit Call Created in NMS Database

1 Ensure **BPEL_OUNMSSUBMITCALLSTOREDPROC** package is created under the Package folder in NMS Database.
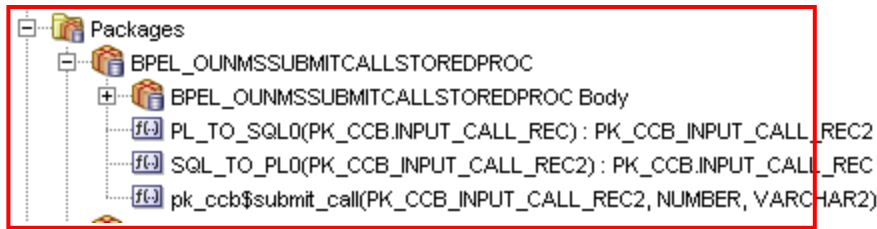
Note: This BPEL Wrapper Procedure is used by the DB adapter in OUCSSOUNMSTroubleCallInterfaceEBF when submitting an outage or trouble call to NMS.

2   Ensure **PK_CCB_INPUT_CALL_REC2** object is created under the Types folder in NMS Database.
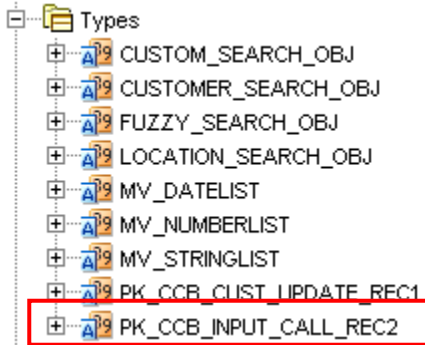
Note: This type is being used by the BPEL Wrapper Procedure.

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:
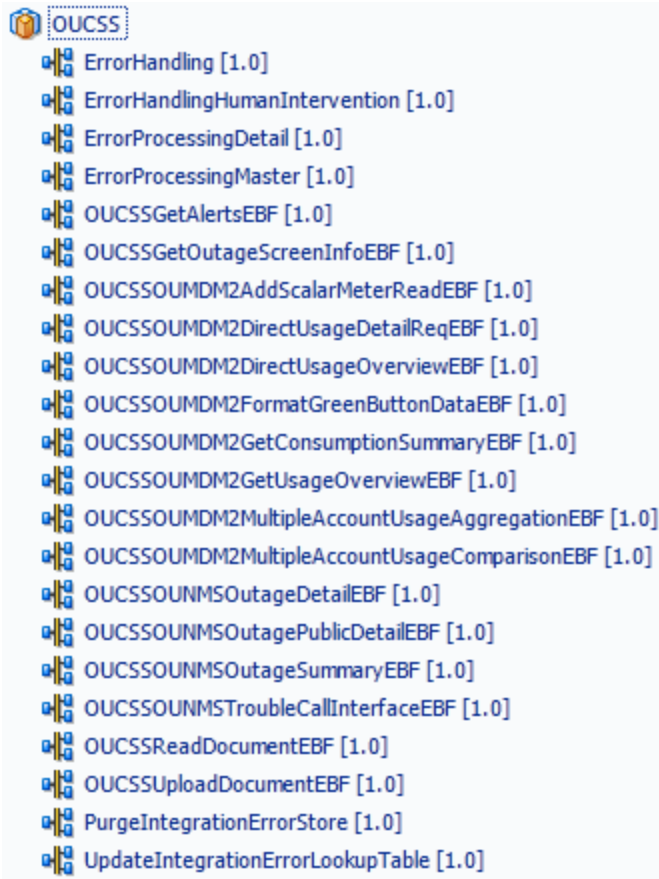
Verify Security Credentials from EM

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.**
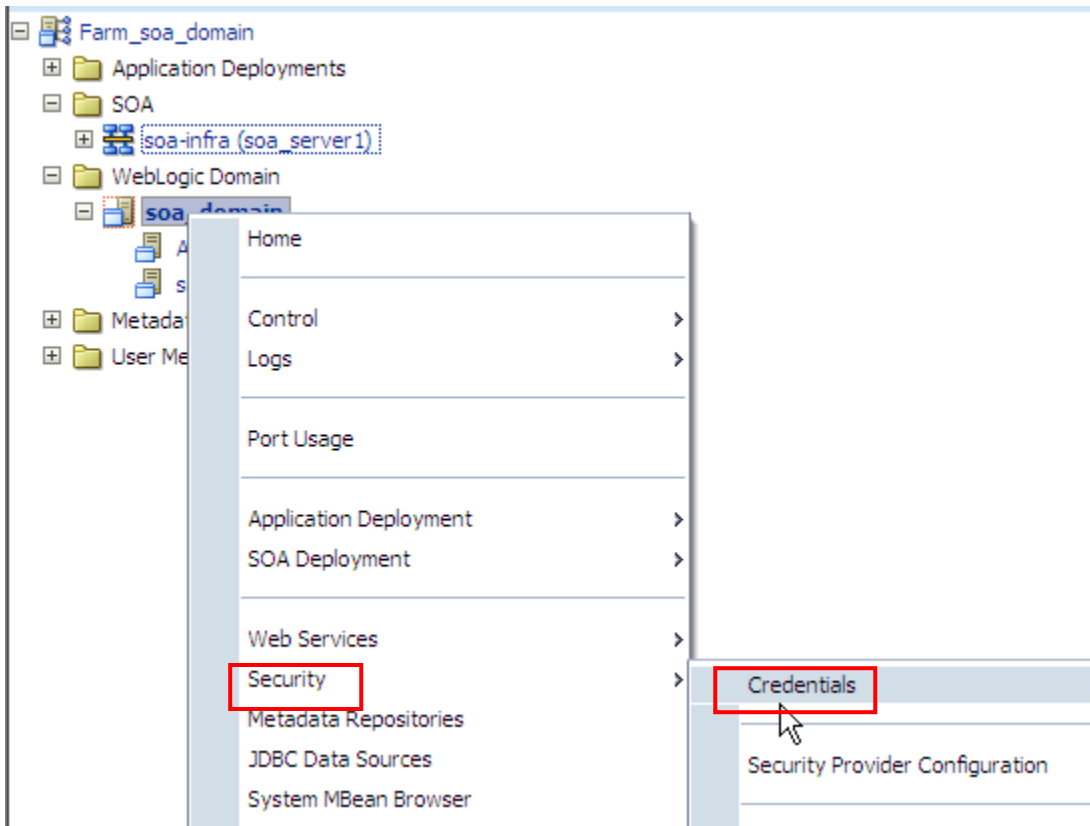
3   Expand the **oracle.wsm.security** credential and verify that the keys **OU_CCB_01** and **OU_MDM2_02** were created.

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.

- Verify that the **WXGetCCBAlertsService** Web Service Type with Service Usage is linked to a service policy:

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

- 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:

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

- Verify that the **oucssgetoutagescreeninfo_client_ep** Web Service Type with Service Usage is linked to a service policy.

- Verify that the **OUCCBGetServiceDetails** Web Service Type with Reference Usage is calling a CCB Web service and is linked to a client policy. The client policy attached to that web service should use the **OU_CCB_01** csf-key.

5   Choose OUCSSOUNMSOutageSummaryEBF, scroll down to the Services and References section:

Services and References

Name	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 **oucssounmstrobulecallinterfaceebf_client_ep** Web Service Type with Service Usage is linked to a service policy.

- Verify that the **ErrorHandling** Web Service Type with Service Reference is not linked to any policy.

8   Choose **OUCSSOUNMSOutagePublicDetailEBF**, scroll down to the Services and References section.

Services and References

Name	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 OUCSSOUMDM2DirectUsageDetailReqEBF, scroll down to the Services and References section.

- 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:

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

- 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

- 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.

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.

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.

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.

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_INTGFLOWS) contains an MDS-Artifacts subfolder with all files that can be deployed to MDS:
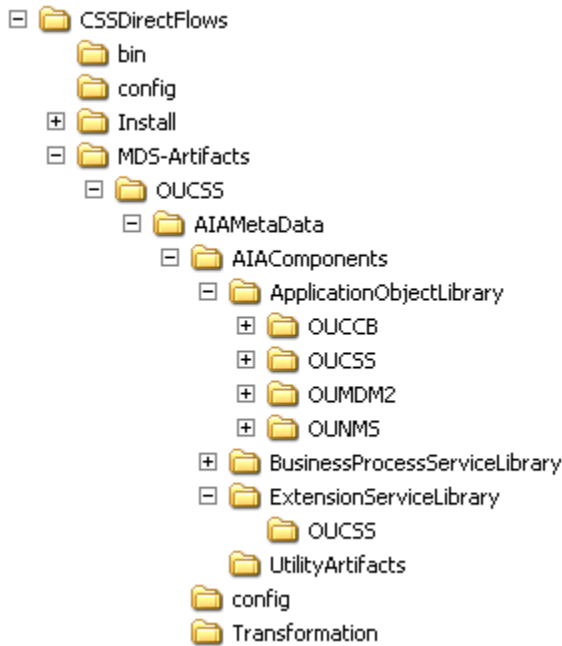
Custom Schema Changes

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

Concrete WSDL Changes for Extensions

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

Uninstalling Direct Integrated Flows

To uninstall direct integrated flows:

1   Set the environment variables as described in Step 2 of "Installing the Integration" earlier in this chapter.

2   Execute the following command to go to the PRODUCT_HOME:

   On UNIX/Linux:

```
cd $PRODUCT_HOME/bin
```

   On Windows:

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

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

See [Appendix F](#) for a sample *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 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 patch 12731103 is installed; this contains the CCB-MDM Integrated Flows needed for Self-Service. Patch 12731103 is also part of CCB-MDM2 Roll up Patch (RUP1) **15970903.**

> **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 three composites are deployed:

- OUCCB2OUMDM2SSUsageDetailEBF

- OUCCB2OUMDM2SSUsageOverviewEBF

- OUCCB2OUMDM2SSUsageReqEBF
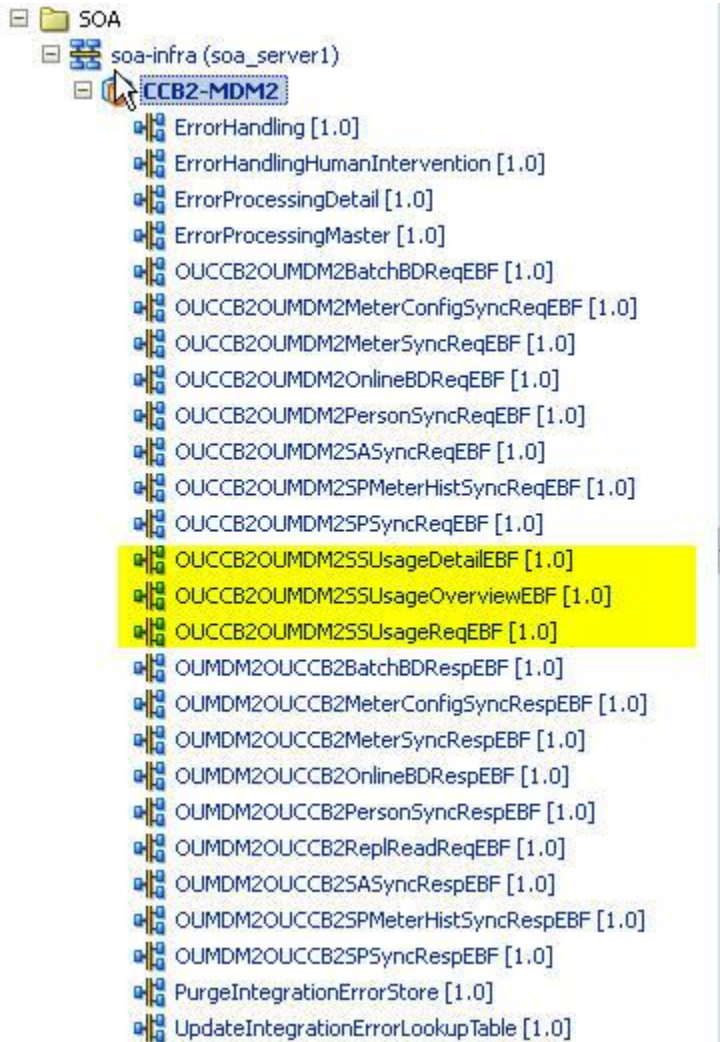
Note: Only OUCCB2OUMDM2SSUsageReqEBF is being used by OUCSS.

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 11.1.1.7.0 on WebLogic Server 10.3.6.
- OUNC is certified with the following edge applications:
  - Oracle Utilities Customer Care and Billing v2.4.0.1 +
  - 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 11.1.1.7.0 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) 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
Unix/Linux and Windows OS	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware
WL_HOME	XXX/Middleware
PRODUCT_VERSION	2.1.0
PRODUCT_HOME	This is the integrated flows product installation home. Example: Unix/Linux: PRODUCT_HOME=/slot/oracle/ OUNC_Flows Windows: PRODUCT_HOME=D:\Oracle\ OUNC_Flows

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

On UNIX/Linux:

```
source "${WL_HOME}/wlserver_10.3/server/bin/setWLSEnv.sh"
```

