Oracle Public Sector Revenue Management Self Service

Installation Guide

Release 2.4.0 Service Pack 2

E61987-01

August 2015

ORACLE

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Documentation build: 8.6.2015 8:19:41 [TS_1438874381000]

Contents

Chapter 1

Installation Overview

This guide describes the installation steps that must be completed in order to use Public Sector Revenue Management Self Service (PSRMSS) integrated with Oracle Public Sector Revenue Management (PSRM).

NOTE: This document is subject to revision and updating. For the most recent version of this document and related documentation check BUG 18601054.

A pre-configured Oracle VM Virtual Image is available for download for demonstration purposes (non-production use). Please send an email to psrm_vm_ww_grp@oracle.com to request instructions for download.

Additional Resources

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

Resource	Location
Oracle WebCenter documentation	*http://www.oracle.com/technetwork/middleware/webcenter/portal/documentation/index.html*
Oracle Java Sun JDK	*http://http://docs.oracle.com/en/java*
Oracle SOA Suite documentation	*http://www.oracle.com/technetwork/middleware/soasuite/documentation/soa11gdoc-2212842.html*
Oracle UCM Documentation	*http://www.oracle.com/technetwork/middleware/webcenter/content/documentation/index.html*
Oracle Fusion Middleware Requirements	*https://docs.oracle.com/cd/E29542_01/doc.1111/e22628/wcmap.htm#WCMAP130*
Oracle WebLogic Documentation	*http://www.oracle.com/technetwork/middleware/weblogic/documentation/index.html*
Oracle Policy Automation	*http://www.oracle.com/technetwork/apps-tech/policy-automation/downloads/index.html*

Resource	Location
Oracle OIM Overview	*http://www.oracle.com/technetwork/middleware/id-mgmt/overview/index-098451.html*
Oracle OUD Overview	*http://www.oracle.com/technetwork/middleware/id-mgmt/overview/oud-433568.html*
Oracle Public Sector Revenue Management Documentation Library	*http://www.oracle.com/technetwork/documentation/pubsectrevmgmt-154608.html*

Abbreviations

ADF	Application Development Framework
BPEL	Business Process Execution Language
DDL	Data Definition Language
EAR	Enterprise Archive
EM/OEM	Oracle Enterprise Manager
MDS	Metadata Services
OIM	Oracle Identity Management
OPA	Oracle Policy Automation
OUD	Oracle Unified Directory
OUI	Oracle Universal Installer
OWSM	Oracle Web Services Manager
PSRMSS	Oracle Public Sector Revenue Management Self Service
PSRM	Oracle Public Sector Revenue Management
RCU	Repository Creation Utility
SOA	Service Oriented Architecture
WC	Oracle WebCenter
WLS	Oracle WebLogic Server

PSRMSS Installation and Configuration Flowchart

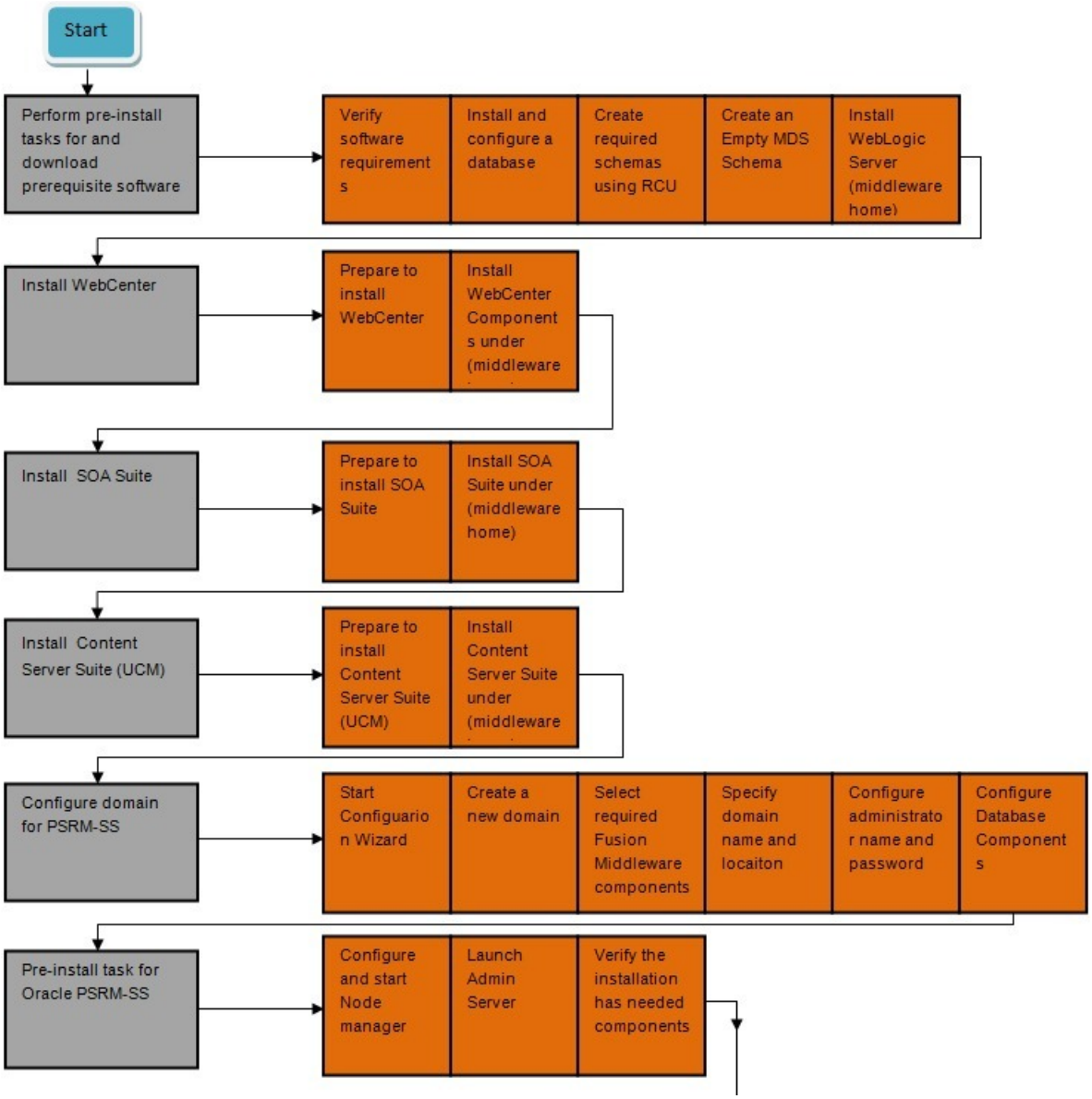


Figure 1: Installation flowchart (1 of 2)

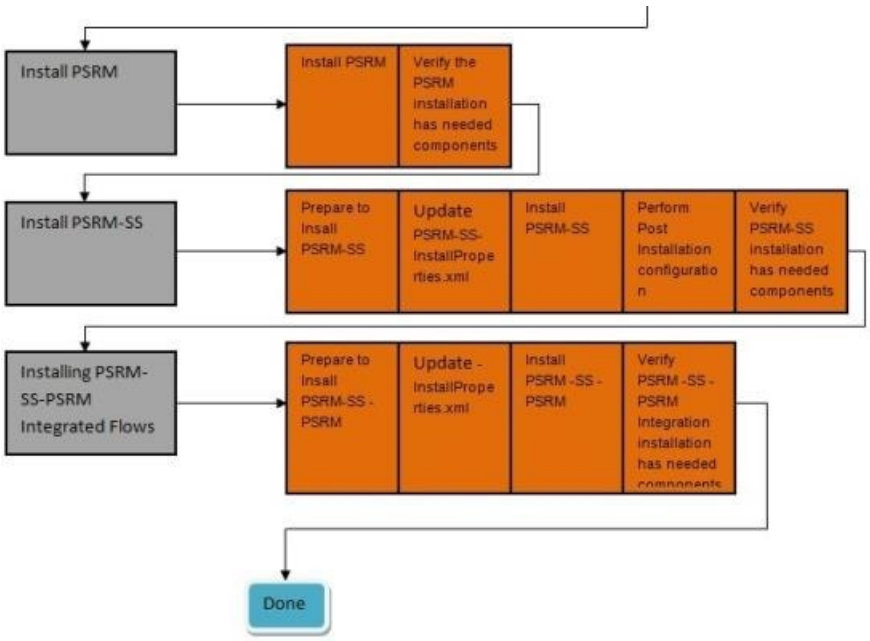


Figure 2: Installation flowchart (2 of 2)

Software Requirements

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

- Oracle RCU Database 11.1.1.8.0
- Oracle WebLogic Server 10.3.6
- Oracle WebCenter Release 11.1.1.8.0
- Oracle Content Server (UCM) 11.1.1.8.0
- Oracle SOA 11.1.1.7.0

Optional installations:

- Oracle BI Publisher 11.1.1.7.0
- Oracle OIM 11.1.2.x
- Oracle OUD 11.1.2.x
- Oracle OPA 10.4.4.21

When using PSRM as your back-end data management system:

- Bug 21384728 - ORACLE PUBLIC SECTOR REVENUE MANAGEMENT 2.4.0.2.0 - SERVICE PACK 2
- Oracle Documaker 12.0.x

Chapter 2

PSRMSS Installation

Types of Installation Packages

Installation Type	Description
Demo installation	Refer to PSRMSS Bug 21385704 for the latest demo download installation for PSRMSS and the demo components available for PSRM.
Pre-integrated with PSRM 2.4.0.2.0.	This type of installation renders PSRMSS 2.4.0.2.0 integrated with PSRM 2.4.0.2.0.
Standalone installation (PSRMSS and PSRMSS-<EDGE-PROD> Integration)	This type of installation renders a standalone PSRMSS 2.4.0.2 instance.

NOTE: Each package has the same basic installation procedure.

Pre-Installation Tasks

The following applications, scripts, and utilities must be installed or run in the recommended order prior to installing PSRMSS:

1. Install Oracle RCU database components (see *Appendix B* for additional details).

   NOTE: This installation requires that you create an additional empty MDS schema for PSRMSS.

2. Install Oracle WebLogic 11.1.1.8
3. Install Oracle WebCenter 11.1.1.8
4. Install Oracle UCM 11.1.1.8

5. Install Oracle SOA 11.1.1.7
6. Create and configure a new Oracle WebLogic domain for Oracle WebCenter, Oracle UCM, and Oracle SOA (see *Appendix C* for additional details).
7. Ensure that Oracle WebLogic Admin Server is running.

   NOTE: The following servers should be installed prior to installing PSRMSS (all should be installed and configured through the installations noted above). See *Appendix E* for additional details.

   - UCM_server1
   - WC_Portlet
   - WC_Spaces
   - WC_Utilities
   - soa_server1
8. Ensure that the Node Manager is running to start and stop servers.

   When starting Node Manager for the first time you will need to run the s*etNMProps* script to set `StartScriptEnabled=true` in the *nodemanager.properties* file:

   On UNIX/Linux:

   ```
   MW_HOME/oracle_common/common/bin/setNMProps.sh
   ```

   On Windows:

   ```
   MW_HOME \ORACLE_COMMON\common\bin\setNMProps.cmd
   ```

   NOTE: **MW_HOME** is set after initializing the *setWLSEnv* script for either OS.

   For subsequent Node Manager starts, navigate to `WL_HOME/server/bin` and 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.

   The script *setNMProps* only needs to be executed once.
9. Verify that the Oracle WebLogic Admin Server is running, and you are able to access the WebLogic console:

   ```
   http://<administration_server_host>:<administration_server_port>/console
   ```

Chapter 3

Installing Integrations

Integration Pre-Installation Tasks

The following tasks should be completed before you install PSRMSS-PSRM integrated flows:

- Extract the PSRMSS BPEL integration package to a local destination. This destination will be referred to as the PRODUCT_HOME for this installation.
- Ensure that the Oracle SOA Suite is installed and running.

> **NOTE:** For additional information on SOA, see *http://www.oracle.com/technetwork/middleware/soasuite/documentation/soa11gdoc-2212842.html*

- Log in to the WebLogic console to confirm there are no changes in **Pending Activation** status.
- Restart the Enterprise Manager and the WebLogic Administration servers.
- Ensure that the WebLogic Admin server, SOA server, and Node Manager are running.
- Ensure that PSRM V2.4.0.2.0 is properly installed and configured.

Integrated Flows Installation Directory Structure

This folder includes a subfolder hierarchy as shown in the following image:

> **NOTE:** If any of the folders are read-only, remove the read-only attribute from the folder.

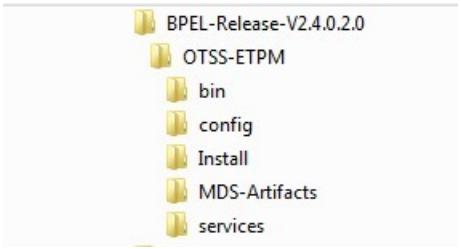


Figure 3: Integrated Flows installation directory structure

- **bin** contains the scripts to launch the installation utility (one script each for Linux and for Windows):

File	Description
InstallBuild.xml	This is the deployment and installation driver file.
DeployUndeployUtility.xml	This is the deployment driver file for the MDS repository.
install.sh	Install script for Linux.

- **config** contains the installation configuration file. This file must be updated with the environment configuration prior running the installer (see *Appendix A* for details on SOA InstallProperties.)

File	Description
InstallProperties.xml	Install parameters file.

- **Install** contains the work file for the application, installation property files, and installation utilities.
- **MDS-Artifacts** contains the artifacts that will be uploaded into the MDS repository.
- **services** contains the services that will be compiled and deployed to the soa-server.

Completing the Integration Installation

1. Download the installation from the Oracle Software Delivery Cloud (edelivery.oracle.com) and unjar into a target installation directory:

   Example:

   ```
   jar –xvf BPEL-Release-V2.4.0.2.0-<<Install-Type>>.jar
   ```

   NOTE: You must have the platform-appropriate Java JDK installed on the machine on which the Integration Installation package is unzipped.

2. Set the following environment variables (see *Appendix I* for a PSRMSS-PSRM Integration environment settings example):

Variable	Example
SOA_HOME	<BEA_HOME>Oracle_SOA1
ORACLE_HOME	<BEA_HOME>Oracle_SOA1
MW_HOME	<WebLogic_HOME>/Middleware
WL_HOME	<BEA_HOME>//wlserver_10.3
PRODUCT_HOME	This is the BPEL PSRMSS-PSRM product installation home.

Variable	Example

	Linux Example:
	`PRODUCT_HOME=/psrmss/PSRM-SS/BPEL-Release-V2.4.0.2.0-Release-InitialInstall/OTSS-ETPM`
	Windows Example:
	`PRODUCT_HOME=D:\psrmss\PSRM-SS\BPEL-Release-V2.4.0.2.0-Release-InitialInstall\OTSS-ETPM`

3. Update the `<PRODUCT_HOME>/config/InstallProperties.xml` file with values appropriate to your environment (see *Appendix A, BPEL/SOA* for a sample InstallProperties.xml file and an explanation of the properties and elements available in the file).
4. Run the *setWLSEnv* script to set the environment variables 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
   ```

5. Execute the following installation scripts for your OS to copy the files from the downloaded directory (PRODUCT_HOME) to the appropriate locations in `MW_HOME`
6. Change (cd) to the <PRODUCT_HOME>/bin directory.

   NOTE: The following ant command should be entered on one line. No output will be echoed to the screen; refer to the log file to check progress.

   On UNIX/Linux:

   ```
   cd $PRODUCT_HOME/bin
   ./install.sh -install
   ```

   On Windows:

   NOTE: The following ant command should be entered on one line.

   ```
   cd %PRODUCT_HOME%\bin
   ant -f InstallBuild.xml -DInstallProperties=%PRODUCT_HOME%\config\InstallProperties.xml -
   l installBPEL-PSRMSS.log
   ```

   When running the command, examine `InstallBPEL_<DATE_TIME>` 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.
7. Execute the following installation scripts in a command window for your OS to deploy MDS.

   On UNIX/Linux:

   ```
   cd $PRODUCT_HOME/bin
   ./install.sh -deployMDS
   ```

   On Windows:

NOTE: The following ant command should be entered on one line.