On Windows:

```
cd %WL_HOME%\wlsserver_10.3\server\bin\setWLSEnv.cmd
```

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 *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   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
```

7 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.
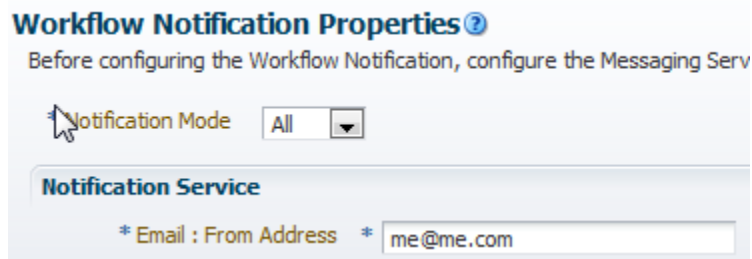
Post Installation Checklist

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-xmpp	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
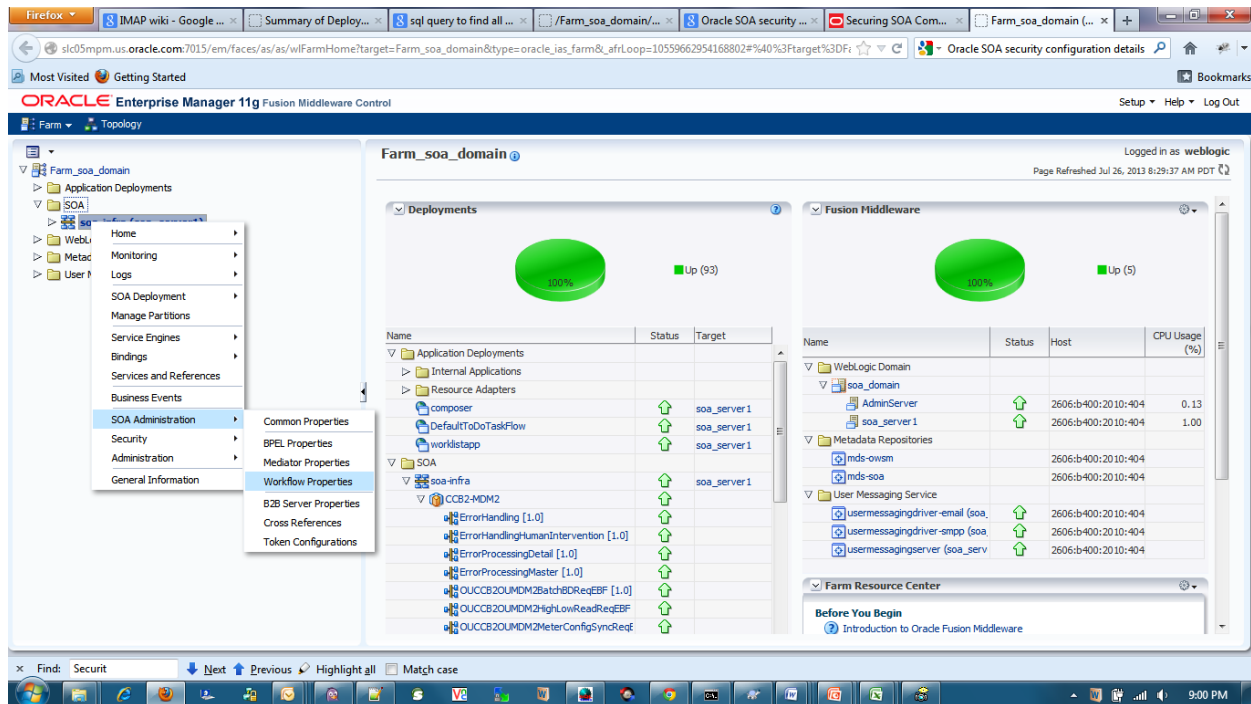
1 Ensure that the Work flow notification properties are set as "**All**".
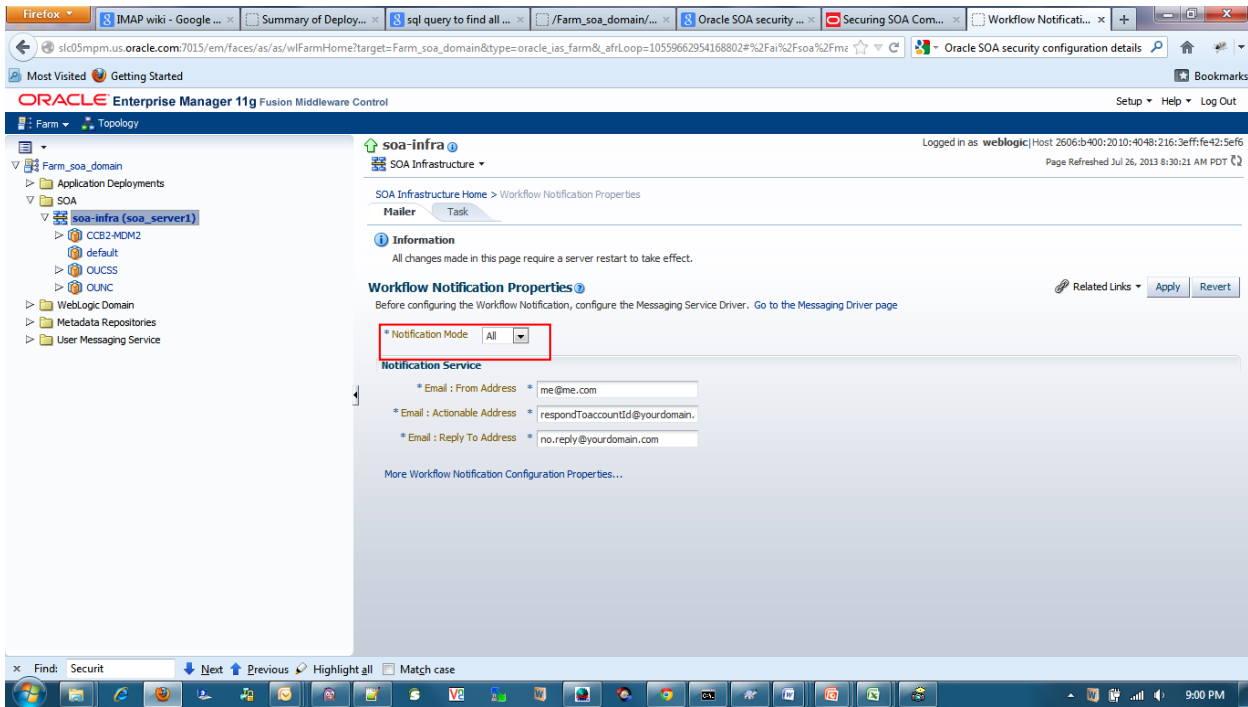
2   Expand the User Messaging service node in the EM left panel as
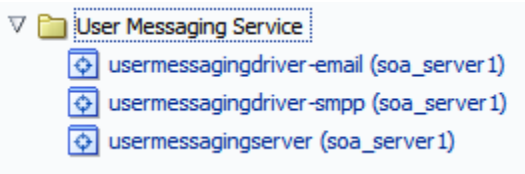
3   Ensure that all these applications are enabled.

4   Select the **usermessagingserver** entry, which should have smpp and email enabled as shown in the following image.
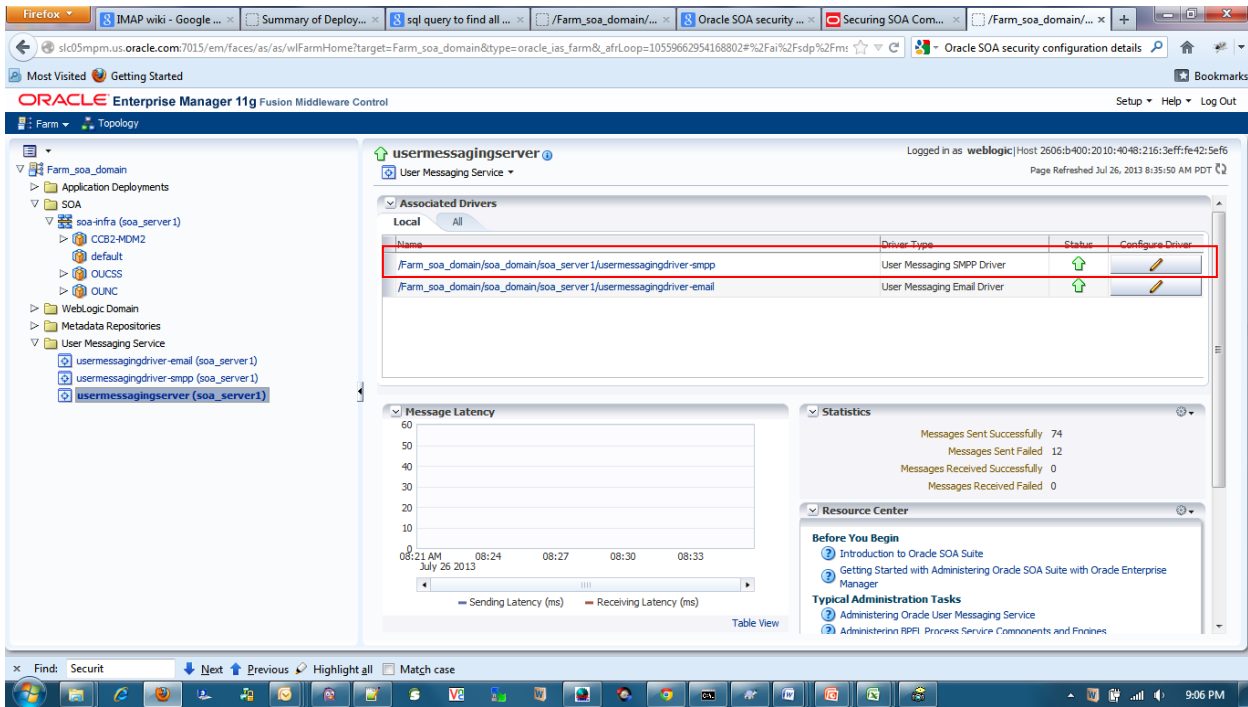
Verify SMPP Properties

1 Click on the button for the Configure Driver with the following entities:
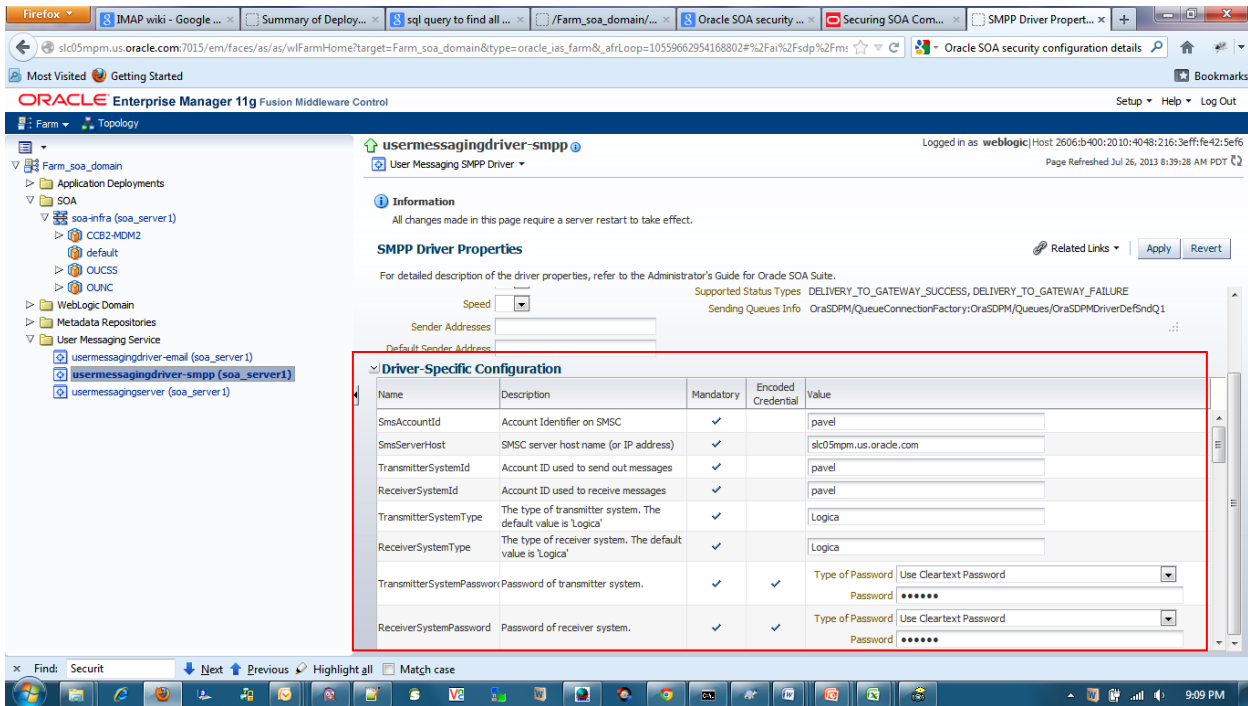
Ensure all properties match those configured in the InstallProperties.xml file (see Appendix D).

Verify Email Properties

Navigate to the User Messaging Service tab in the Enterprise Manager Console and select the **usermessagingserver**
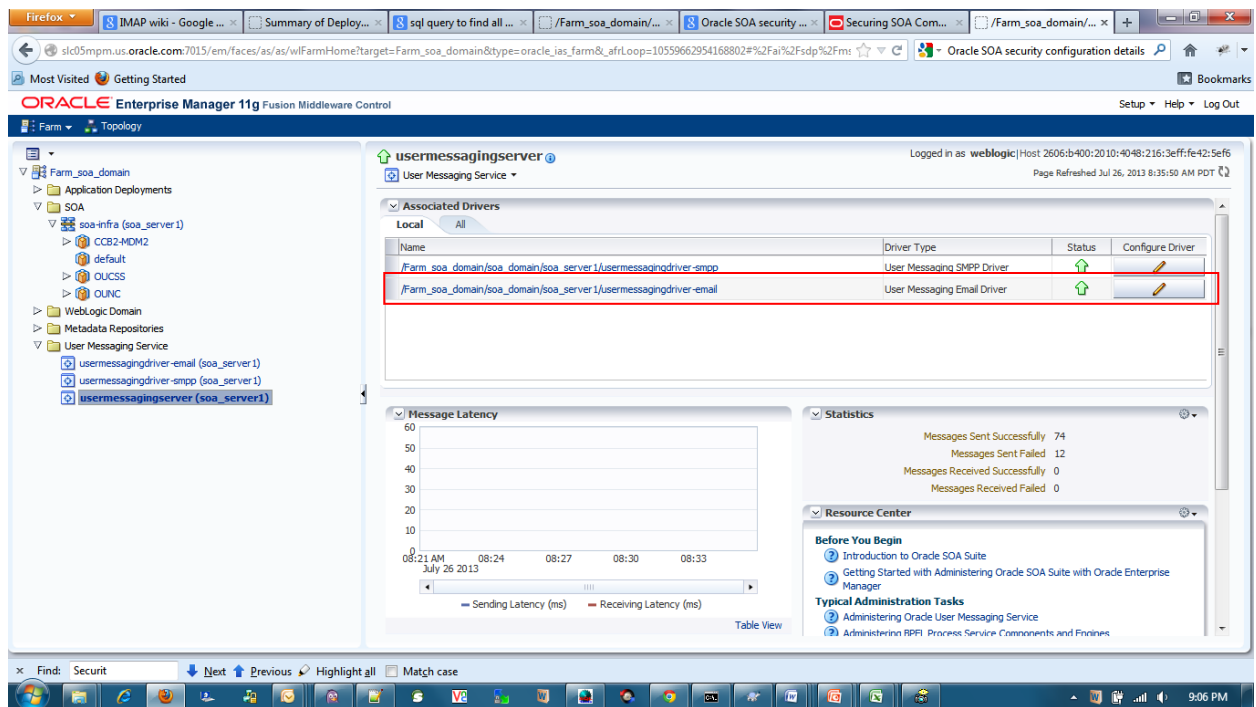