```
cd %PRODUCT_HOME%\bin
ant -f =%PRODUCT_HOME%\bin\DeployUndeployUtility.xml
-DInstallProperties==%PRODUCT_HOME%\config\InstallProperties.xml DeployMDS
```

NOTE: Once the installation has been completed successfully, it is recommended that you copy the installation log file produced into a secure location.

8. Restart both the WebLogic Admin server and the SOA server to activate the installation, then perform the tasks listed in the *Post-Integration Configuration Tasks* section of this document.

Post-Integration Configuration Tasks

The following describes items that must be configured after a successful installation of the BPEL Integration.

1. Log in into the Oracle Enterprise Manager console at http://WLSAdminHost:WLSAdminServerPort/em with your wlsadminuser/wlsadminpasswd credentials
2. Expand the **Farm_soa_domain** > **soa** > **soa-infra** > **OTSS-ETPM** partition.
3. Navigate to the **OTSSReportReconciliationRequestEBF** Composite. Right-click and select **Service/Reference** > **OTSSReportReconciliationFileAdapter**:

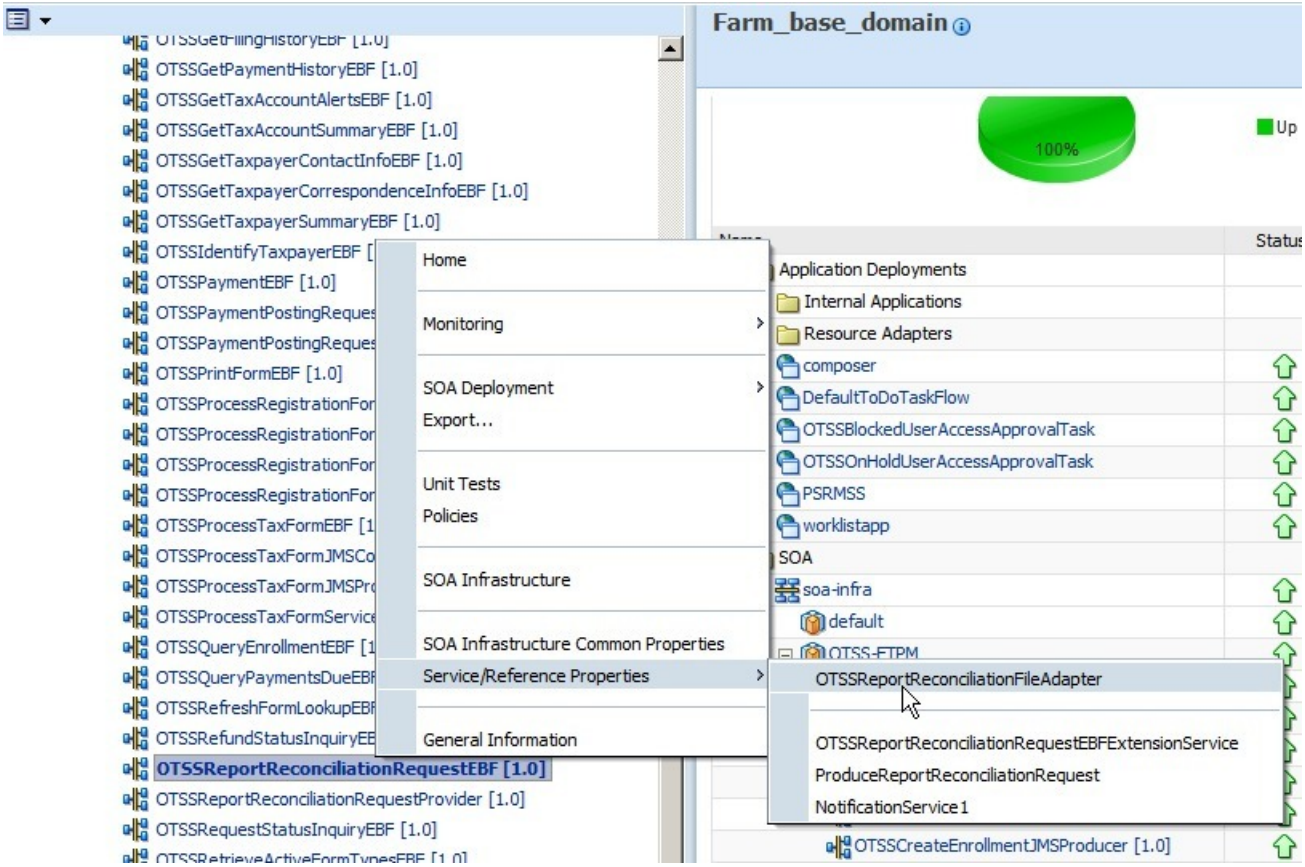


Figure 4: Selecting the OTSSReportReconciliationFileAdapter

4. On the **Properties** tab, enter a value in the **FilePath** field:

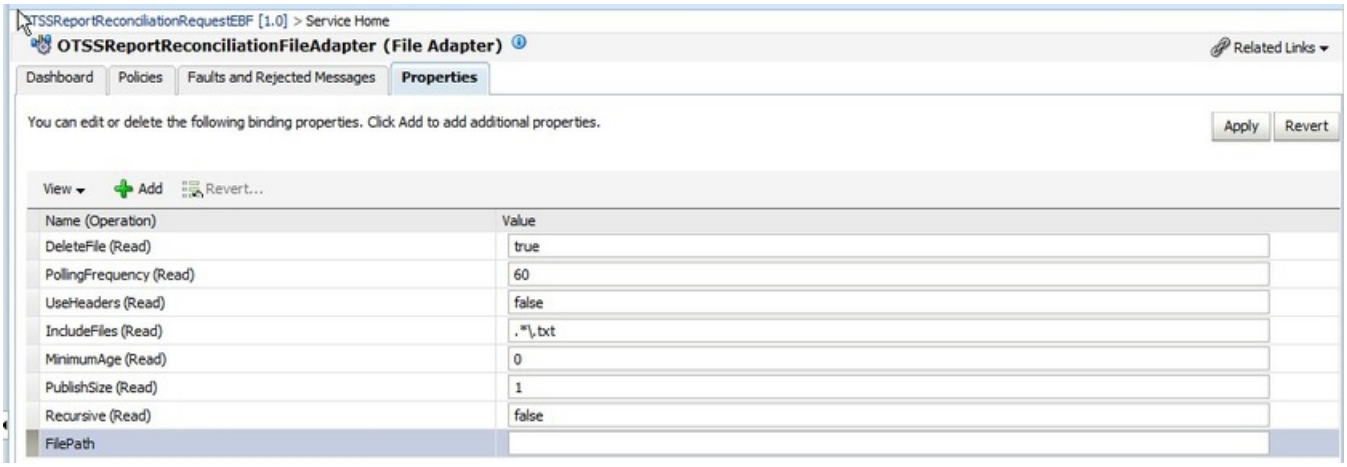


Figure 5: Entering the FilePath value

> **NOTE:** This FilePath will be the location where the OPC reconciliation reports will be placed, so this directory must be readable and accessible.

5. Click **Apply**.

Updating the Worklist Application

1. Log in into the Oracle Enterprise Manager console at http://WLSAdminHost:WLSAdminServerPort/em with your wlsadminuser/wlsadminpasswd credentials
2. Expand the **Farm_soa_domain** > **soa** > **soa-infra** > **OTSS-ETPM** partition.
3. Navigate to the **OTSSUserAccessApprovalService** Composite.
4. On the **Dashboard** tab, navigate to the **BlockedUserAccessApprovalTask** and **OnHoldUserAccessApprovalTask** components. Configure each component using the details provided in the next step.

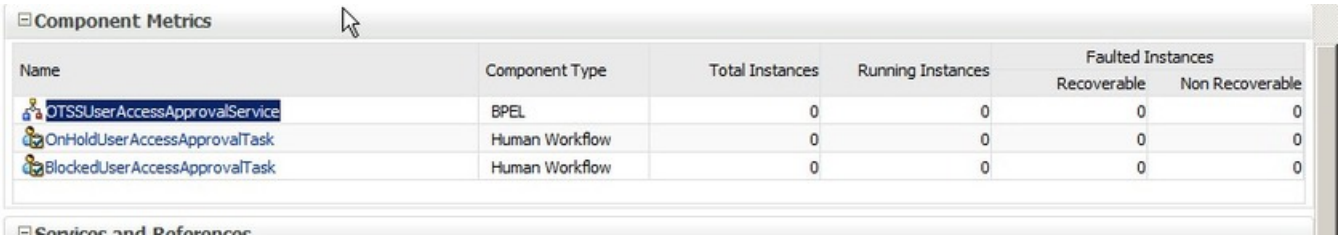


Figure 6: Locating Component Metrics

5. On the **Administration** tab, add the URI configuration for the task details for each component:

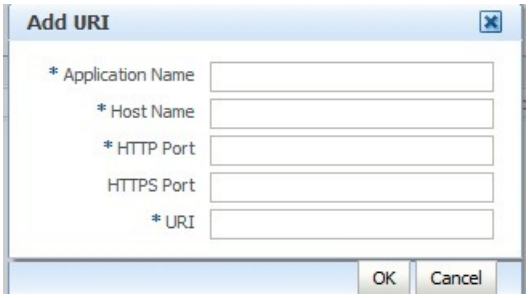


Figure 7: Adding URI configuration for components

For the BlockedUserAccessApprovalTask:

- Application Name: worklist
- Host Name: The server host name on which the worklist application is deployed (e.g., the soa_host)
- HTTP Port: The port number for the worklist application (e.g., the soa port number)
- HTTPS Port:
- URI: /workflow/OTSSBlockedUserAccessApprovalTask/faces/adf.task-flow?_id=BlockedUserAccessApprovalTask_TaskFlow&_document=WEB-INF/BlockedUserAccessApprovalTask_TaskFlow.xml

*Click **Apply** after providing the URI details for the changes to take effect.*

For the OnHoldUserAccessApprovalTask:

- Application Name: worklist