Click on the button adjacent to the usermessagingdriver-email and validate all the properties from that of the InstallProperties.xml mentioned in the Appendix are reflected in the below picture.
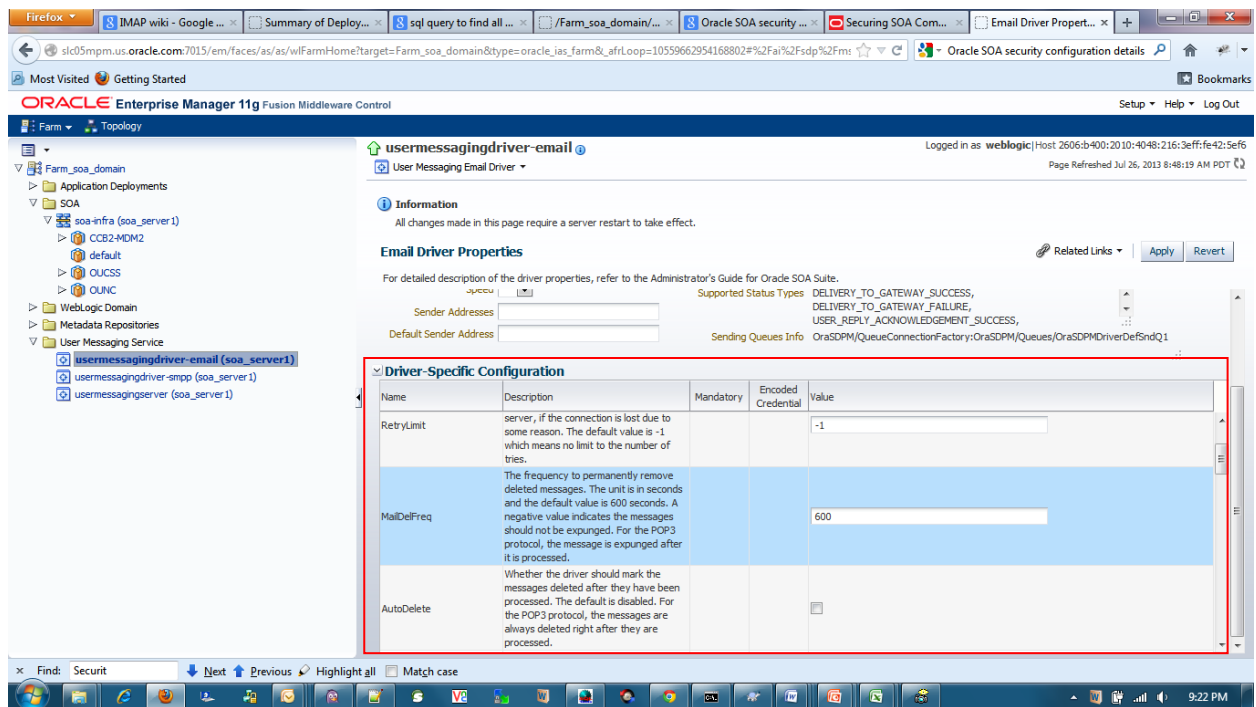
Data Source Configurations Checklist

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.

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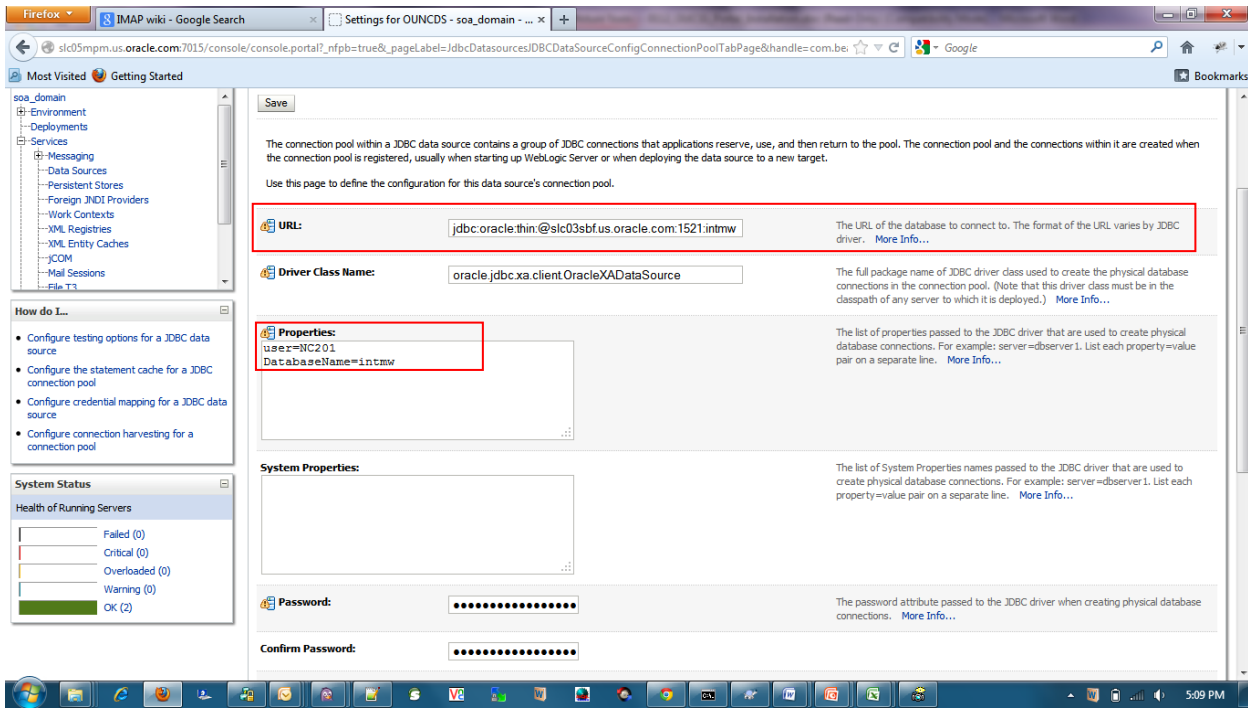
B Verify that the Error Handling Data Source **OUNCEHDS** is pointing to the correct Error Handling Database.

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.
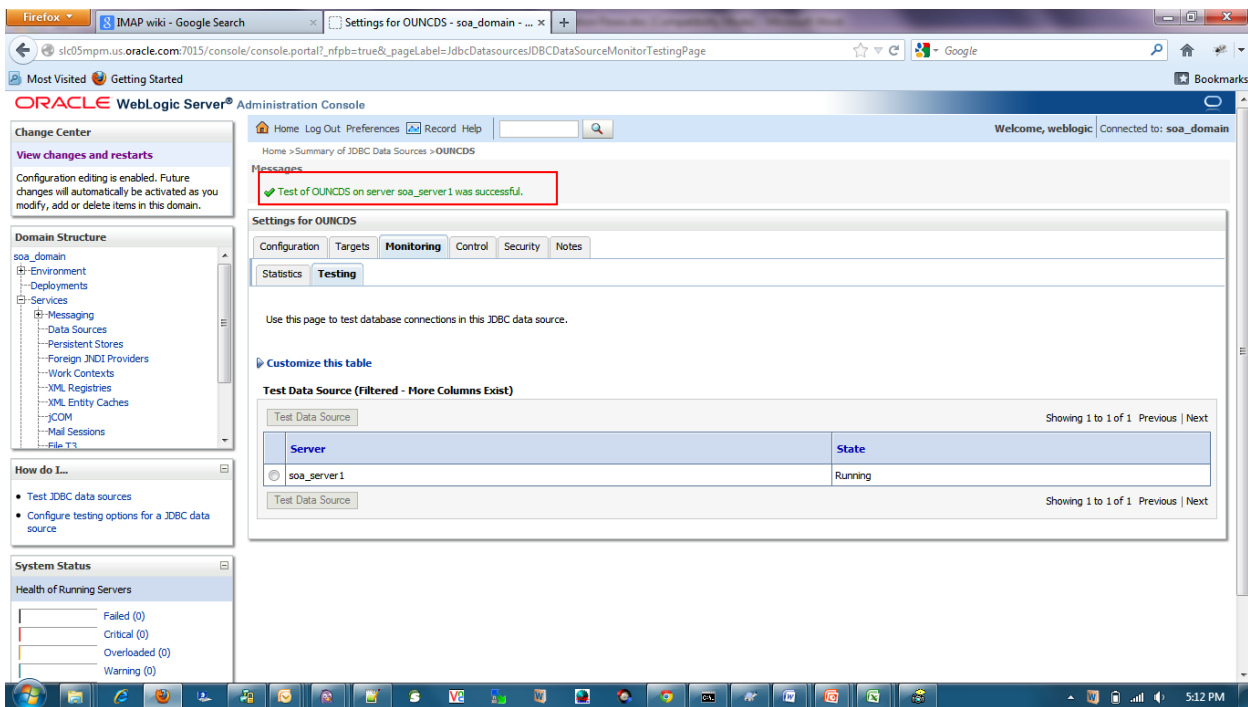
JMS Configurations

Check for the JMS Server Configuration by Navigating through **Services > Messages > JMS Servers.**
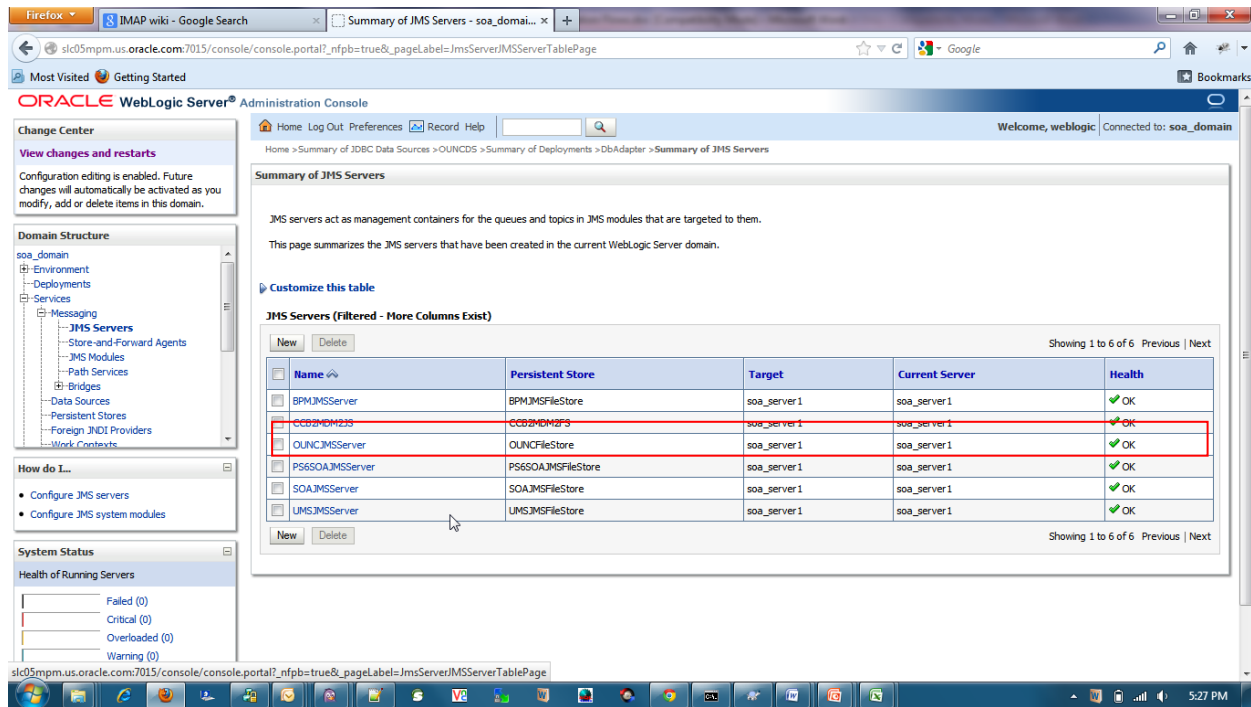
Ensure the JMS module **OUNCJMSModule** is created. Also check that the five JMS Queues and one topic shown in the following image are created.
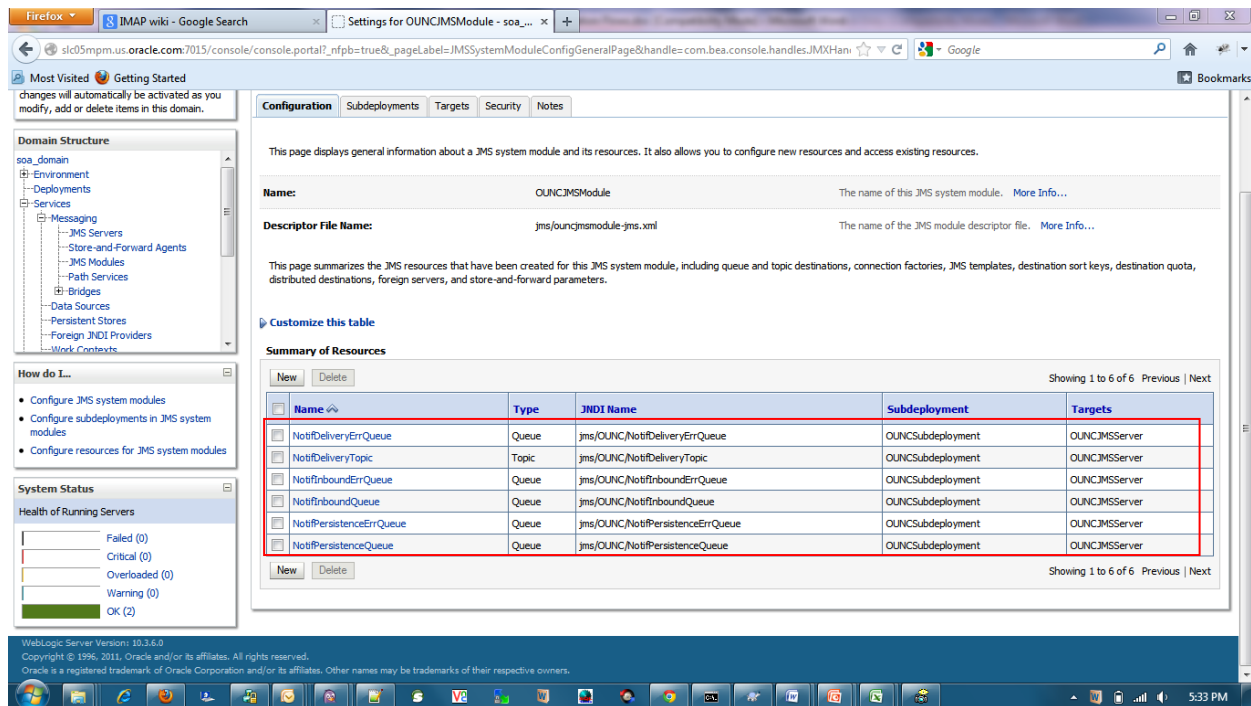
JMS Outbound Connection Pool

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.
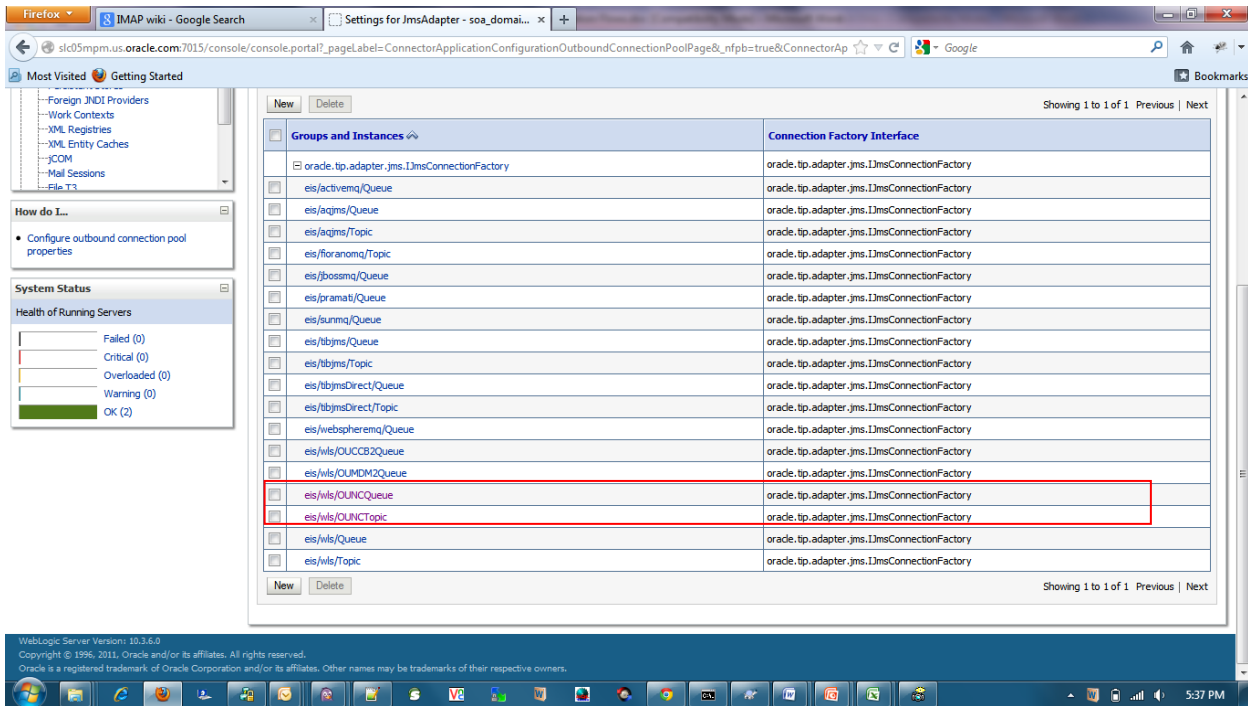
Click on the `eis/wls/OUNCTopic` to ensure all the appropriate property name and values are assigned to it.
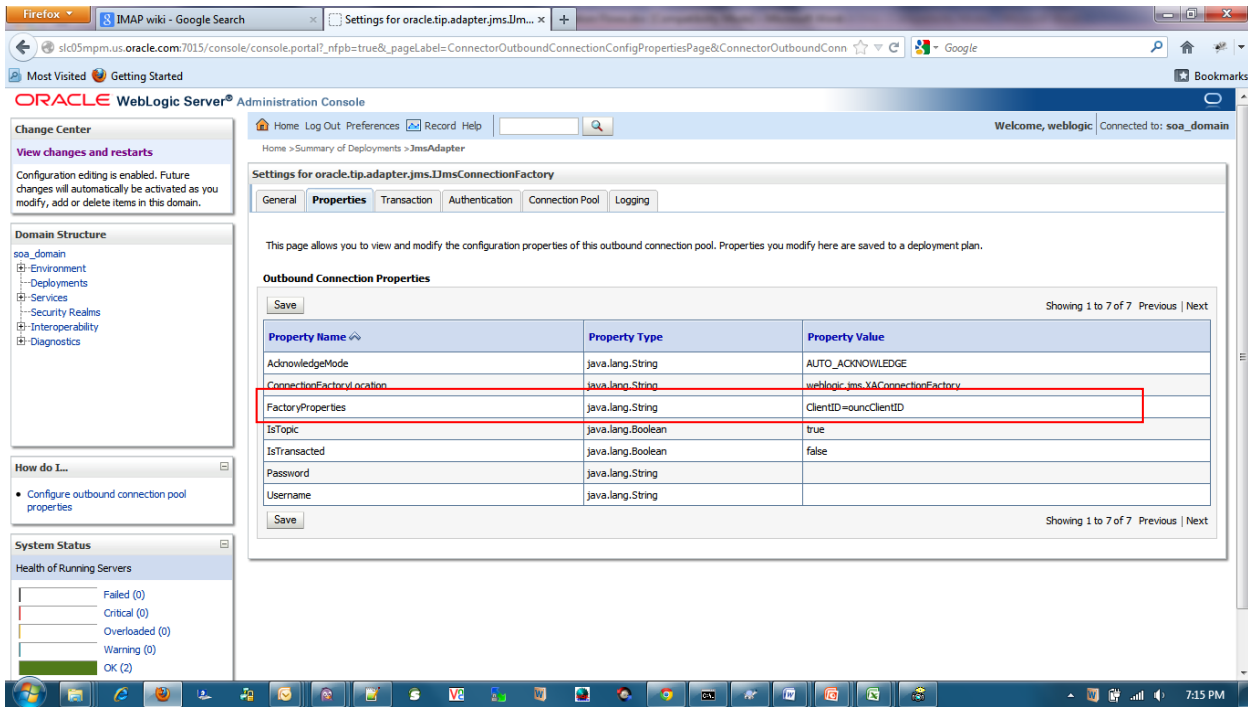
Ensure that the **ClientId=ouncClientId** is associated in the Outbound Connection pool **FactoryProperties**.

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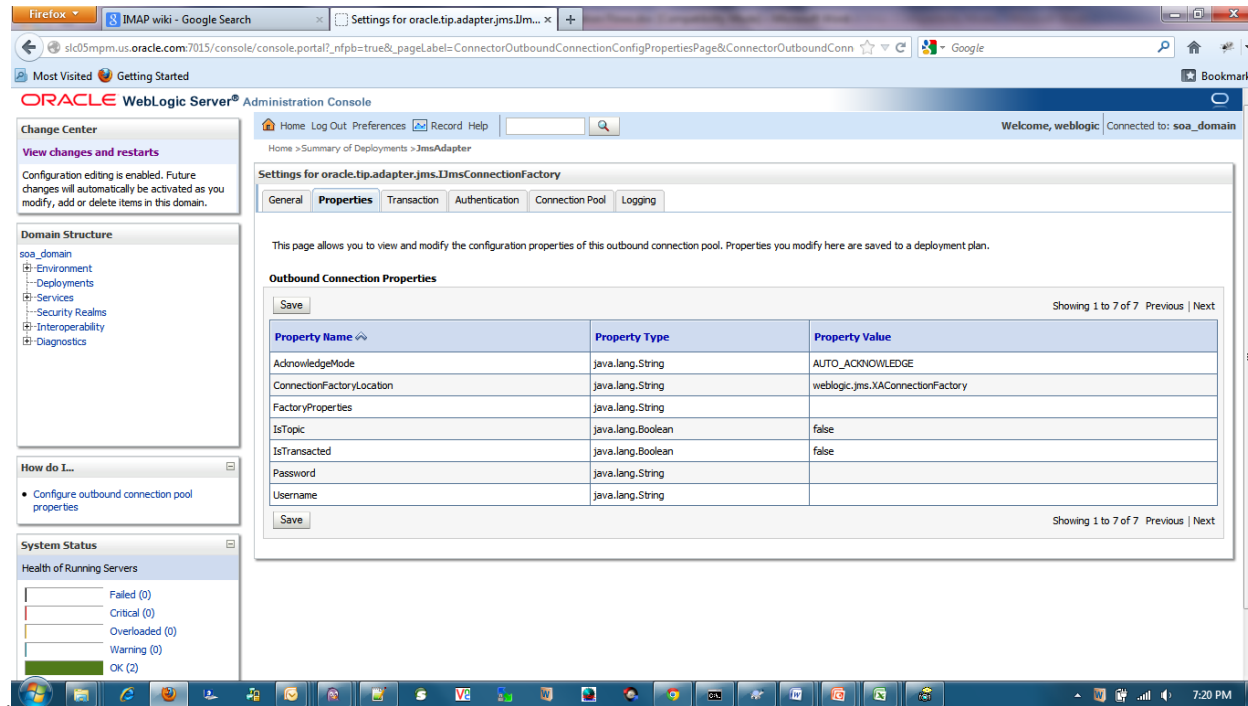
Database Outbound Connection Pool