- Host Name: The server host name on which the worklist application is deployed.
- HTTP Port: The port number for the worklist application (e.g., 8001).
- HTTPS Port:
- URI: /workflow/OTSSOnHoldUserAccessApprovalTask/faces/adf.task-flow?_id=OnHoldUserAccessApprovalTask_TaskFlow&_document=WEB-INF/OnHoldUserAccessApprovalTask_TaskFlow.xml

*Click **Apply** after providing the URI details for the changes to take effect.*

Post-Integration Checklist

This section describes procedures to verify integration of the PSRMSS-PSRM flows.

Verifying Creation of the OTSS-SOADS and OTSS-USRACS Data Sources

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your *weblogicAdminUser/weblogicAdminPassword* credentials.
2. Select the <soa-domain>, then expand **Services**, and click **Data Sources**.

   The list of data sources should include **OTSS-SOADS** and **OTSS-USRACS**, as shown in the following image:

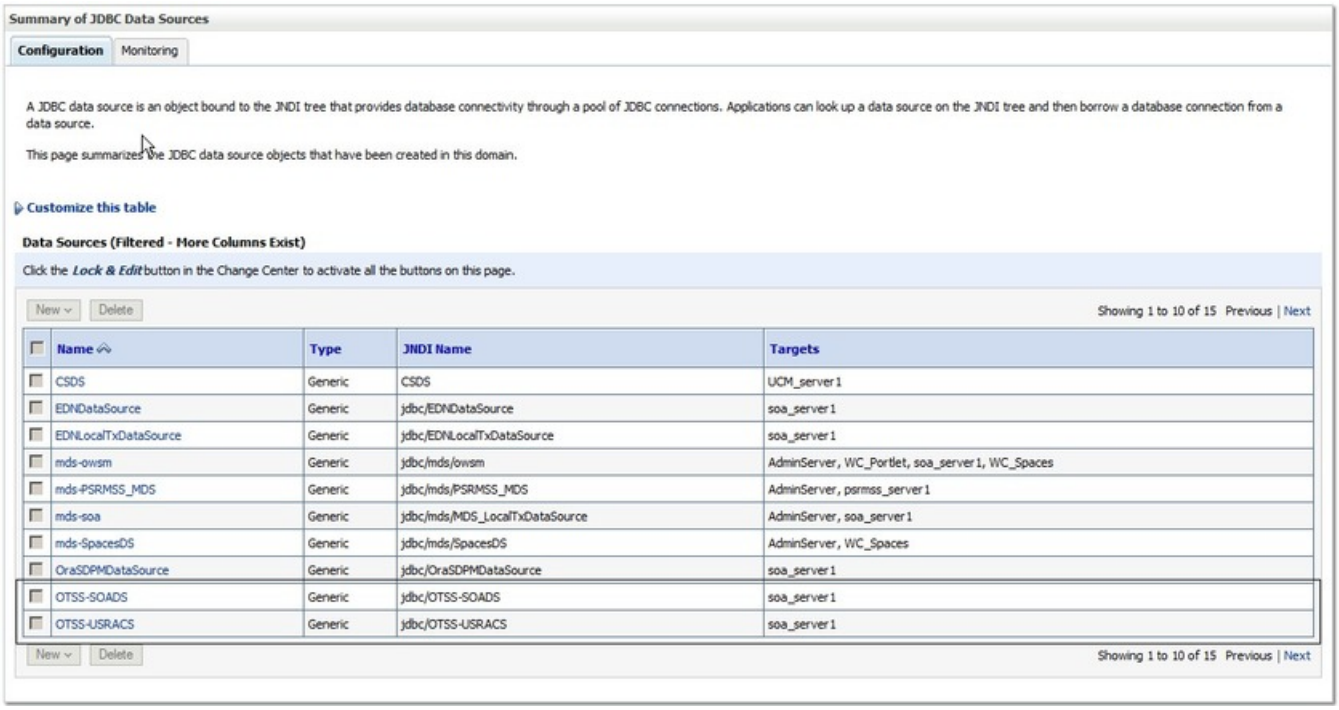


Figure 8: Verifying JDBC data sources

Verifying Creation of the JMS Modules

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your *weblogicAdminUser/weblogicAdminPassword* credentials.
2. Select the <soa_domain>, expand **Messaging**, and click **JMS Modules**.

   The list of JMS Modules should include **OTSSETPMJMSModule**, as shown in the following image:

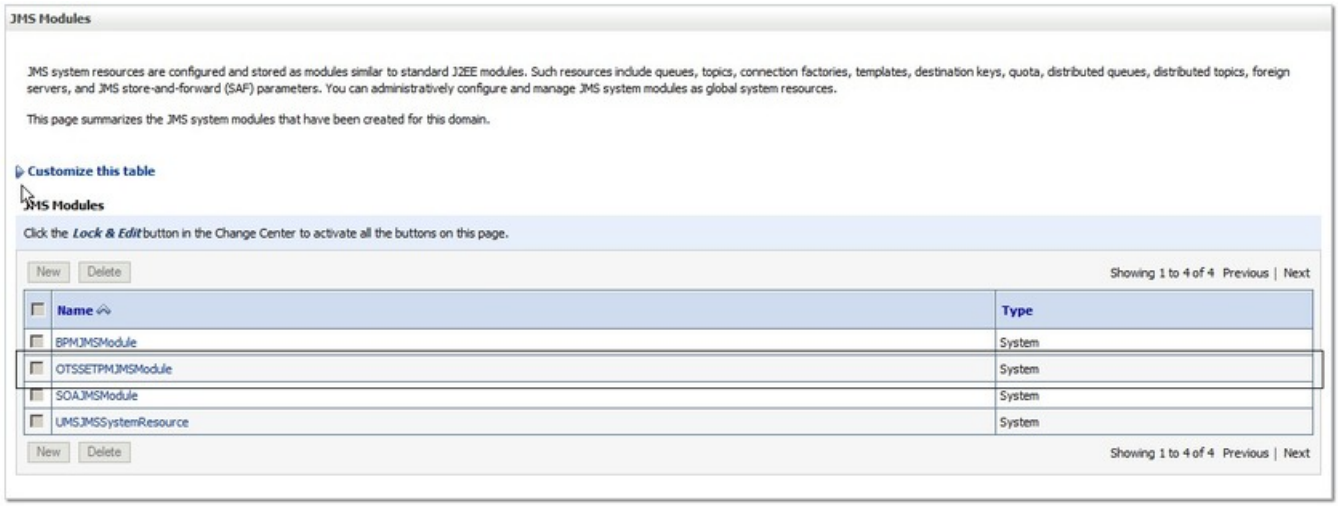


Figure 9: Verifying the JMS module

3. Click **OTSSETPMJMSModule**.

The Summary of Resources is displayed:

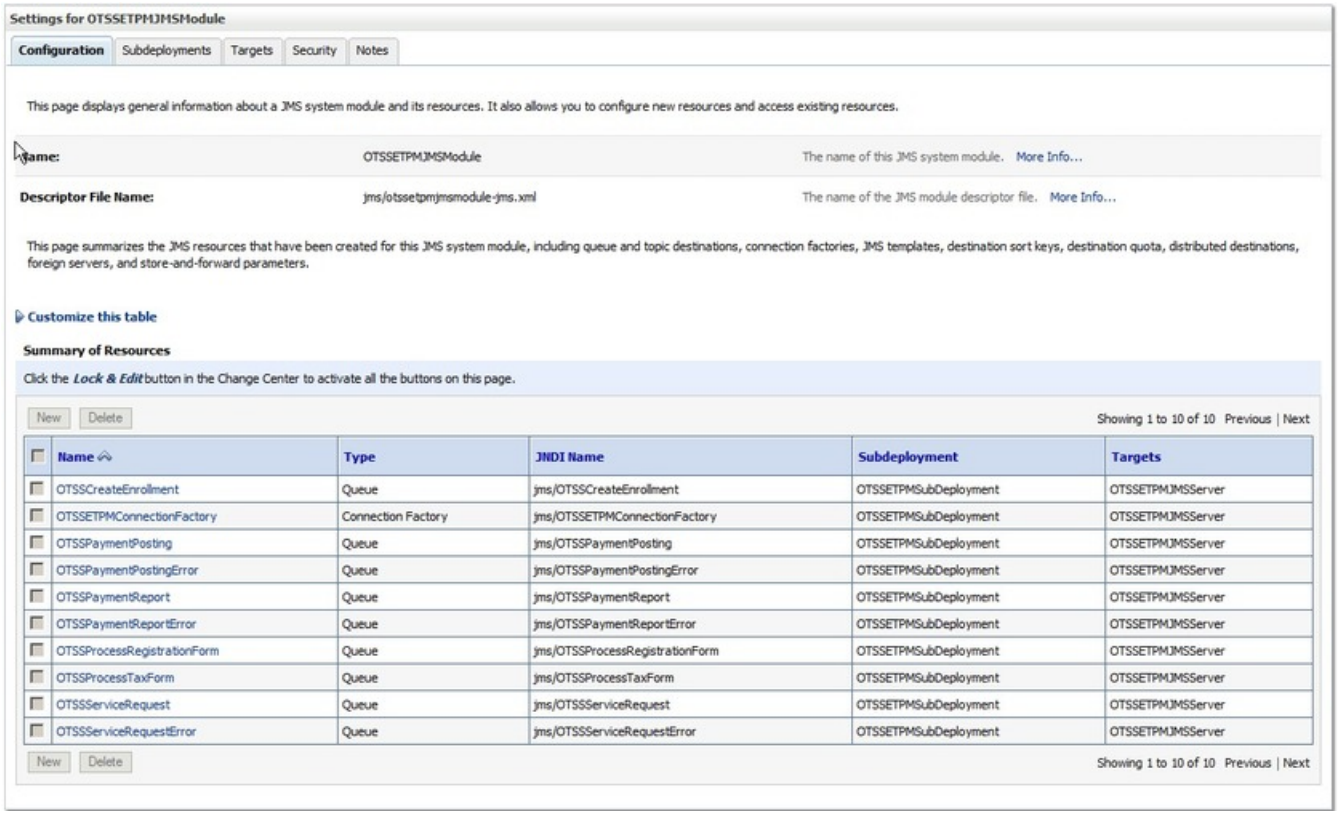


Figure 10: Verifying resources

The list of resources should include the following:

- OTSSCreateEnrollment
- OTSSPSRMConnectionFactory
- OTSSPaymentPosting
- OTSSPaymentPostingError
- OTSSPaymentReport
- OTSSPaymentReportError
- OTSSProcessRegistrationForm
- OTSSProcessTaxForm
- OTSSServiceRequest
- OTSSServiceRequestError

Verifying Creation of the Outbound Connection Pools

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your *weblogicAdminUser/weblogicAdminPassword* credentials.
2. Select the <soa-domain>, then click on **Deployments**, and click the deployment for **DbAdapter**, as shown in the following image:

Figure 11: Selecting the DbAdapter deployment

3. Click **Configuration – Outbound Connection Pools**, with a **Group and Instance** of **eis/DB/OTSS-SOADS1** and **eis/DB/OTSS-USRACS**, as shown in the following image:

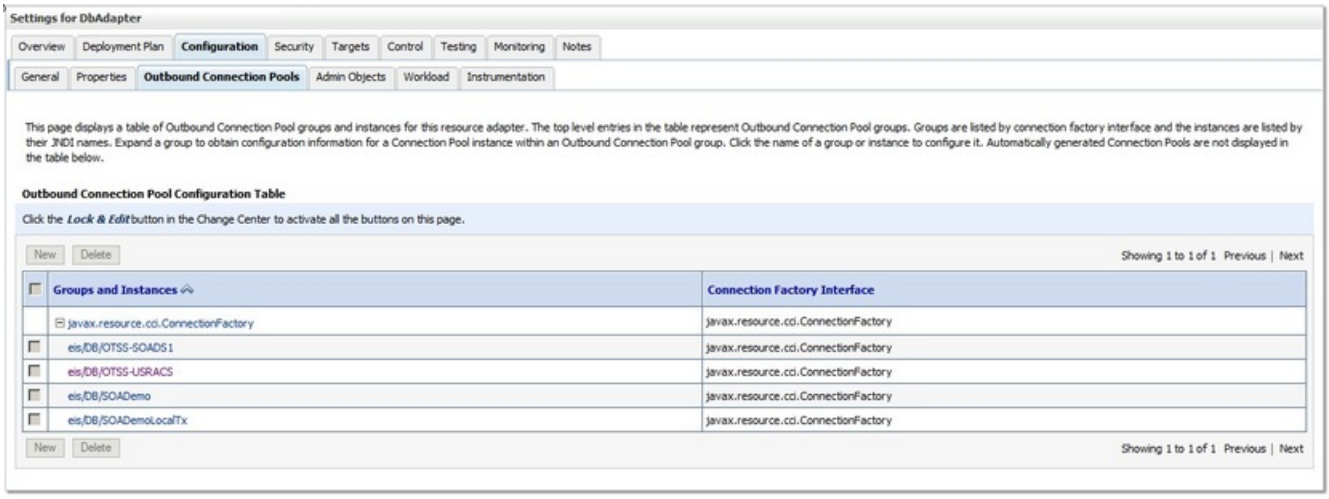


Figure 12: Selecting the Outbound Connection Pools

Verifying the Composites in Enterprise Manager

To verify that the OTSS-ETPM partition was created with all composites deployed:

1. Log in into the Oracle Enterprise Manager console at `http://WLSAdminHost:WLSAdminServerPort/em` with your *wlsadminuser/wlsadminpasswd* credentials.
2. Expand the **Farm_<domain-name>_domain** > **soa** > **soa-infra** > **OTSS-ETPM** partition.

Figure 13: Verifying all deployed composites