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.

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.
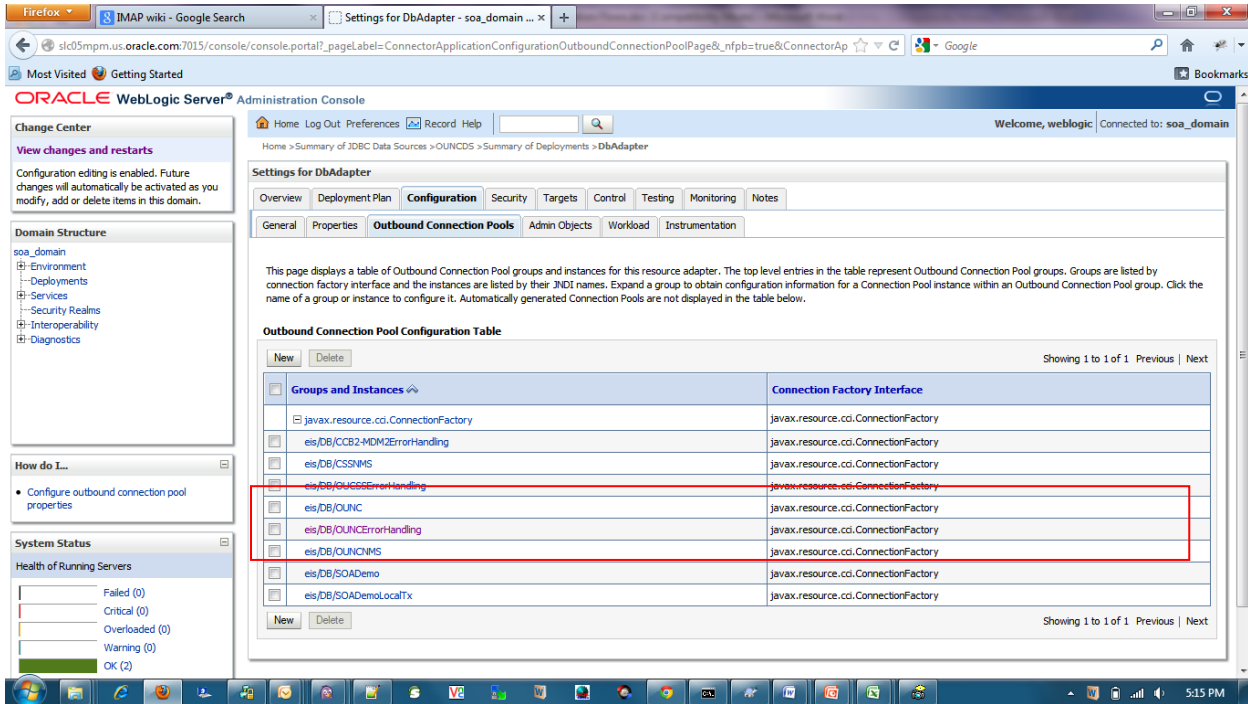
Verify that each database outbound connection instance is pointed to the correct database as shown in the following image (shown as **eis/DB/OUNC** , with the data source **jdbc/OUNCDS**).
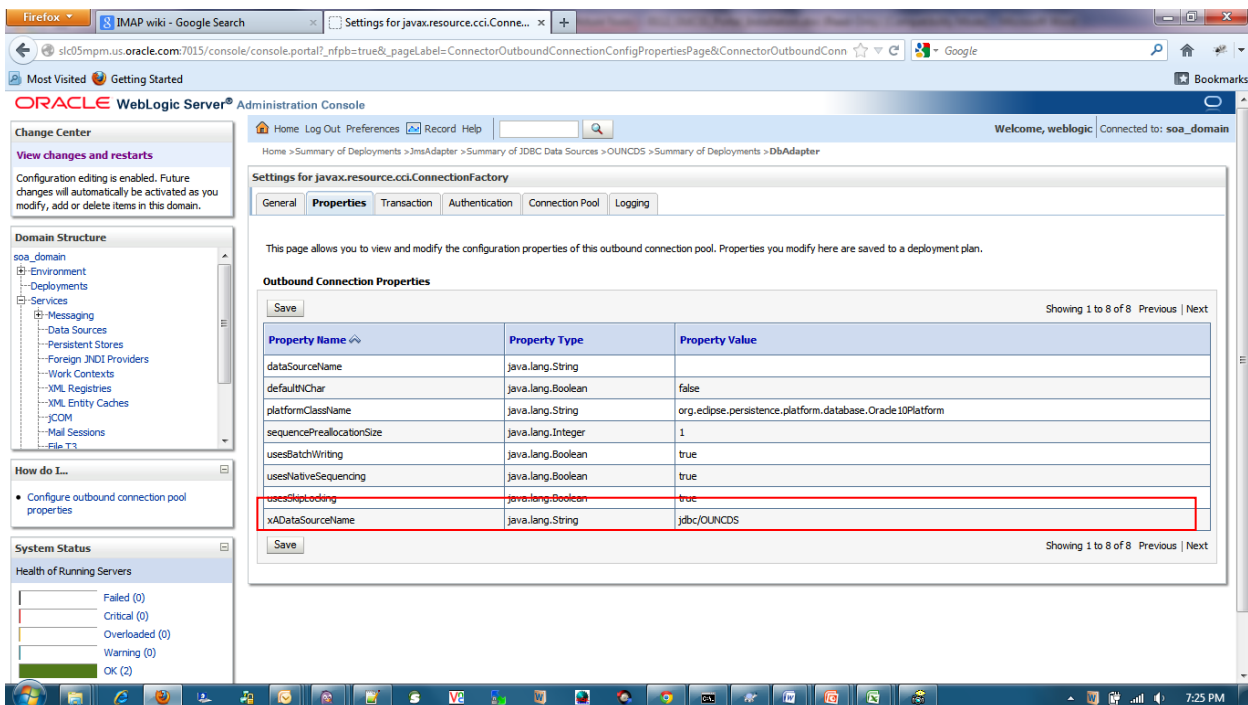
Similarly ensure that for all other Outbound Connection instances.

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

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:
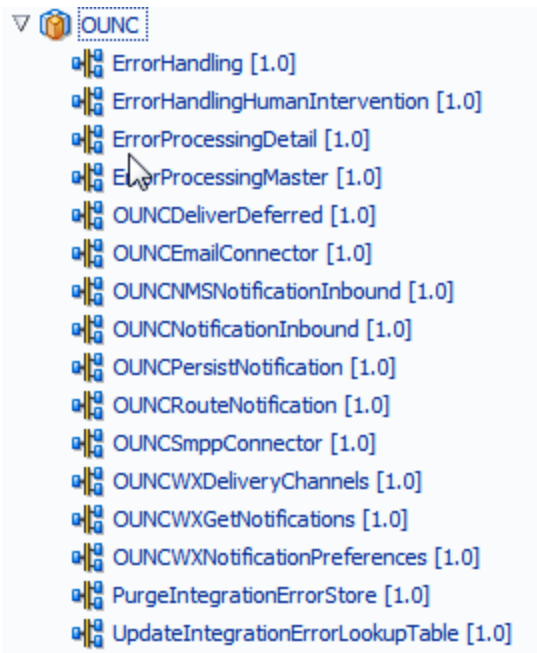
Verify Security Credentials from EM

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**
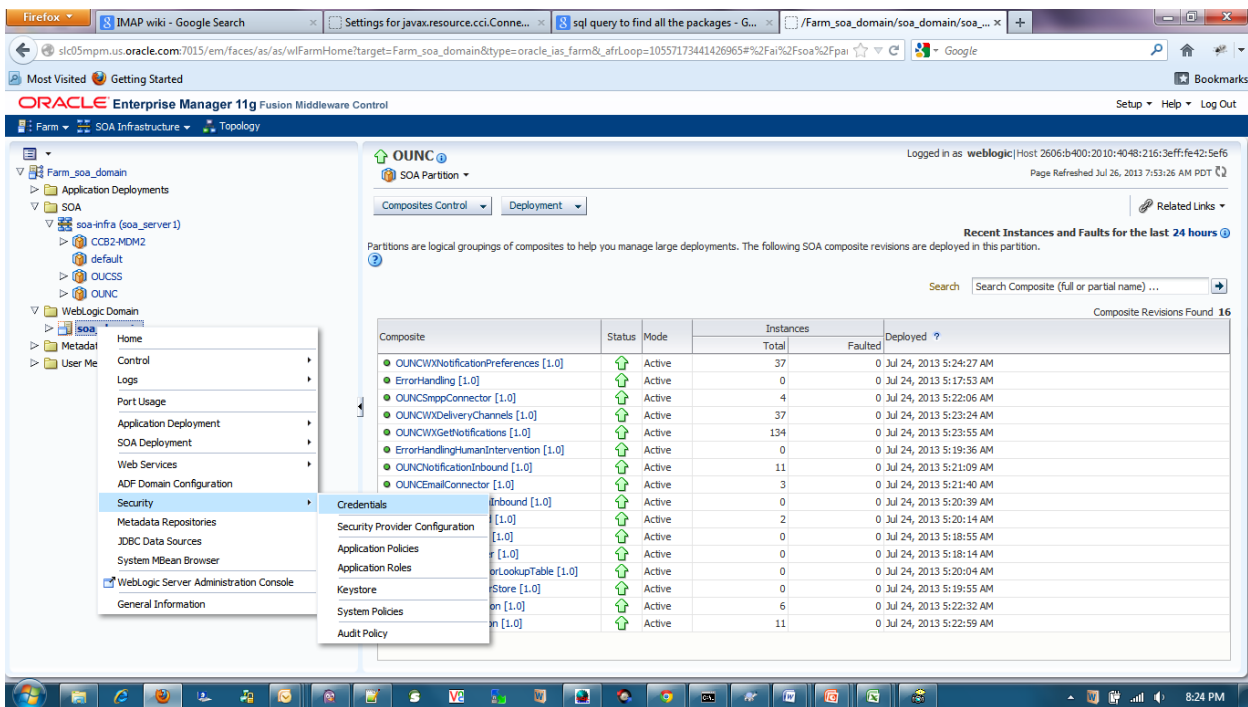
3 Ensure that the below entry is present in the list.
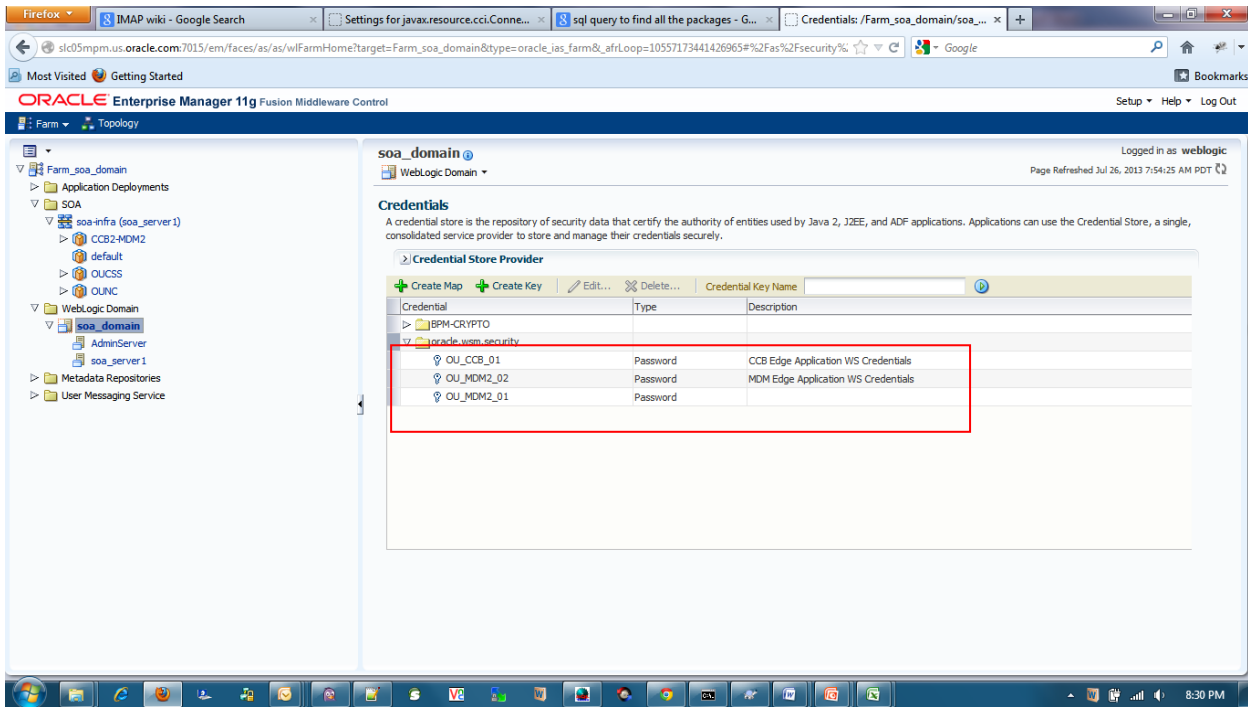
Verify Attached Policies from EM

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.
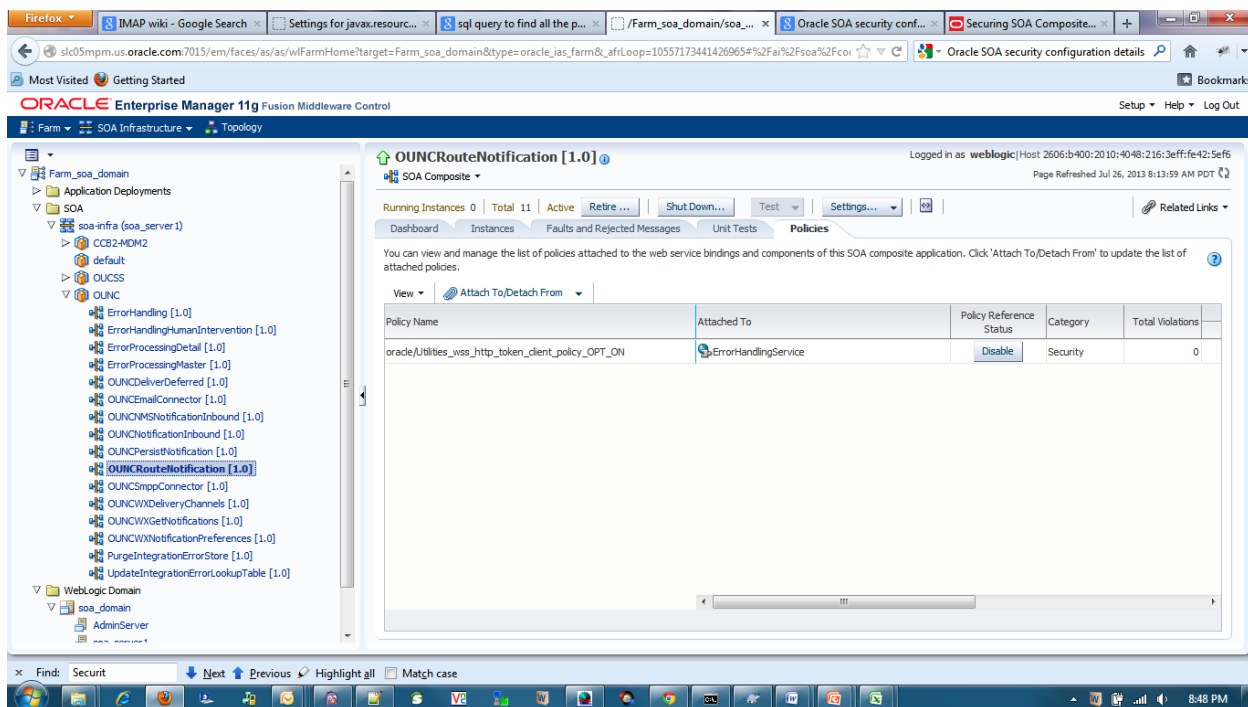
Uninstalling the OUNC Flows

1 Set the following environment variables:

Variable	Example
Unix/Linux and Windows OS	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware
WL_HOME	XXX/Middleware
PRODUCT_VERSION	2.1.0
PRODUCT_HOME	This is the integrated flows product installation home. Example: Unix/Linux: PRODUCT_HOME=/slot/oracle/ OUNC_Flows Windows: PRODUCT_HOME=D:\Oracle\ OUNC_Flows

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

On UNIX/Linux:

```
source "${WL_HOME}/wlserver_10.3/server/bin/setWLSEnv.sh"
```

On Windows:

```
cd %WL_HOME%\wlsserver_10.3\server\bin\
setWLSEnv.cmd
```

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 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.

1   Perform Steps 3–6 to set up the environment as described in the Installing OUCSS Portal section of this document.

2   Run the following command to uninstall the following OUCSS artifacts:

   • Security Credentials Map with CCB credentials.

   • OUCSS Mail Session

   • OUCSS Shared lib and extend.oucss.portal (11.1.1, 11.1.1.7.0), used to extend OUCSS Portal.

   • OUCSSPortal (v2.1.0) 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 delete OUCSS Schema and Data Source

   On Windows:

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

   On UNIX/Linux:

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

After running the command check unInstallDBPortal.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 BounceServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -l restartPortal1.log
```

On UNIX/Linux:

```
ant -f InstallBuild.xml BounceServers -
DapplicationPropertyNode=oucssApplication.oucssPortal -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l restartPortal1.log
```

After running the command check restartPortal1.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 deleteusersgroups.log
```

On UNIX/Linux

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

After running the command check deleteusersgroups.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:

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, 11.1.1.7.0)
- extend.oucss.portal (11.1.1, 11.1.1.*)
- OUCSSInBound (enterprise application)
- OUCSSPortal (v2.1.0) (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.

Chapter 7

Upgrading OUCSS

Upgrading the OUCSS Schema

This procedure describes the default method for upgrading OUCSS schema from previous versions. This is a prerequisite for upgrading OUCSS Portal and Mobile to 2.1.0

Note: The OUCSS schema can be upgraded from previous versions and custom modifications can be preserved if the following guidelines are followed.

Pre-Upgrade

1   Shutdown OUCSS Portal (v2.0.1) or the Portal current version.

2   Take a backup of OUCSS DB schema.

Upgrade

- Upgrade Database

- Install 2.1.0

- Migrating extensions and customizations

- Portal Resources

To Perform the OUCSS Schema Upgrade:

1   Perform Steps 1 – 6 to setup environment as described in Installing OUCSS Portal section of this document.

2   Run the property validation task.

   On Windows:

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

On UNIX/Linux:

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

After running the command check validateProperties.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 Run the schema upgrade task itself

On Windows:

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

On UNIX/Linux:

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

After running the command check DBTaskUpgrade.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 If CSS Mobile Run the schema upgrade task for Mobile related data as follows

On Windows:

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

On UNIX/Linux:

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

After running the command check MobileDBTaskUpgrade.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.

5 Verify that all the users in SS_USER table and users access to accounts in SS_USER_LOB_ACCESS_ROLE table is accurate.

Upgrade OUCSS Portal from 2.0.1

Install Portal

1 Start a new session to use the correct environment

2 Create a new WebLogic domain and Install JDeveloper PS6 (11.1.1.7.0). Creating a new WebLogic domain will help in migrating customizations easily.

3 Ensure that Custom Portal managed servers are up and running (AdminServer, WC_CustomPortal). To set up a 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 area on the Oracle Technology Network (OTN) web site (http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html).

Use the default MDS repository created by the Custom Portal template.

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.

5 Migrate users in Identity Store or from the 2.0.1 to 2.1.0 domain.

6 Install OUCSS Portal in the new WebLogic domain as described in Step 9 in the Installing OUCSS Portal section using a new session.

7 Verify the installation as described in the Post-Installation Checklist section.

Migrate Customizations for Base Task Flows

To migrate customizations of base Task flows from 2.0.1 to 2.1.0 and export customizations from the 2.0.1 domain and import them to the 2.1.0 domain., follow the steps in the "Customization and Extension" section of the *Oracle Utilities Customer Self Service Implementation Guide*.

Migrate Custom Task Flows From 2.0.1 to 2.1.0

To migrate custom Taskflows from 2.0.1 to 2.1.0, redeploy the extend.oucss.portal.war (used with 2.0.1) to the 2.1.0 managed servers. For more information see the 'Extending the OUCSS Portal' section of *Customizing and Extending the OUCSS Custom Portal 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).

Migrate Custom Page Templates From 2.0.1 to 2.1.0

To migrate custom page templates from 2.0.1 to 2.1.0, review the sections "Exporting an Existing Page Template" and "Importing a Page Template" of the *Customizing and Extending the OUCSS Custom Portal 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).

Migrate Custom Navigation Model From 2.0.1 to 2.1.0

To migrate custom page templates from 2.0.1 to 2.1.0, review the sections "Exporting an Existing Navigation Model" and "Importing a Navigation Model" in the *Customizing and Extending the OUCSS Custom Portal 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)..

The navigation model has changed from 2.0.1 to 2.1.0, requiring that customizations to the Navigation model be redone in this release. Review the section "Customizing the Navigation Model" of the *OUCSS Customizing and Extending the OUCSS Custom Portal 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).

Upgrade OUCSS Mobile From 2.0.1

Pre-Upgrade Steps

1 Take a back-up of all application specific metadata.

2 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.

Install Mobile

1 Update the <PRODUCT_HOME>/config/InstallProperties.xml file with 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). Provide database information of the OUCSS DB schema upgraded to 2.1.0 and the new WebLogic domain and server created for 2.1.0 in the InstallProperties.xml.

2 Install OUCSS Mobile in the new WebLogic domain as described in the <u>Installing the OUCSS Mobile Application</u> section later in this document.

3 Verify the installation as described in the <u>Post-Installation Checklist</u> section.

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 WebCenter or non-WebCenter-based 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 Ensure that Oracle WebLogic 10.3.6 servers are running (AdminServer, WC_Portlet servers are up and running).

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).

   After setup, ensure that the server is in a running state.

3 Run the RCU provided by the Oracle WebCenter installation and create a separate MDS schema in the database for the Oracle Utilities Customer Self Service application.

   Important: 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.

4 Deploy the Offer Service EAR (optional).

   Note: If another Offer Service is used instead of the provided web service, the connection information in *InstallProperties.xml* file must be adjusted accordingly.

Deploying OUCSS Components as Portlets into an Existing Portal Application

1 Perform Steps 1 to 9 to setup environment as described in <u>Installing OUCSS Portal</u> section of this document.

2 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 installPortlet.log
```

On UNIX/Linux:

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

After running the command check *installPortlet.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 <u>Post-Installation Checklist</u> section of Chapter 2 of this document.

Verify OUCSS Application Deployment

1 Log in into the Oracle Enterprise Manager console at `http://<WLSAdminHost>:<WLSAdminServerPort>/em` with wlsadmin/wlspasswd.

2 Expand **Application Deployments** and verify the presence of OUCSS Producer application **OUCSSPortletsProducer** (mandatory) and **OUCSSInBoundServices** (optional).
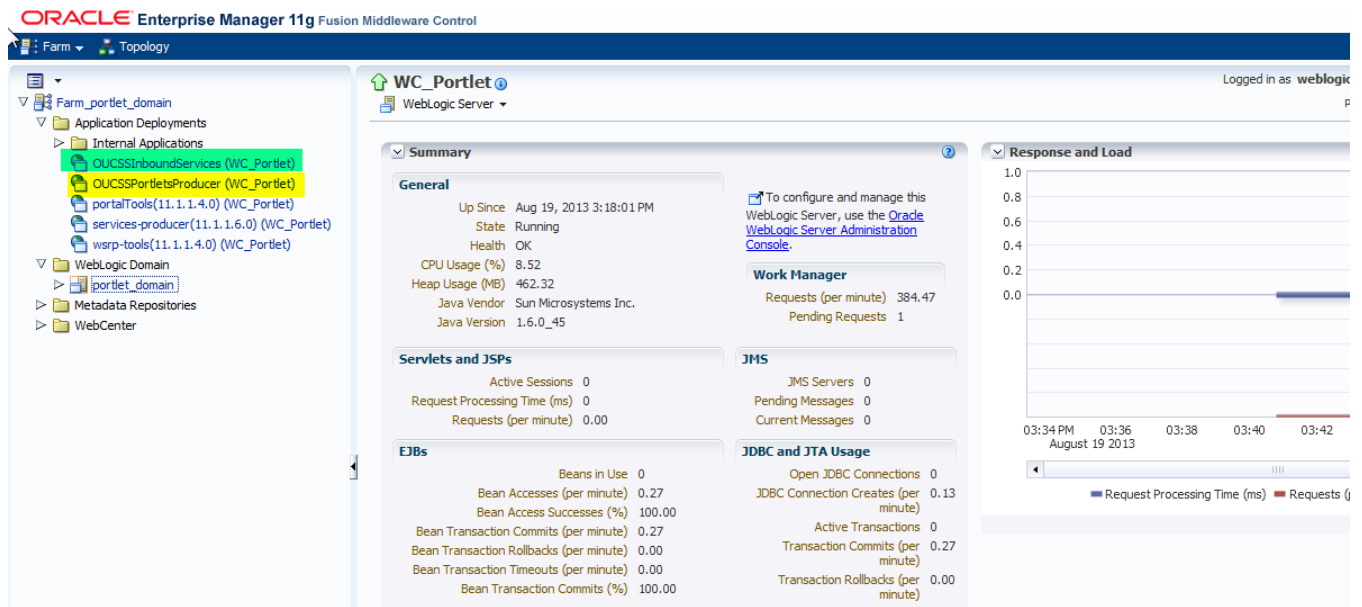
Verify Tokenization of the CCB Edge Application *wsdl*

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` with wlsadminuser/wlsadminpasswd.

2 Click **Application Deployments**, select OUCSSPortletsProducer then right-click and select **ADF > Configure ADF Connections** from the context menu.
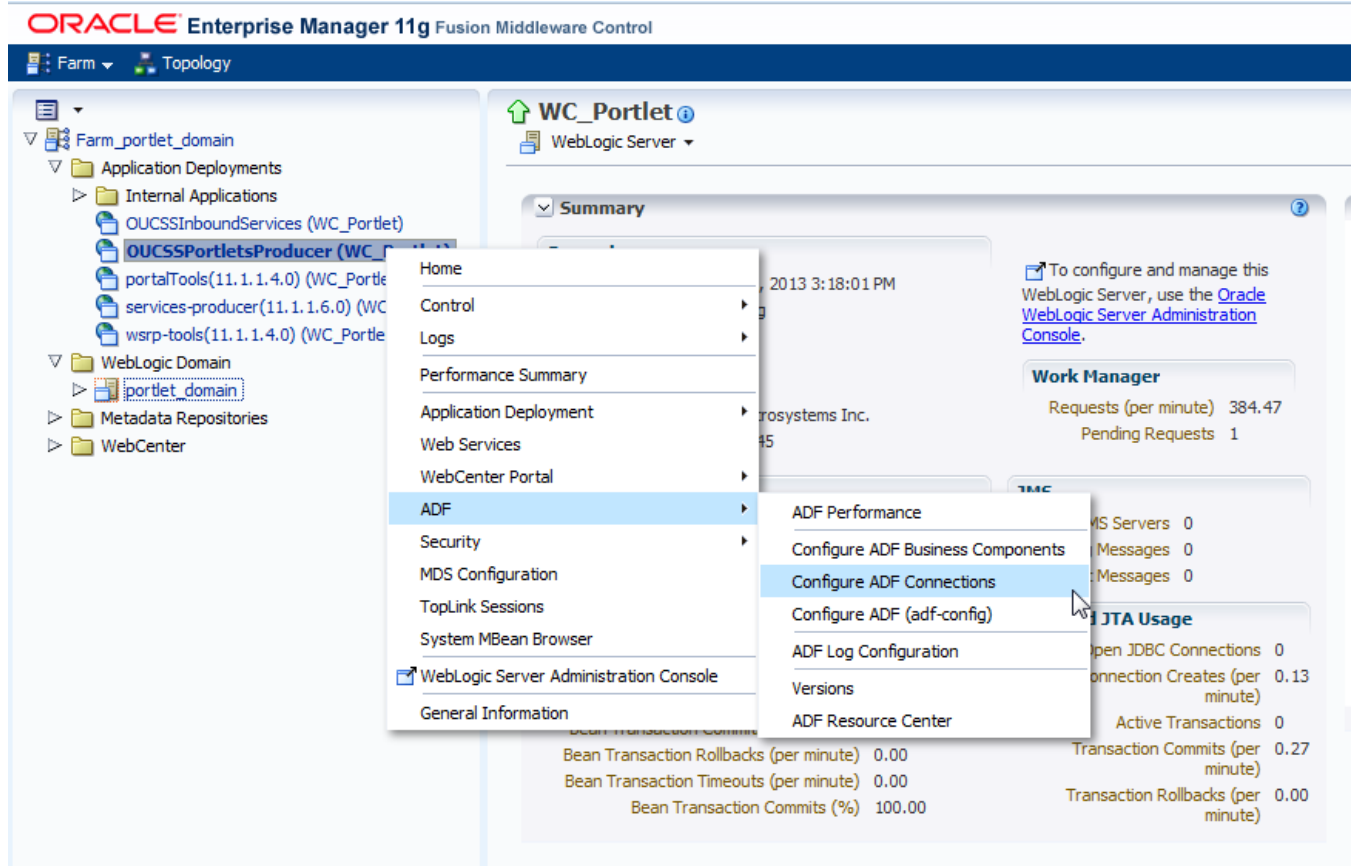
3   Under **WebService Connections**, each connection name should show a corresponding CCB or SOA Integration WSDL URL.

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/WXUsageDetail?`) and WSDL opens, then tokenization has been completed correctly.

5   Repeat this verification procedure for all remaining connections.
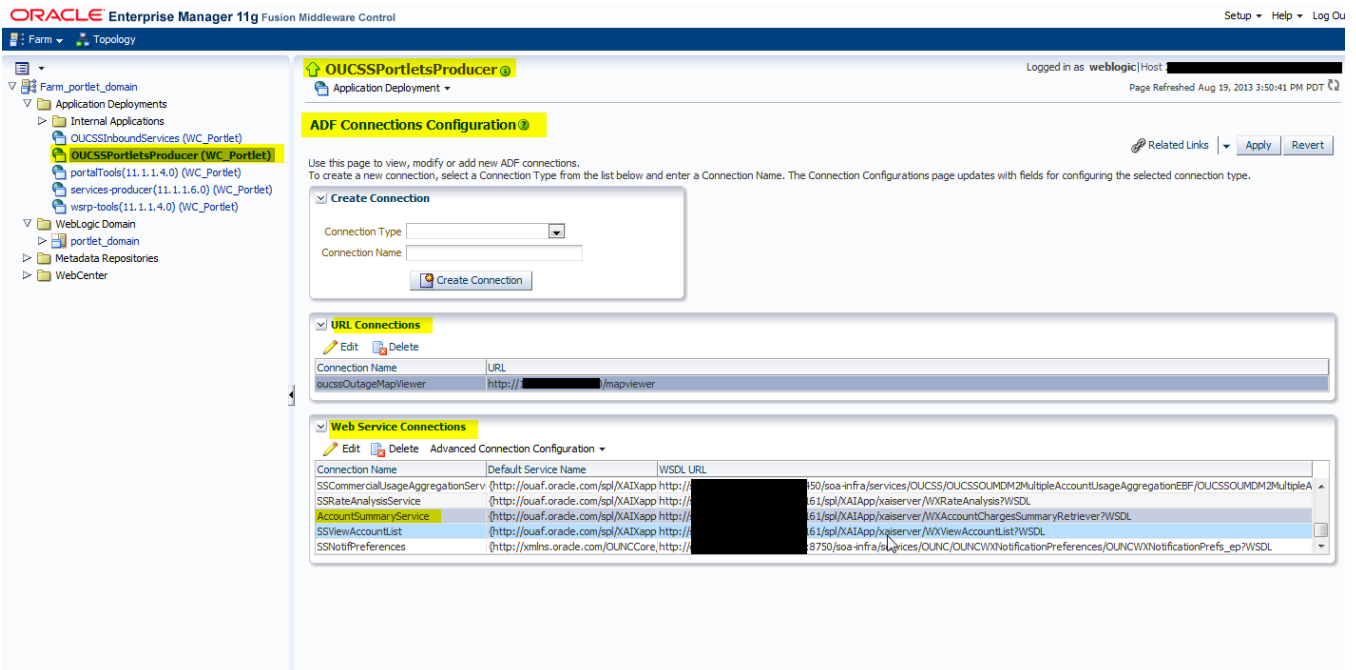
Securing Portlets Producer WSDL

Portlets Producer 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 Go to <<Java_Home>>/bin and run the following command to generate a keystore. The java key store (jks) will be used to authenticate and encrypt the messages.

```
keytool -genkeypair -keyalg RSA -alias orakey -keypass welcome1 -keystore default-keystore.jks -storepass welcome1 -validity 3600
```

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.

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". If the above generated jks was used, then leave the default options, else, update the keys with the details from the jks used.

6 Connect to WLST and run the following commands to create csf-key for WS Security policy attached above. Update the commands with suitable user and password to match the jks used.

```
createCred(map='oracle.wsm.security', key='keystore-csf-key', user='owsm', password='welcome1')
createCred(map='oracle.wsm.security', key='sign-csf-key', user='orakey', password='welcome1')
createCred(map='oracle.wsm.security', key='enc-csf-key', user='orakey', password='welcome1')
```

7   Restart and the producer application 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_proectiion_client_policy".

3   Choose "orakey" as the Recipient Alias.

4   Choose Default User: OUCSSPublicUser (OUCSSPublicUser is added in Portlet Application to allow access to Public portlets such as register, forget password, etc).

5   Copy the default-keystore.jks (created above) into <<consumer_domain_home>>/config/fmwconfig folder.

6   Connect to WLST of the consumer and run the following to create csf-key for client Security policy attached above. Update the user and password depending on the jks used.

```
createCred(map='oracle.wsm.security', key='keystore-csf-key', user='owsm',
password='welcome1')
createCred(map='oracle.wsm.security', key='sign-csf-key', user='orakey',
password='welcome1')
createCred(map='oracle.wsm.security', key='enc-csf-key', user='orakey',
password='welcome1')
```

7   Restart Consumer App and test the portlets.

Uninstalling OUCSS Portlets Producer Application

Important: 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:

Important: 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 new values in *InstallProperties.xml* during undeployment; the file should remain same as it was during installation.

On Windows:

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

On UNIX/Linux:

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

After running the command check *uninstallProducer.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 **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 deleteFromLDAP.log
```

On UNIX/Linux:

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

After running the command check *deleteFromLDAP.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.

When the process completes, log in to the Oracle Enterprise Manager console and check that the OUCSS deployments have been removed (under **Application Deployments**), 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 11.1.1.7.1 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 9*i* or later).

3   Oracle Client (Release 9*i* or later), if you need to use JDBC Oracle Call Interface (OCI) features. Note that in general, the JDBC thin driver is recommended for use with MapViewer, in which case the Oracle Client is not required.

4   Java SDK 1.6 or later.

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

Installing on WebLogic (Recommended)

1   Download Oracle MapViewer 11.1.1.7.1 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. 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).

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).

Verifying That the Deployment Was Successful

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

```
http://<<host>>:<<port>>/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_1_B130516
```

Configuring MapViewer

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>>/mapviwer/mvlogon.jsp* with WebLogic domain admin credentials.

5   Click on "Configuration" link on the left menu.

6   Scroll to the bottom of the Text-Area on the right and add the data source.

7   Prefix '!' to the password to allow MapViewer to encode it when the data source is loaded first.

8   MapViewer configuration also allows configuring other parameters for fine-tuning. Use the same screen to change the configuration as it suits the requirements.

9   After configuring Data and Data Source, use Oracle Map Builder (can be downloaded from OTN), to configure BASE_MAPS, TILES, STYLES, THEMES that are required to render maps.

Creating 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>/OUCSSPortal` 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**.

Note:
Refer the MapViewer User Guide 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 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>
```

```
        <!-- If isservicename is true then the sid mentioned is considered as
servicename instead of sid -->
        <isservicename>false</isservicename>
  </database>
     </mdsConfig>
...
```

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).

    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
	isservicename		If this flag is set to true then SID is treated as Servicename while creating the Datasource
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
		isservicename	If this flag is set to true then SID is treated as Servicename while creating the Datasource

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_2.1.0</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>
   <!-- If isservicename is true then sid mentioned is considered as servicename instead
of sid -->
   <isservicename>true</isservicename>
        <!-- SYSDBA Credential e.g. sys or system user. -->
        <sysdba>
          <userName>system</userName>
    <password>dbsystempasswd</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>2.1.0</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>
        <!-- If isservicename is true then sid mentioned is considered as servicename
instead of sid -->
        <isservicename>true</isservicename>
  </database>
    </mdsConfig>
  </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.

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

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

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	http://elocation.oracle.com/mapviewer
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.	http://elocation.oracle.com/elocation
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
<?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>
       <!-- If isservicename is true then sid mentioned is considered as servicename instead
of sid -->
       <isservicename>true</isservicename>
        <!-- SYSDBA Credential e.g. sys or system user. -->
        <sysdba>
          <userName>system</userName>
         <password>dbsystempasswd</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>2.1.0</installedVersion>
      </database>
      <!-- MDS configuration for Portal Application -->
      <mdsConfig>
        <repositoryName>mds-CustomPortalDS</repositoryName>
        <partitionName>OUCSSPortal</partitionName>
        <repositoryType>DB</repositoryType>
        <jndi>jdbc/mds/CustomPortalDS</jndi>
       <database>
              <userName>CSSMB_MDS</userName>
               <password>manager</password>
              <hostName>dbserver.oracle.com</hostName>
              <portNumber>1521</portNumber>
              <sid>OUCSSPORTAL</sid>
              <isservicename>true</isservicename>
       </database>
      </mdsConfig>
    </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_2.1.0</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>
      <!-- If isservicename is true then sid mentioned is considered as servicename instead
of sid -->
      <isservicename>true</isservicename>
        <!-- SYSDBA Credential e.g. sys or system user. -->
        <sysdba>
          <userName>system</userName>
         <password>dbsystempasswd</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>2.1.0</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>
              <!-- If isservicename is true then sid mentioned is considered as servicename
instead of sid -->
              <isservicename>true</isservicename>
       </database>
      </mdsConfig>
    </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>
     <!-- If isservicename is true then the sid mentioned is considered as servicename
instead of sid -->
      <isservicename>true</isservicename>
      <sysdba>
        <userName>system</userName>
       <password>dbsystempasswd</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>2.1.0</installedVersion>
    </database>
    <!-- MDS configuration for Inbound -->
    <mdsConfig>
      <repositoryName>mds-CustomPortalDS</repositoryName>
      <partitionName>OUCSSInbound</partitionName>
      <repositoryType>DB</repositoryType>
      <jndi>jdbc/mds/CustomPortalDS</jndi>
     <database>
            <userName>CSSMB_MDS</userName>
            <password>dbpasswd</password>
            <hostName>dbserver.oracle.com</hostName>
            <portNumber>1521</portNumber>
            <sid>OUCSSPORTAL</sid>
            <isservicename>true</isservicename>
     </database>
    </mdsConfig>
  </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>
        <!-- If isservicename is true then the sid mentioned is considered as servicename
instead of sid -->
        <isservicename>true</isservicename>
         <!-- SYSDBA Credential e.g. sys or system user. -->
         <sysdba>
           <userName>system</userName>
          <password>dbsystempasswd</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>2.1.0</installedVersion>
       </database>
       <!-- MDS configuration for PortletProducer -->
       <mdsConfig>
         <repositoryName>mds-CustomPortalDS</repositoryName>
         <partitionName>OUCSSPortletProducer</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>
             <!-- If isservicename is true then sid mentioned is considered as servicename
instead of sid -->
             <isservicename>true</isservicename>
        </database>
       </mdsConfig>
    </oucssPortletProducer>
  </oucssApplication>
  <oucssConnection>
    <!-- CCB webservice connection details -->
    <OUCCB>
       <enabled>true</enabled>
```
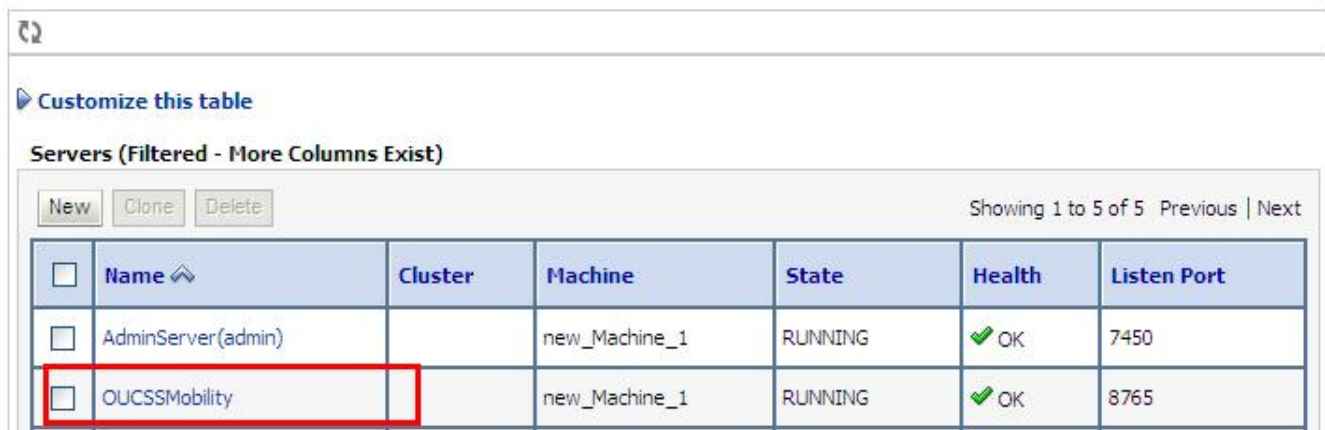
```
          <hostName>ccbhostname.oracle.com</hostName>
          <portNumber>7161</portNumber>
          <protocol>http</protocol>
          <context>spl</context>
           <security>
                 <userName>SYSUSER</userName>
                 <password>sysuser00</password>
                 <csf-key>OUCSS_XAI_BASIC_KEY</csf-key>
          </security>
  </OUCCB>
  <!-- NMS webservice connection details -->
  <OUNMS>
    <enabled>true</enabled>
    <hostName>soahostname.us.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.us.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.us.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>
  <!-- Configutation for Optional OUCSS-BPEL-CCB servers.
       If enabled, select CCB connections will be configured using the below details.-->
  <OUCSS_BPEL_CCB>
    <enabled>false</enabled>
    <hostName> soahostname.us.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>
```