3. Verify that following composites are deployed (there should be a total of 50):

- OTSSIdentifyTaxpayerEBF [1.0]
- OTSSRetrieveActiveFormTypesEBF [1.0]
- OTSSGetServiceRequestHistoryEBF [1.0]
- OTSSGetDocumentImageEBF [1.0]
- OTSSRetrieveFormTypeDefinitionsEBF [1.0]
- OTSSRefreshFormLookupEBF [1.0]
- OTSSRefundStatusInquiryEBF [1.0]

- OTSSRequestStatusInquiryEBF [1.0]
- OTSSCreateEnrollmentEBF [1.0]
- OTSSCreateEnrollmentJMSConsumer [1.0]
- OTSSCreateEnrollmentJMSProducer [1.0]
- OTSSCreateEnrollmentServiceProvider [1.0]
- OTSSEnrollmentIDService [1.0]
- OTSSQueryEnrollmentEBF [1.0]
- OTSSSummaryEnrollmentEBF [1.0]
- OTSSTaxpayerServiceRequestEBF [1.0]
- OTSSConfirmationIdService [1.0]
- OTSSTaxpayerServiceRequestProvider [1.0]
- OTSSServiceRequestJMSConsumer [1.0]
- OTSSServiceRequestJMSProducer [1.0]
- OTSSPaymentPostingRequestProvider [1.0]
- OTSSGetExternalPaymentDataEBF [1.0]
- OTSSPaymentEBF [1.0]
- OTSSReportReconciliationRequestProvider [1.0]
- OTSSReportReconciliationRequestEBF [1.0]
- OTSSPaymentPostingRequestEBF [1.0]
- OTSSAddressMaintenanceEBF [1.0]
- OTSSDocumentLocatorNumberService [1.0]
- OTSSFormUploadEBF [1.0]
- OTSSGetFilingHistoryEBF [1.0]
- OTSSGetPaymentHistoryEBF [1.0]
- OTSSGetTaxAccountAlertsEBF [1.0]
- OTSSGetTaxAccountSummaryEBF [1.0]
- OTSSGetTaxpayerContactInfoEBF [1.0]
- OTSSGetTaxpayerCorrespondenceInfoEBF [1.0]
- OTSSGetTaxpayerSummaryEBF [1.0]
- OTSSProcessRegistrationFormEBF [1.0]
- OTSSProcessRegistrationFormJMSConsumer [1.0]
- OTSSProcessRegistrationFormJMSProducer [1.0]
- OTSSProcessRegistrationFormServiceProvider [1.0]
- OTSSProcessTaxFormEBF [1.0]
- OTSSProcessTaxFormJMSConsumer [1.0]
- OTSSProcessTaxFormJMSProducer [1.0]
- OTSSProcessTaxFormServiceProvider [1.0]
- OTSSQueryPaymentsDueEBF [1.0]

- OTSSFormValidationService [1.0]
- OTSSUserAccessApprovalService [1.0]
- OTSSUserAccessService [1.0]
- OTSSBase64EncodeDataService [1.0]
- OTSSPrintFormEBF [1.0]

Verifying Worklist Applications Deployment

1. Log in into the Oracle Enterprise Manager console at `http://WLSAdminHost:WLSAdminServerPort/em` with your wlsadminuser/wlsadminpasswd credentials.
2. Expand the **Farm_<domain-name>_domain** > **Application Deployments**.

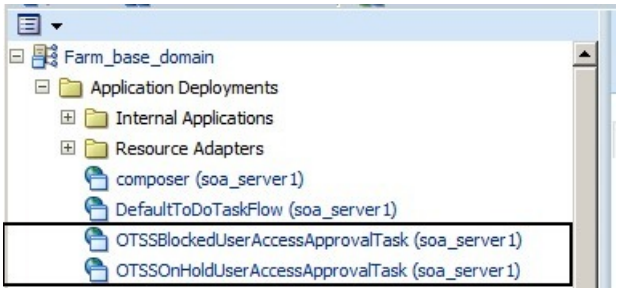


Figure 14: Verifying application deployments

3. Verify that following two applications are displayed:
   - OTSSBlockedUserAccessApprovalTask
   - OTSSOnHoldUserAccessApprovalTask

Verifying Creation of Keys

To verify that the PSRMSS_RMSYS and PSRMSS_EXTUCM keys have been created:

1. Log in into the Oracle Enterprise Manager console at `http://WLSAdminHost:WLSAdminServerPort/em` with your wlsadminuser/wlsadminpasswd credentials.
2. Expand the **Farm_<domain-name>_domain** > **WebLogic Domain** > **Domain Name** > **Security** > **Credentials**.

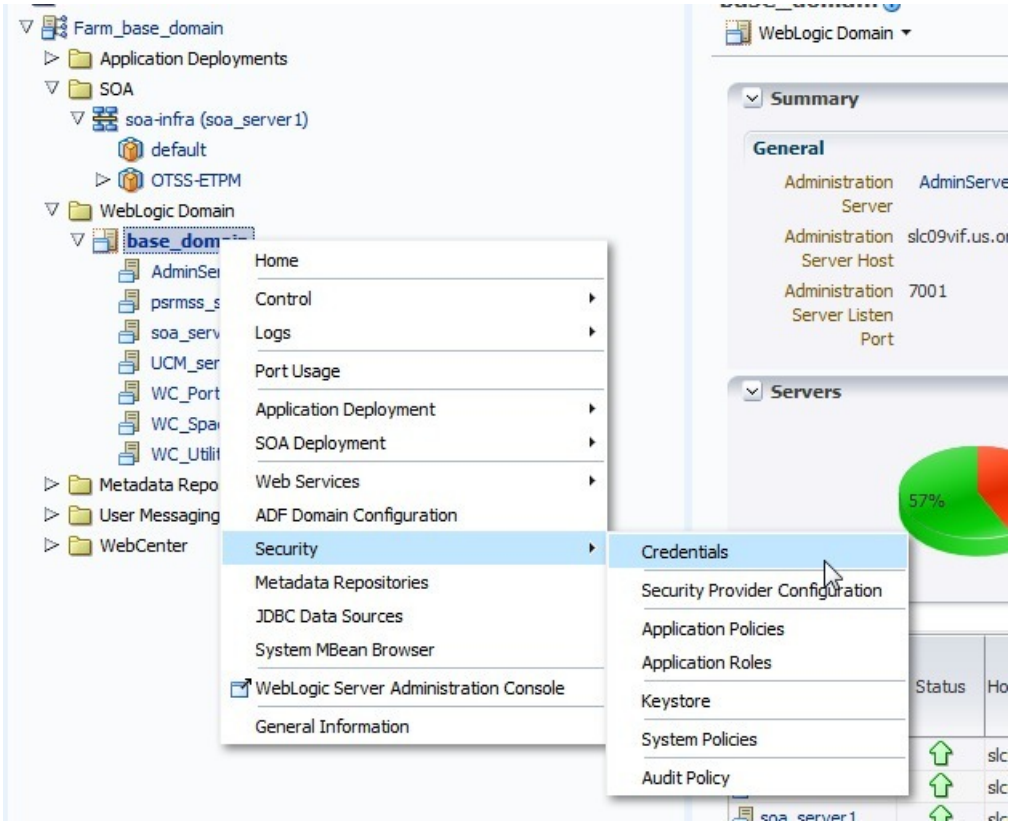


Figure 15: Navigating to base_domain credentials