```
    <!-- Mail Server connection details -->
    <mailServer>
      <enabled>true</enabled>
      <hostName>internal-mail-router.oracle.com</hostName>
      <portNumber>25</portNumber>
      <protocol>smtp</protocol>
      <fromAddress>wssAdmin@oracle.com</fromAddress>
    </mailServer>
    <!-- MapViewer connection details -->
    <mapViewer>
        <enabled>true</enabled>
        <hostName>xx.xx.xx.xxx</hostName>
        <portNumber>7650</portNumber>
        <protocol>http</protocol>
      <context>mapviewer</context>
        <basemap>NAVTEQ_SF.NAVTEQ_WORLD_MAP</basemap>
        <colorTheme>ZIP5</colorTheme>
        <colorThemeLocColumn>POSTALCODE</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/application Name	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
/oucssInstall/oucssApplication/oucssPortal/adminServer/domainName	Admin server Domain Name of oucssPortal	portal_domain
/oucssInstall/oucssApplication/oucssPortal/adminServer/domainLocation	Admin Server Domain Location of oucssPortal	/XXX/OUCSS210/Middleware/user_projects/domains/portal_domain

/oucssInstall/oucssApplication/oucssPortal/adminServer/realmName	myrealm

/oucssInstall/oucssApplication/oucssPortal/adminServer/security/userName	Admin user name to connect to Admin server	weblogic
/oucssInstall/oucssApplication/oucssPortal/adminServer/security/password	Admin user password to connect to Admin server	**WLSAdminPasswd**
/oucssInstall/oucssApplication/oucssPortal/deployTarget/clusterOrServer	Deployment Target Type for CSS Portal	Cluster (or) Server
/oucssInstall/oucssApplication/oucssPortal/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting CSS.	WC_CustomPortal
/oucssInstall/oucssApplication/oucssPortal/deployTarget/hostName	URL for the Cluster/Server hosting CSS.This will host the OUCSS Portal EAR file	portalhostname.oracle.com
/oucssInstall/oucssApplication/oucssPortal/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS.	9000
/oucssInstall/oucssApplication/oucssPortal/database/createDB	Flag to indicate if CSS Schema should be created	True/False
/oucssInstall/oucssApplication/oucssPortal/database/hostName	Hostname to connect to CSS Database	Dbserver.oracle.com
/oucssInstall/oucssApplication/oucssPortal/database/portNumber	Port number to connect to CSS Database	1521
/oucssInstall/oucssApplication/oucssPortal/database/sid	SID/service name to connect to DB	oucssdb
/oucssInstall/oucssApplication/oucssPortal/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True/False
/oucssInstall/oucssApplication/oucssPortal/database/sysdba/userName	Sys user to connect to CSS Database	System Note : If using sys user, then use "sys as sysdba".
/oucssInstall/oucssApplication/oucssPortal/database/sysdba/password	Sys user password	Db password
/oucssInstall/oucssApplication/oucssPortal/database/schema/userName	CSS DB username/schema which will host CSS specific DB objects	oucssuser
/oucssInstall/oucssApplication/oucssPortal/database/schema/password	Password for CSS DB username/schema	Dbpass
/oucssInstall/oucssApplication/oucssPortal/database/createDataSource	Currently this flag is not used.Leave this blank	
/oucssInstall/oucssApplication/oucssPortal/database/dataSourceName	OUCSSDS is default Datasource Name used by the application.Datasource Name should be OUCSSDS	OUCSSDS
/oucssInstall/oucssApplication/oucssPortal/database/jndi	This should be as jdbc/OUCSSDS	**jdbc/OUCSSDS**
/oucssInstall/oucssApplication/oucssPortal/database/installedVersion	Which version of OUCSS Portal Database To be installed	**2.1.0**

Appendix D ▪ Installation Properties

/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ repositoryName	Name of the MDS repository	mds-CustomPortalDS
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ partitionName	MDS Partition name of oucssPortal	OUCSSPortal
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ repositoryType	Repository type	**DB** Only DB type MDS is supported
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ jndi	JNDI name for WebLogic Datasource for Portal MDS	jdbc/mds/CustomPortalDS
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ database/userName	Username of schema hosting MDS for CSS application.	OUCSSCUST_MDS
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ database/password	Password to connect to schema	
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ database/hostName	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ database/portNumber	Portnumber to connect to DB hosting MDS	Dbportno
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ database/sid	SID/service name to connect to schema	WC1
/oucssInstall/oucssApplication/oucssPortal/mdsConfig/ database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True/False
/oucssInstall/oucssApplication/oucssMobile/deploy	Set to true if OUCSS Mobile should be deployed	true
/oucssInstall/oucssApplication/oucssMobile/application Name	Application name to be used to install OUCSS Mobile	OUCSSMobile
/oucssInstall/oucssApplication/oucssMobile/adminServ er/hostName	Hostname of Admin server of WebLogic domain hosting CSS Mobile application	webcenterhostname.oracle.com
/oucssInstall/oucssApplication/oucssMobile/adminServ er/portNumber	Port Number of Admin server of WebLogic domain hosting CSS Mobile application	7001
/oucssInstall/oucssApplication/oucssMobile/adminServ er/serverName	Admin server name of WebLogic domain hosting CSS Mobile	AdminServer
/oucssInstall/oucssApplication/oucssMobile/adminServ er/domainName	Admin Server Domain Name	portal_domain
/oucssInstall/oucssApplication/oucssMobile/adminServ er/domainLocation	Admin Server Domain Location	/XXX/OUCSS210/Middleware/user_pro jects/domains/portal_domain
/oucssInstall/oucssApplication/oucssMobile/adminServ er/realmName	WebLogic RealName where You need to create OUCSS Users and Groups	myrealm
/oucssInstall/oucssApplication/oucssMobile/adminServ er/security/userName	Admin user to connect to Admin server	weblogic

/oucssInstall/oucssApplication/oucssMobile/adminServer/security/password	Admin user password to connect to Admin server	**WLSAdminPasswd**
/oucssInstall/oucssApplication/oucssMobile/deployTarget/clusterOrServer	Deployment Target Type for CSS Mobile	Cluster (or) Server
/oucssInstall/oucssApplication/oucssMobile/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting CSS Mobile.	OUCSSMobility
/oucssInstall/oucssApplication/oucssMobile/deployTarget/hostName	URL for the Cluster/Server hosting CSS Mobile. This will host the OUCSS Mobile EAR file	mobilehostname.oracle.com
/oucssInstall/oucssApplication/oucssMobile/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS Mobile.	9000
/oucssInstall/oucssApplication/oucssMobile/database/createDB	Flag to indicate if Mobile related data should be created	True /False
/oucssInstall/oucssApplication/oucssMobile/database/hostName	Hostname to connect to CSS Database. Can be same as for CSS Portal	Dbserver.oracle.com
/oucssInstall/oucssApplication/oucssMobile/database/portNumber	Port number to connect to CSS Database. Can be same as for CSS Portal	1521
/oucssInstall/oucssApplication/oucssMobile/database/sid	SID/service name to connect to DB. Can be same as for CSS Portal	oucssdb
/oucssInstall/oucssApplication/oucssMobile/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True /False
/oucssInstall/oucssApplication/oucssMobile/database/sysdba/userName	Sys user to connect to CSS Database. Can be same as for CSS Portal	System Note : If using sys user, then use "sys as sysdba".
/oucssInstall/oucssApplication/oucssMobile/database/sysdba/password	Sys user password. Can be same as for CSS Portal	**Dbsystempass**
/oucssInstall/oucssApplication/oucssMobile/database/schema/userName	CSS DB username/schema which will host CSS specific DB objects. Can be same as for CSS Portal	oucssuser
/oucssInstall/oucssApplication/oucssMobile/database/schema/password	Password for CSS DB username/schema. Can be same as for CSS Portal	Dbpass
/oucssInstall/oucssApplication/oucssMobile/database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssInstall/oucssApplication/oucssMobile/database/dataSourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS
/oucssInstall/oucssApplication/oucssMobile/database/jndi	This should be as jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssInstall/oucssApplication/oucssMobile/database/installedVersion	Installed version of Mobile database	**2.1.0**

/oucssInstall/oucssApplication/oucssMobile/mdsConfig /repositoryName	Name of the MDS repository for CSS Mobile	mds-CustomPortalDS
/oucssInstall/oucssApplication/oucssMobile/mdsConfig /partitionName	MDS Partition name of oucssMobile	OUCSSMobile
/oucssInstall/oucssApplication/oucssMobile/mdsConfig /repositoryType	Repository type	**DB** Only DB type MDS is supported
/oucssInstall/oucssApplication/oucssMobile/mdsConfig /jndi	JNDI name for WebLogic Datasource for CSS Mobile MDS	jdbc/mds/mds-CustomPortalDS
/oucssInstall/oucssApplication/ oucssMobile /mdsConfig/database/userName	Username of schema hosting MDS for CSS Mobile application.	OUCSSCUST_MDS
/oucssInstall/oucssApplication/ oucssMobile /mdsConfig/database/password	Password to connect to MDS schema	Welcome1
/oucssInstall/oucssApplication/ oucssMobile /mdsConfig/database/hostName	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssInstall/oucssApplication/ oucssMobile /mdsConfig/database/portNumber	Portnumber to connect to DB hosting MDS	Dbportno
/oucssInstall/oucssApplication/ oucssMobile /mdsConfig/database/sid	SID/service name to connect to schema	WC1
/oucssInstall/oucssApplication/ oucssMobile /mdsConfig/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True/False
/oucssInstall/oucssApplication/oucssInbound/deploy	Set to true if OUCSS Inbound Services should be deployed	true
/oucssInstall/oucssApplication/oucssInbound/applicatio nName	Application name to be used to install OUCSS Inbound Services	OUCSSInboundServices
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/hostName	Hostname of Admin server of WebLogic domain hosting OUCSS Inbound Services	webcenterhostname.oracle.com
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/portNumber	Port Number of Admin server of WebLogic domain hosting OUCSS Inbound Services	7001
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/serverName	Admin server name of WebLogic domain hosting OUCSS Inbound Services	AdminServer
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/domainName	Admin Server Domain Name	portal_domain
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/domainLocation	Admin Server Domain Location	/XXX/OUCSS210/Middleware/user_pro jects/domains/portal_domain
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/realName	WebLogic RealName where You need to create OUCSS Users and Groups	myrealm
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/security/userName	Admin user to connect to Admin server	weblogic
/oucssInstall/oucssApplication/oucssInbound/adminSe rver/security/password	Admin user password to connect to Admin server	WLSAdminPasswd

/oucssInstall/oucssApplication/oucssInbound/deployTarget/clusterOrServer	Deployment Target Type for OUCSS Inbound Services	Cluster (or) Server
/oucssInstall/oucssApplication/oucssInbound/deployTarget/clusterOrServerName	Cluster/ Managed server name hosting OUCSS Inbound Services.	WC_CustomPortal
/oucssInstall/oucssApplication/oucssInbound/deployTarget/hostName	This will host the OUCSS Inbound will be deployed	portalhostname.oracle.com
/oucssInstall/oucssApplication/oucssInbound/deployTarget/portNumber	Port number for the Cluster/Server hosting CSS Inbound	9001
/oucssInstall/oucssApplication/oucssInbound/database/createDB	Flag to indicate if Inbound related data should be created	True /False
/oucssInstall/oucssApplication/oucssInbound/database/hostName	Hostname to connect to CSS Database. Can be same as for CSS Portal	Dbserver.oracle.com
/oucssInstall/oucssApplication/oucssInbound/database/portNumber	Port number to connect to CSS Database. Can be same as for CSS Portal	1521
/oucssInstall/oucssApplication/oucssInbound/database/sid	SID/service name to connect to schema	WC1
/oucssInstall/oucssApplication/oucssInbound/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True /False
/oucssInstall/oucssApplication/oucssInbound/database/sysdba/userName	Sys user to connect to CSS Database. Can be same as for CSS Portal	System Note : If using sys user, then use "sys as sysdba".

| | Sys user password. Can be same as for CSS Portal | **Dbsystempass** |

/oucssInstall/oucssApplication/oucssInbound/database/schema/userName	CSS DB username/schema which will host CSS specific DB objects. Can be same as for CSS Portal	oucssuser
/oucssInstall/oucssApplication/oucssInbound/database/schema/password	Password for CSS DB username/schema. Can be same as for CSS Portal	Dbpass
/oucssInstall/oucssApplication/oucssInbound/database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssInstall/oucssApplication/oucssInbound/database/dataSourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS
/oucssInstall/oucssApplication/oucssInbound/database/jndi	This should be as jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssInstall/oucssApplication/oucssInbound/database/installedVersion	Installed version of oucssInbound database	2.1.0
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/repositoryName	Name of the MDS repository	mds-CustomPortalDS
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/partitionName	MDS PartitionName of oucssInbound	OUCSSInbound
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/repositoryType	Repository type	**DB** Only DB type MDS is supported
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/jndi	JNDI name for WebLogic Datasource for CSS InboundMDS	jdbc/mds/CustomPortalDS
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/database/userName	Username of schema hosting MDS for CSS Inbound application.	OUCSSCUST_MDS
/oucssInstall/oucssApplication/oucssInbound/mdsConfig/database/password	Password to connect to schema	
/oucssInstall/oucssApplication/ oucssInbound/mdsConfig/database/hostName	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssInstall/oucssApplication/ oucssInbound/mdsConfig/database/portNumber	Portnumber to connect to DB hosting MDS	1521
/oucssInstall/oucssApplication/ oucssInbound/mdsConfig/database/sid	SID/service name to connect to schema	WC1
/oucssInstall/oucssApplication/ oucssInbound/mdsConfig/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True /False
/oucssInstall/oucssApplication/oucssPortletProducer/deploy	Set to true if OUCSS Portlet Producer should be deployed	true
/oucssInstall/oucssApplication/oucssPortletProducer/applicationName	Application name to be used to install OUCSS Portlet Producer	OUCSSPortletProducer
/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/hostName	Hostname of Admin server of WebLogic domain hosting OUCSS Portlet Producer	webcenterhostname.oracle.com

/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/portNumber	Port Number of Admin server of WebLogic domain hosting OUCSS Portlet Producer	7001
/oucssInstall/oucssApplication/oucssPortletProducer/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/OUCSS210/Middleware/user_projects/domains/portal_domain
/oucssInstall/oucssApplication/oucssPortletProducer/adminServer/realmName	WebLogic RealName 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
/oucssInstall/oucssApplication/oucssPortletProducer/database/portNumber	Port number to connect to CSS Database. Can be same as for CSS Portal	1521
/oucssInstall/oucssApplication/oucssPortletProducer/database/sid	SID/service name to connect to schema	WC1
/oucssInstall/oucssApplication/oucssPortletProducer/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True/false
/oucssInstall/oucssApplication/oucssPortletProducer/database/sysdba/userName	Sys user to connect to CSS Database. Can be same as for CSS Portal	System Note : If using sys user, then use "sys as sysdba
/oucssInstall/oucssApplication/oucssPortletProducer/database/sysdba/password	Sys user password. Can be same as for CSS Portal	**Dbsystempass**

/oucssInstall/oucssApplication/oucssPortletProducer/ database/schema/userName	CSS DB username/schema which will host CSS specific DB objects. Can be same as for CSS Portal	oucssuser
/oucssInstall/oucssApplication/oucssPortletProducer/ database/schema/password	Password for CSS DB username/schema. Can be same as for CSS Portal	Dbpass
/oucssInstall/oucssApplication/oucssPortletProducer/ database/createDataSource	Currently this flag is not used. Leave this blank	
/oucssInstall/oucssApplication/oucssPortletProducer/ database/dataSourceName	OUCSSDS is default Datasource Name used by the application. Datasource Name should be OUCSSDS	OUCSSDS
/oucssInstall/oucssApplication/oucssPortletProducer/ database/jndi	This should be as jdbc/OUCSSDS	jdbc/OUCSSDS
/oucssInstall/oucssApplication/oucssPortletProducer/ database/installedVersion	Installed version of oucssPortletProducer database	2.1.0
/oucssInstall/oucssApplication/oucssPortletProducer/ mdsConfig/repositoryName	Name of the MDS repository	mds-CustomPortalDS
/oucssInstall/oucssApplication/oucssPortletProducer/ mdsConfig/partitionName	MDS partitionName of oucssPortletProducer	OUCSSPortletProducer
/oucssInstall/oucssApplication/oucssPortletProducer/ mdsConfig/repositoryType	Repository type	**DB** Only DB type MDS is supported
/oucssInstall/oucssApplication/oucssPortletProducer/m dsConfig/jndi	JNDI name for WebLogic Datasource for PortalProducer MDS	jdbc/mds/CustomPortalDS
/oucssInstall/oucssApplication/ oucssPortletProducer /mdsConfig/database/userName	Username of schema hosting MDS for CSS PortletProducer application	OUCSSCUST_MDS
/oucssInstall/oucssApplication/ oucssPortletProducer /mdsConfig/database/password	Password to connect to schema	
/oucssInstall/oucssApplication/ oucssPortletProducer /mdsConfig/database/hostName	Hostname to connect to DB hosting MDS	Dbserver.oracle.com
/oucssInstall/oucssApplication/ oucssPortletProducer /mdsConfig/database/portNumber	Portnumber to connect to DB hosting MDS	1521
/oucssInstall/oucssApplication/ oucssPortletProducer /mdsConfig/database/sid	SID/service name to connect to schema	WC1
/oucssInstall/oucssApplication/ oucssPortletProducer /mdsConfig/database/isservicename	If isservicename is true then sid mentioned is considered as servicename instead of sid	True / False
/oucssInstall/oucssConnection/OUCCB/ /enabled	Set to true if CCB related connections need to be created from CSS Portal	true / false
/oucssInstall/oucssConnection/OUCCB/ /hostName	Hostname of server hosting CCB application	ccbhostname.oracle.com
/oucssInstall/oucssConnection/OUCCB/ /portNumber	Portnumber on which CCB application is listening	8500
/oucssInstall/oucssConnection/OUCCB/ /protocol	Protocol of CCB application URL	http

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

/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/enabled	Configuration for Optional OUCSS-BPEL-CCB BPEL processes. If enabled, select CCB connections will be configured using the below details.	true / false
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/hostName	Hostname of SOA server hosting BPEL processes for connecting to optional BPEL flows to CCB.	soahostname.oracle.com
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/portNumber	Portnumber on which SOA server is listening	8500
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/protocol	Protocol of SOA application URL	http
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/partitionName	SOA partition name	OUCSS
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/security/userName	Username which should be use to create CSF Key for optional BPEL flows to CCB	weblogic
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/security/password	Password which should be use to create CSF Key for optional BPEL flows to CCB.	Weblogic#1
/oucssInstall/oucssConnection/OUCSS_BPEL_CCB/security/csf-key	Name of csf-key created in CSS WebLogic domain to connect to optional BPEL flows to CCB.	OUCSS_INTG_BASIC_KEY
/oucssInstall/oucssConnection/mailServer/enabled	Flag to indicate if Mail Server related configuration should be created	true / false
/oucssInstall/oucssConnection/mailServer/hostName	Mail server hostname	mail.domain.com
/oucssInstall/oucssConnection/mailServer/portNumber	Mail server portnumber	25
/oucssInstall/oucssConnection/mailServer/protocol	Mail server protocol	Smtp
/oucssInstall/oucssConnection/mailServer/fromAddress	Mail server from address	wssAdmin@domain.com
/oucssInstall/oucssConnection/mapViewer/ /enabled	Flag to indicate if Map Viewer related configuration should be created	true / false
/oucssInstall/oucssConnection/mapViewer/ /hostName	Map Viewer Host name	mapviewerhostname.com
/oucssInstall/oucssConnection/mapViewer/ /portNumber	Map Viewer Port number	7001
/oucssInstall/oucssConnection/mapViewer/ /protocol	Map Viewer Protocol	http
/oucssInstall/oucssConnection/mapViewer/ / context	MapViewer context	mapviewer

/oucssInstall/oucssConnection/mapViewer/ / basemap	MapViewer base map	NAVTEQ_SF. WORLD_MAP
/oucssInstall/oucssConnection/mapViewer/ / colorTheme	MapViewer color Theme	ZIP5
/oucssInstall/oucssConnection/mapViewer/ / colorThemeLocColumn	MapViewer color Theme Loc Column	POSTALCODE
/oucssInstall/oucssConnection/mapViewer/ / srid	MapViewer sr id	8307
/oucssInstall/oucssConnection/ExternalOfferService_WSDL	Customer specific offer service URL **Note**: This is currently not used. Do not update.	http://host:port/Offers?WSDL

Appendix E

CCB-MDM Integrated Flows Installation Properties

The following xml file shows the structure and sample data contained in *CSSInstallProperties.xml* used for installing the CCB-MDM BPEL flows used for Self Service.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<config>
<modulename>OUCSS</modulename>
<EdgeApplications>
   <OUCSS>
        <AdminServer>
                <hostname/>
                <portnumber/>
                <servername/>
                <username/>
                <password/>
        </AdminServer>
        <ManagedServer>
                <hostname/>
                <portnumber/>
                <servername/>
                <username/>
                <password/>
        </ManagedServer>
        <JMS>
                <serverName/>
                <ModuleName/>
                <SubDeploymentName/>
                <TargetServerName/>
                <PersistentStoreName/>
                <PersistentStoreType/>
                <PersistentStoreFilename/>
        </JMS>
   </OUCSS>
   <OUMDM>
```

```xml
        <AdminServer>
                <hostname/>
                <portnumber/>
                <protocol></protocol>
                <servername/>
                <username/>
                <password/>
        </AdminServer>
        <ManagedServer>
                <hostname>mdmhostname.com</hostname>
                <portnumber>8500</portnumber>
                <protocol>http</protocol>
                <context>ouaf</context>
                <servername/>
                <username/>
                <password/>
        </ManagedServer>
        <JMS>
                <serverName/>
                <ModuleName/>
                <SubDeploymentName/>
                <TargetServerName/>
                <PersistentStoreName/>
                <PersistentStoreType/>
                <PersistentStoreFilename/>
        </JMS>
        <username>mdmuser</username>
        <password>mdmpassword</password>
    </OUMDM>
</EdgeApplications>
<SOA>
    <AdminServer>
            <hostname>soahostname.com</hostname>
            <portnumber>7015</portnumber>
            <servername>AdminServer</servername>
            <username>weblogicuser</username>
            <password>weblogicpassword</password>
            <domainname>soa_domain</domainname>
    </AdminServer>
    <ManagedServer>
            <hostname>soahostname.com</hostname>
            <portnumber>8015</portnumber>
            <servername>soa_server1</servername>
            <username>weblogicuser</username>
            <password>weblogicpassword</password>
    </ManagedServer>
    <mdsconfig>
            <mdsdbusername>mdsuser</mdsdbusername>
            <mdsdbuserpassword>mdspasswordr</mdsdbuserpassword>
            <mdsdbhostname>mdshostname.com</mdsdbhostname>
            <mdsdbportnumber>1521</mdsdbportnumber>
            <mdsdbsid>mdssidname</mdsdbsid>
    </mdsconfig>
</SOA>
</config>
```

CSSInstallProperties XPath Descriptions and Examples

Property	Description	Example
<config>		
<modulename>	Name of the integration module.	Default: OUCSS
		Do not change this value.
<EdgeApplications>		
<OUCSS>	Currently not used; leave this and subelement blank	
<AdminServer>	Currently not used; leave this and subelement blank	
<hostname>	Host name of the server where admin server is installed.	
<portnumber>	Port number the admin server is listening to.	
<servername>	Admin server name	
<username>	User name used to log in as an Admin server administrator.	
<password>	Password used to log in as an Admin server administrator.	
<ManagedServer>	Currently not used; leave this and subelement blank	
<hostname>	Host name of the server where managed server is installed.	
<portnumber>	Port number the managed server is listening to.	
<servername>	Managed server name	
<username>	User name to log in as a managed server administrator.	
<password>	Password to log in as a managed server administrator.	
<JMS>	Currently not used; leave this and subelement blank	
<serverName>	Server name hosting the JMS queue.	
	If CCB and MDM queues are hosted and targeted on a WebLogic domain hosting SOA suite, then do not change this value.	
	If CCB and MDM queues are on a different WebLogic domain, then this value should be unique across domains.	
	For more details, refer to the *WebLogic Administrator Guide*.	
<ModuleName>	Module name hosting the JMS queue.	
<SubDeploymentName>	Sub deployment name for JMS queues	

<TargetServerName>	WebLogic managed server name.	
	This property is usually same as ManagedServer_servername.	
<PersistentStoreName>	JMS persistent store name	
<PersistentStoreType>	JMS persistent store type (FileStores or DBStore)	
	Deployment script supports a file based persistent store.	
<PersistentStoreFilename>	Directory path name where file persistent store should be created.	
<OUMDM>		
<AdminServer>	Currently not used; leave this and subelement blank	
<hostname>	Host name of the server where admin server is installed.	
<portnumber>	Port number the admin server is listening to.	
<servername>	Admin server name	
<username>	User name used to log in as an Admin server administrator.	
<password>	Password used to log in as an Admin server administrator.	
<ManagedServer>		
<hostname>	MDM Application Hostname	host.xxx.xxx.com
<portnumber>	MDM application port number	7010
<protocol>	MDM Application Server protocol Valid values are `http` or `https`	http or https
<servername>	Managed server name	
	Currently not used; leave blank	
<username>	User name to log in as a managed server administrator.	
	Currently not used; leave blank	
<password>	Password to log in as a managed server administrator.	
	Currently not used; leave blank	
<JMS>	Currently not used; leave this and subelement blank	
<serverName>	Server name hosting the JMS queue.	
	If CCB and MDM queues are hosted and targeted on a WebLogic domain hosting SOA suite, then do not change this value.	
	If CCB and MDM queues are on a different WebLogic domain, then this value should be unique across domains.	
	For more details, refer to the *WebLogic Administrator Guide*.	
<ModuleName>	Module name hosting the JMS queue.	

	<SubDeploymentName>	Sub deployment name for JMS queues	
	<TargetServerName>	WebLogic managed server name.	
		This property is usually same as ManagedServer_servername.	
	<PersistentStoreName>	JMS persistent store name	
	<PersistentStoreType>	JMS persistent store type (FileStores or DBStore)	
		Deployment script supports a file based persistent store.	
	<PersistentStoreFilename>	Directory path name where file persistent store should be created.	
<username>		MDM Application Username	
<password>		MDM Application Password	
<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>			
<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.	
<mdsconfig>			
<mdsdbusername>		User name used to log in to MDS schema.	XXX_MDS
<mdsdbuserpassword>		Password used to log in to MDS schema.	
<mdsdbhostname>		Host name of the server hosting the database containing MDS schema.	Db.hostname.oracle.com
<mdsdbportnumber>		Port number of the database containing MDS schema.	1521
<mdsdbsid>		SID of the database containing MDS schema.	SID

Appendix F

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
<?xml version="1.0" encoding="UTF-8"?>
<config>
<modulename>OUCSS</modulename>
<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>

          <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>
                                  <jdbcdsname>CSSNMSDataSource1</jdbcdsname>
                                  <dbvendor>oracle</dbvendor>

<jdbc_xa_driver_class>oracle.jdbc.xa.client.OracleXADataSource</jdbc_xa_driver_class>
                         <jdbc_driver_class>oracle.jdbc.OracleDriver</jdbc_driver_class>
                                  <user>nmsdbuser</user>
                                  <pwd>nmsdbpwd</pwd>
                         </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: **OUCSS** Do not change this value.
<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 an 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>		
<db>		
<xads-flag>	Create XA Data Source flag	Default: **true**
<multi-ds>		
<hostname>	Database hostname	soadbhostname.xxx.xxx.com
<port>	Database port number	1521
<sid>	Database SID	SOADBINT
<multids>	Multi data source name	**CSSNMSMultiDS** (Do not change this value.)
<dsnameslist>	Adds the list of the generic data sources the user	**CSSNMSDataSource1** (The name(s) defined here should be the same

	wants to associate with the multi data source created.	as the name defined in generic-dss/ generic-ds/jdbcdsname property)
<algorithmtype>	Algorithm type for the Multi Data Source	**Values:** **Load-Balancing** (recommended algorithm) or **Failover**
<generic-dss>		
<generic-ds>		
<hostname>	NMS Database hostname	nmsdbhostname.xxx.xxx.com
<port>	NMS Database port number	1521
<sid>	NMS Database SID	nmssid
<jdbcdsname>	NMS Data source name	**CSSNMSDataSource1**
<dbvendor>	DB Vendor	Default: **oracle**
<jdbc_xa_driver_class>	JDBC Driver class	**oracle.jdbc.OracleDriver**
<jdbc_driver_class>	JDBC XA Driver class	**oracle.jdbc.xa.client.OracleXADataSource**
<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
<mdsconfig>		
<mdsdbusername>	User name used to log in to MDS schema.	XXX_MDS
<mdsdbuserpassword>	Password used to log in to MDS schema.	
<mdsdbhostname>	Host name of the server hosting the database containing the MDS schema.	Db.hostname.oracle.com
<mdsdbportnumber>	Port number of the database containing MDS schema.	1521
<mdsdbsid>	SID of the database containing MDS schema.	SID
<WorkFlow.Notification>		
<fromemailid>	Email ID which should be set in the "From" property of Workflow Notification bean	admintest@oracle.com
<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.	OUCSSDIRFL
	This user can be automatically created by the install (set dbuser.createflag to true) or manually outside the install process.	
<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.	true
	If the schema is created manually outside of the installation process, then set this value to "false". Else, set the value to "true", if the installation script should automatically create the schema.	
	Valid values: true or false (this is case sensitive)	
<dbhostname>	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 G

OUNC Installation Properties

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

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

```
        </EdgeSystems>
        <Core>
                <SOA>
                        <AdminServer>
                                <hostname></hostname>
                                <portnumber></portnumber>
                                <servername></servername>
                                <username></username>
                                <password></password>
                                <domainname></domainname>
                        </AdminServer>
                        <ManagedServer>
                                <hostname></hostname>
                                <portnumber></portnumber>
                                <servername></servername>
                                <username></username>
                                <password></password>
                        </ManagedServer>
                        <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>
                        <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
<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 H

OUCSS_INTG_BASIC_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 **oracle.wsm.security** , then click the Create Key button.

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

After Applying the Selected Workaround

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 I

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 <u>Installing OUCSS Portal</u> 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 <u>Verify Tokenization of the CCB Edge Application wsdl</u> 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 <u>Installing OUCSS Portal</u> 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.

Note: Since the OUCSS application interacts directly with the OUCCB application, set the enable flag to "false" for the property `oucssConnection.OUCSS_BPEL_CCB.enabled` in the InstallationProperties.xml file.

- If the optional flows are also deployed and you wish to route through the SOA-enabled OUCCB application, then enable the flag by setting the value to "true"

- If the OUCSS_BPEL_CCB Flows are not deployed, 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 J

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.