3. Expand **oracle.wsm.security**

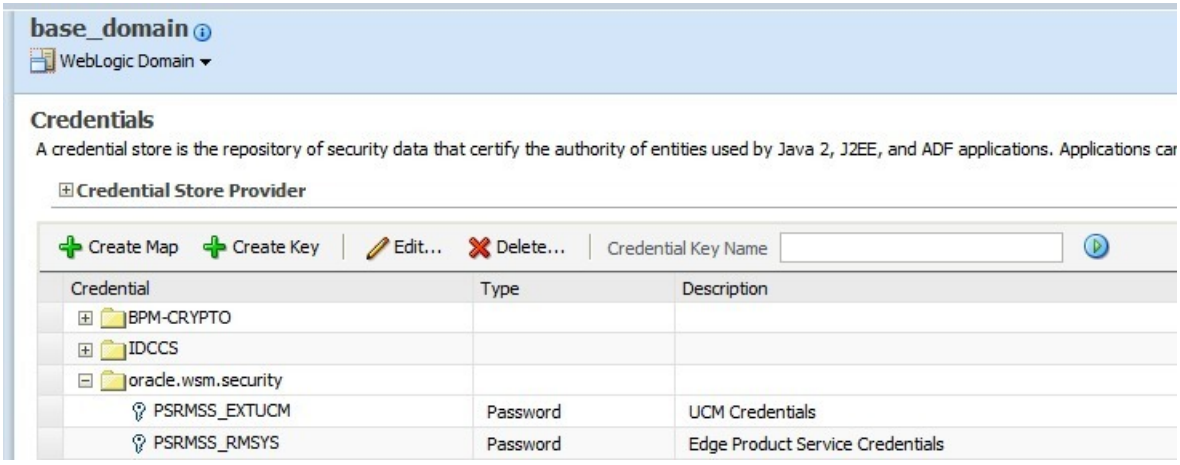


Figure 16: Verifying base_domain security keys

Two keys should be listed:

- PSRMSS_EXTUCM
- PSRMSS_RMSYS

Accessing the Worklist Application

To access the Worklist application after a successful installation:

User	http/s://<soa-server>:<soa-port>/integration/worklistapp/faces/login.jspx

PSRMSS Installation Directory Structure

The product installation directory contains the following hierarchy:

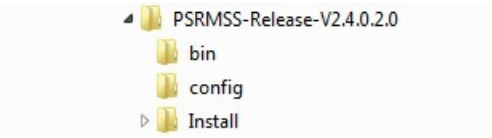


Figure 17: Installation structure

- **bin** contains the scripts to launch the installation utility. Two scripts are provided (one each for Windows and for Linux):

File	Description
install.sh	Install script for Linux
install.cmd	Install script for Windows

- **config** contains the installation configuration file. This file must be updated with the environment configuration prior running the installer (for details, see *Appendix F*).

File	Description
PSRM-SS-InstallProperties.xml	Installation parameters file.

- **Install** contains the PSRMSS application, installation property files, and installation utilities.
- **Log** contains the log for the installation utility.

If any of the folders are read-only, remove the read-only attribute from the folder.

Chapter 4

PSRMSS Product Installation

This topic describes the basic installation procedure for PSRMSS.

1. Download PSRMSS-Release-V2.4.0.2.0<<Install-Type>>.jar from the from the Oracle Software Delivery Cloud (edelivery.oracle.com) and unjar into a target installation directory:

   Example: `jar –xvf PSRMSS-Release-V2.4.0.2.0<<Install-Type>>.jar`

   Linux example:

   ```
   /PSRM-SS/PSRM-SS-ProductInstall
   ```

   Windows example:

   ```
   D:\PSRM-SS\PSRM-SS-ProductInstall
   ```

   You must have the platform-appropriate Java JDK installed on the machine on which the PSRMSS package is unjarred.

2. Set the PRODUCT_HOME environment variable to point to PSRM-SS-Product-Install:

   Linux example:

   ```
   export PRODUCT_HOME=/PSRMSS/PSRM-SS-Release-V2.4.0.2.0
   ```

   ```
   echo $PRODUCT_HOME
   ```

   echo should return PRODUCT_HOME as the location of the top-level directory of the installation media, e.g., `/PSRMSS/PSRM-SS-Release-V2.4.0.2.0`.

   Windows example:

   ```
   SET PRODUCT_HOME=D:\PSRMSS\PSRM-SS-Release-V2.4.0.2.0
   ```

   ```
   echo %PRODUCT_HOME%
   ```

   echo should return PRODUCT_HOME as location of the top level directory of the installation media, e.g., `D:\PSRMSS\PSRM-SS-Release-V2.4.0.2.0`.

   See *Appendix J* for a PSRMSS environment settings example.

3. Set the WebLogic server environment by running the *setWLSEnv* script. The scripts are located in `<WEBLOGIC_HOME>\wlserver_10.3\server\bin`.

   Linux example:

   ```
   source /PSRMSS/weblogic-10.3.6/wlserver_10.3/server/bin/setWLSEnv.sh
   ```

Windows example:

```
run D:\weblogic-10.3.6\wlserver_10.3\server\bin\setWLSEnv.cmd
```

After running the script, verify that the *wlserver* environment is set in your classpath and path environment variables.

4. Update the `<PRODUCT_HOME>/config/PSRM-SS-InstallProperties.xml` file with values appropriate to your environment (see *Appendix F* for a sample PSRM-SS-InstallProperties.xml file and an explanation of the properties and elements available in the file).

5. Execute following command to change to PRODUCT_HOME/bin:

   On Linux:

   ```
   source /PSRMSS/weblogic-10.3.6/wlserver_10.3/server/bin/setWLSEnv.sh
   ```

   On Windows:

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

   IMPORTANT: Before proceeding to the final step, ensure that both the Admin server and Node Manager are up and running.

6. Run the installation script to install PSRMSS.

   On Linux:

   ```
   ./install.sh -i
   ```

   NOTE: You must change the access permissions on install.sh using the command `chmod 755`.

   On Windows:

   ```
   install.cmd -i
   ```

   The following message is displayed on a successful installation of PSRMSS:

   ```
   ------------------------------------------------------------
   Installation of PSRM-SS V2.4.0.2.0 is Successful
   ------------------------------------------------------------
   ```

   If any message appears that indicates an unsuccessful installation after executing the installation utility, see *Appendix G, Installer Utility Overview*.

Post-Installation Tasks

Verifying the Installation

The following topics comprise a verification checklist for the PSRMSS installation.

Verifying ADF Connections for the PSRMSS Application

To configure and verify that the PSRMSS application WSDLs are correctly tokenized and OWSM Policies are correctly set:

1. Log in into the Oracle Enterprise Manager console at `http://WLSAdminHost:WLSAdminServerPort/em` with your *wlsadminuser/wlsadminpasswd* credentials.

2. Select **Application Deployments**, choose **PSRMSS**, then right-click and choose **ADF** > **Configure ADF Connections** from the context menu as shown in the following image:

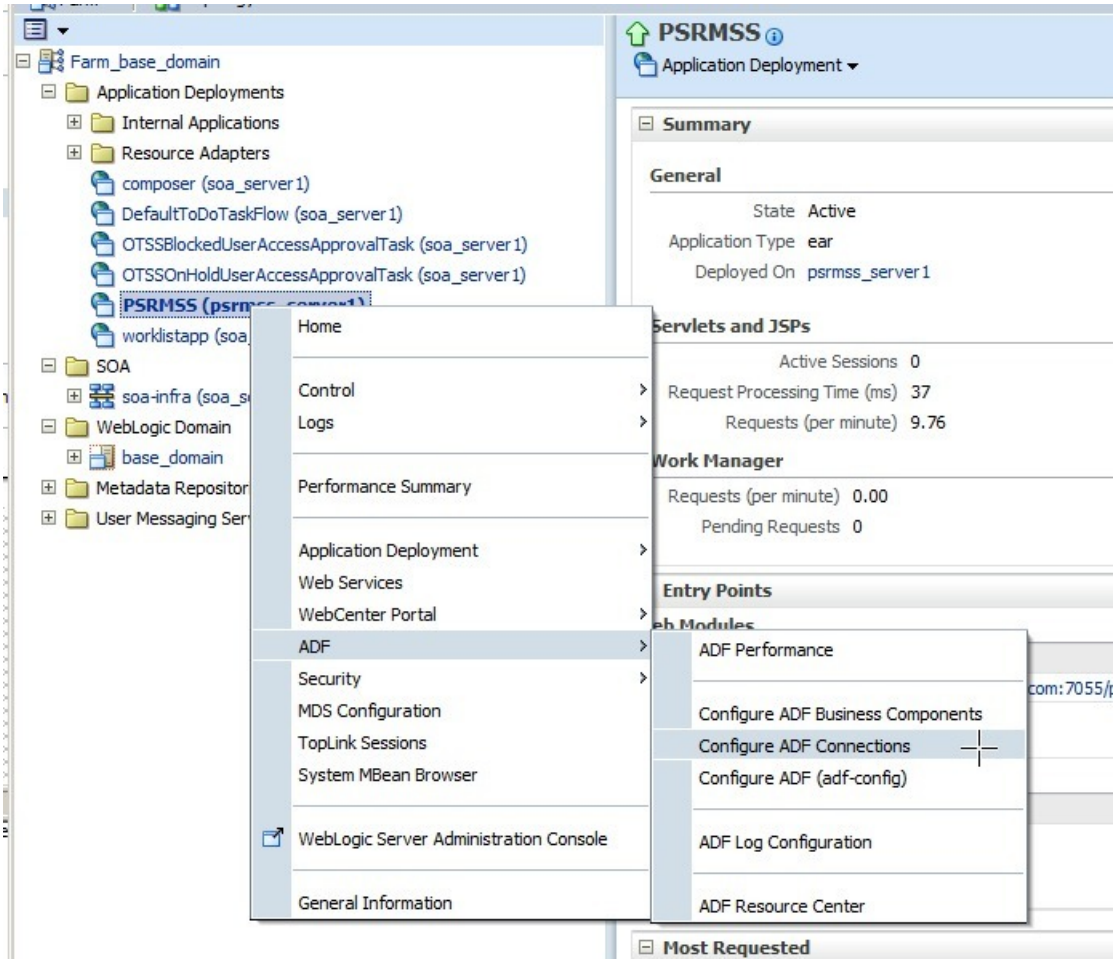


Figure 18: Navigating to Configure ADF Connections

3. Select a Connection Name, then right-click Advanced Connection Configuration:

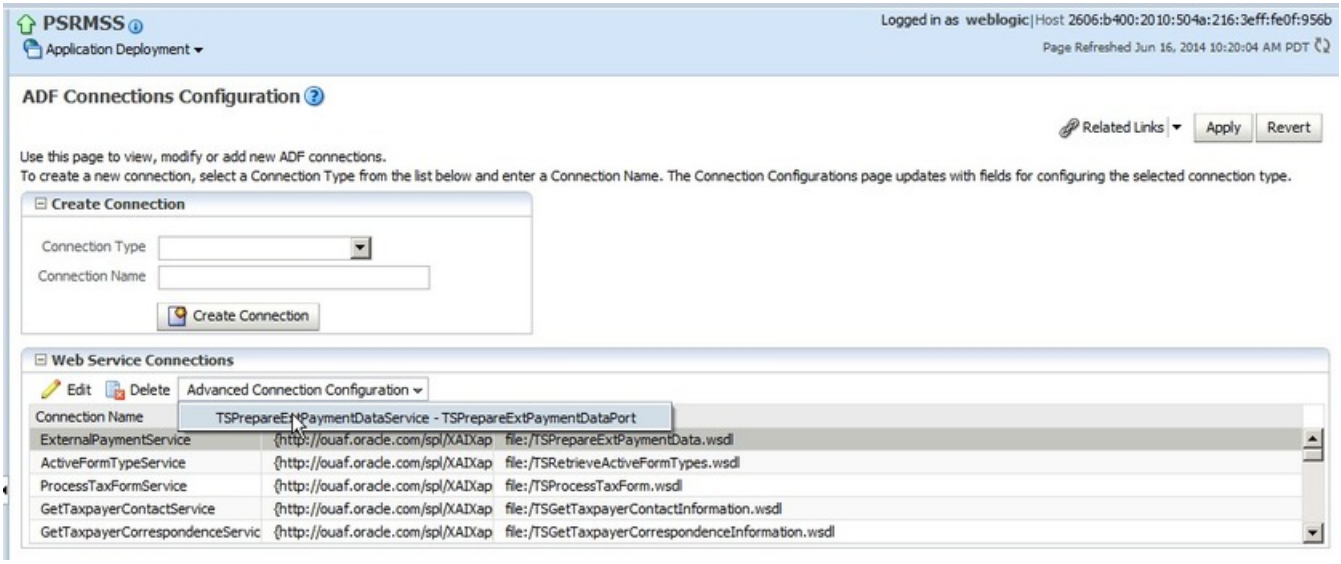


Figure 19: Configuring a connection

4. Click on the **OWSM** tab. Check that the Directly Attached Policies section contains the correct policy and that the value of **csf-key** is **PSRMSS_BPEL** in the Security Configuration Details section.

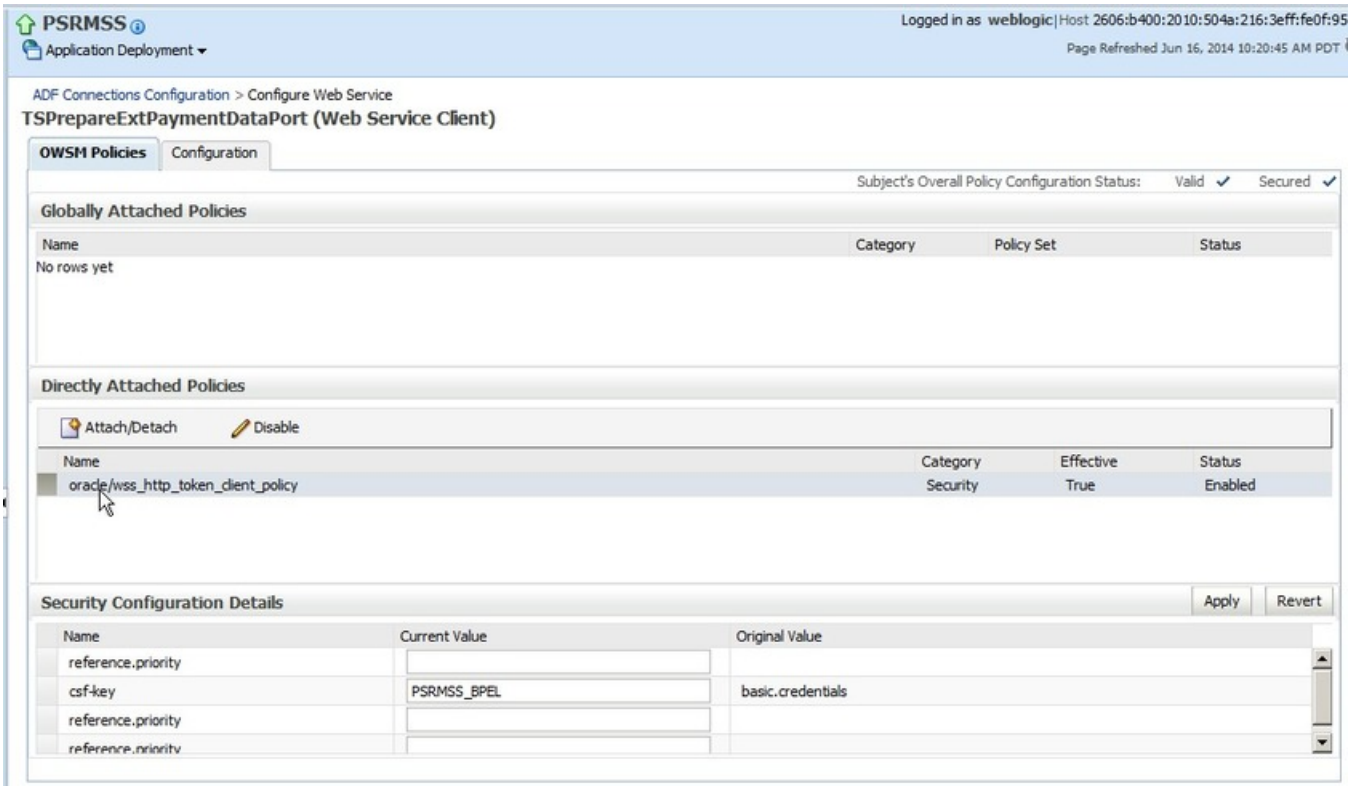


Figure 20: Verifying the policy and csf-key value

NOTE: If the correct policies are not properly attached to the Web Service Connection, see the troubleshooting section in this document on this subject under the heading, "*ADF Connection strings are not properly updated*".

5. Click on the **Configuration** tab. Check that the **Endpoint Address** has been properly updated to the correct endpoint address for your implementation.

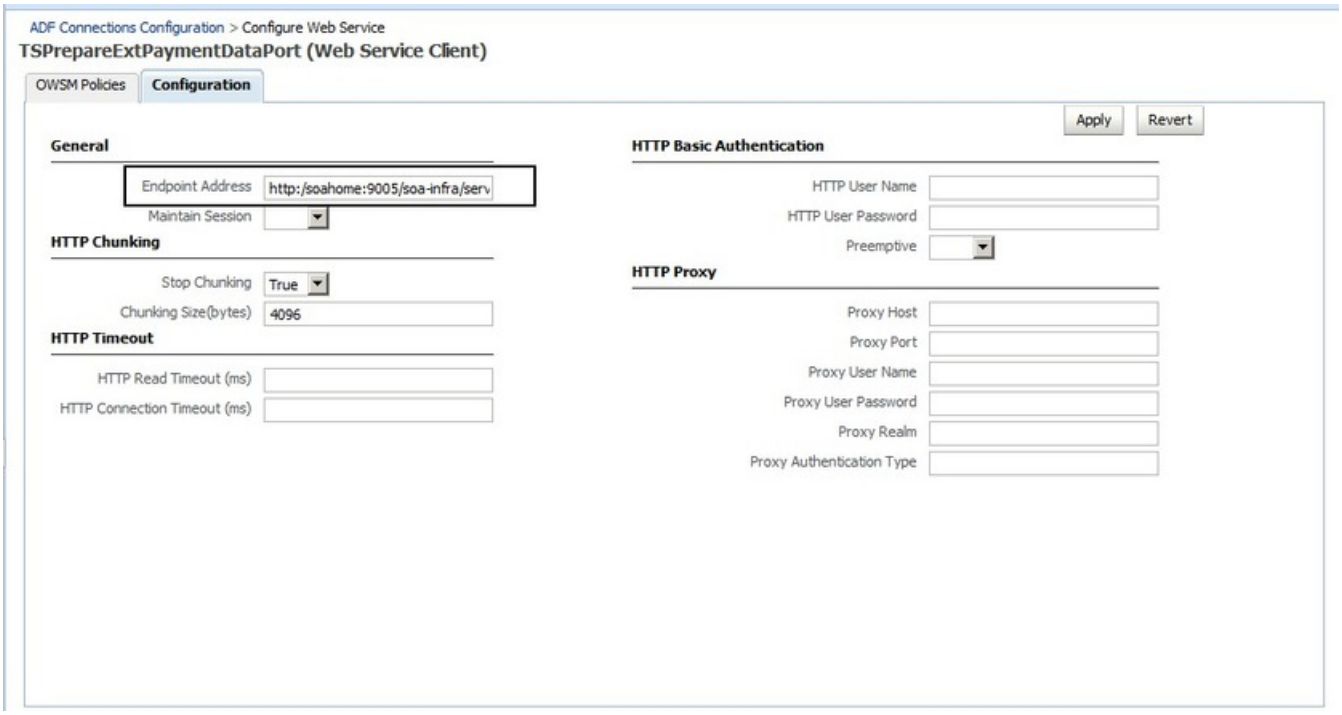


Figure 21: Verifying the endpoint address

Verifying the PSRMSS Schema Tables

1. Log in into the database with the PSRMSS dbuser/passwd credentials that you created during the installation process.
2. Verify that the following tables exist by executing the following query:

   ```
   select table_name from user_tables order by table_name;
   ```

   Results should be:

```
TS_ACCESS_TYPE
TS_ACCESS_TYPE_L
TS_ACCESS_TYPE_SUMMARY
TS_ADDRESS_CONFIG
TS_ADDRESS_CONFIG_FIELD
TS_ALERT_TYPE
TS_ALERT_TYPE_L
TS_CONFIGURATION
TS_EMAIL_DEFINITION
TS_EMAIL_DEFINITION_L
TS_FIELD
TS_FIELD_L
TS_FORM_ACTION
TS_FORM_COLUMN_WORK
TS_FORM_CUSTOM_PROPERTY
TS_FORM_DATATYPE
TS_FORM_DEFINITION
TS_FORM_DEFINITION_L
TS_FORM_LINE_WORK
TS_FORM_PROCESS_CONTROL
TS_FORM_SECTION_WORK
TS_FORM_VAL_RULE
TS_FORM_VERSION
```

```
TS_FORM_WORK
TS_INTERVIEW
TS_INTERVIEW_L
TS_INTERVIEW_SET
TS_INTERVIEW_SET_L
TS_LANGUAGE
TS_LINE_OF_BUSINESS
TS_LINE_OF_BUSINESS_L
TS_LOOKUP
TS_LOOKUP_L
TS_LOOKUP_VAL
TS_LOOKUP_VAL_L
TS_MESSAGE
TS_MESSAGE_L
TS_MESSAGE_PARAMETER
TS_PATCH_LOG
TS_PAYDEST_CUSTOM_PROPERTY
TS_PAYMENT_DESTINATION
TS_PAYMENT_DESTINATION_FIELD
TS_PAYMENT_DESTINATION_FIELD_L
TS_PAYMENT_DESTINATION_L
TS_PAYMENT_METHOD
TS_PAYMENT_PROVIDER
TS_PAYMENT_PROVIDER_L
TS_PROPERTY
TS_PROPERTY_L
TS_SERVICE_REQUEST_DEFN
TS_SERVICE_REQUEST_DEFN_L
TS_SERVICE_REQUEST_FIELD
TS_SERVICE_REQUEST_FIELD_L
TS_SVC_REQ_CUSTOM_PROPERTY
TS_VALIDATION_RULE
TS_VALIDATION_RULE_L
```

Verifying Creation of the PSRMSS Server

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your `weblogicAdminUser/weblogicAdminPassword` credentials.
2. Select the `<PSRMSS-domainname>`, then expand **Environment**, and click **Servers**.

   The server list should include the server name from your installation (as indicated by "psrmss_server1" in this example).

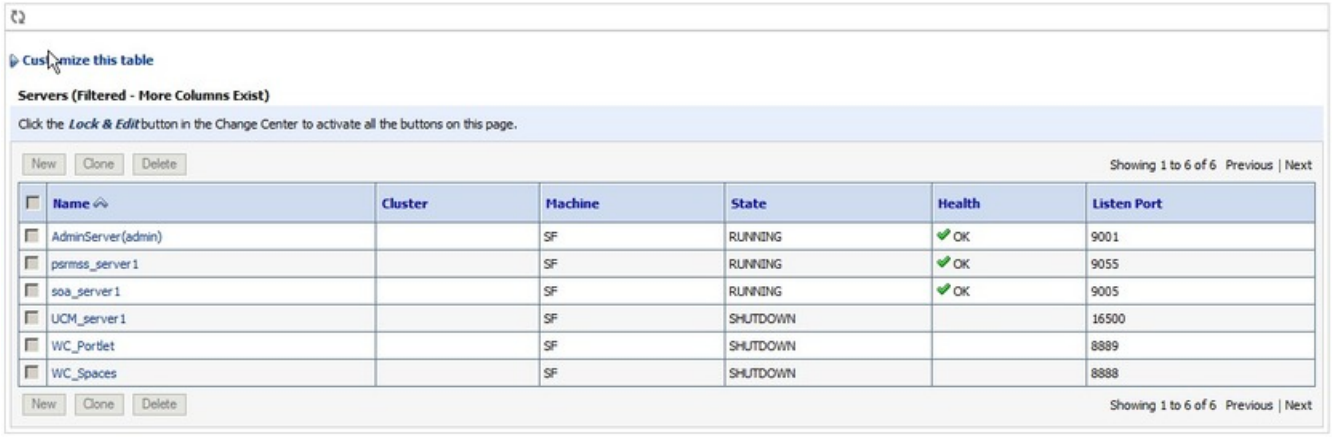


Figure 22: Verifying the installation server name

Verifying the WSSDS Data Source

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your `weblogicAdminUser/weblogicAdminPassword` credentials.
2. Select the `<PSRMSS-domainname>`, then expand **Services**, and click **Data Sources**.

   The list of data sources should include **WSSDS**, targeted to your server, as shown in the following image:

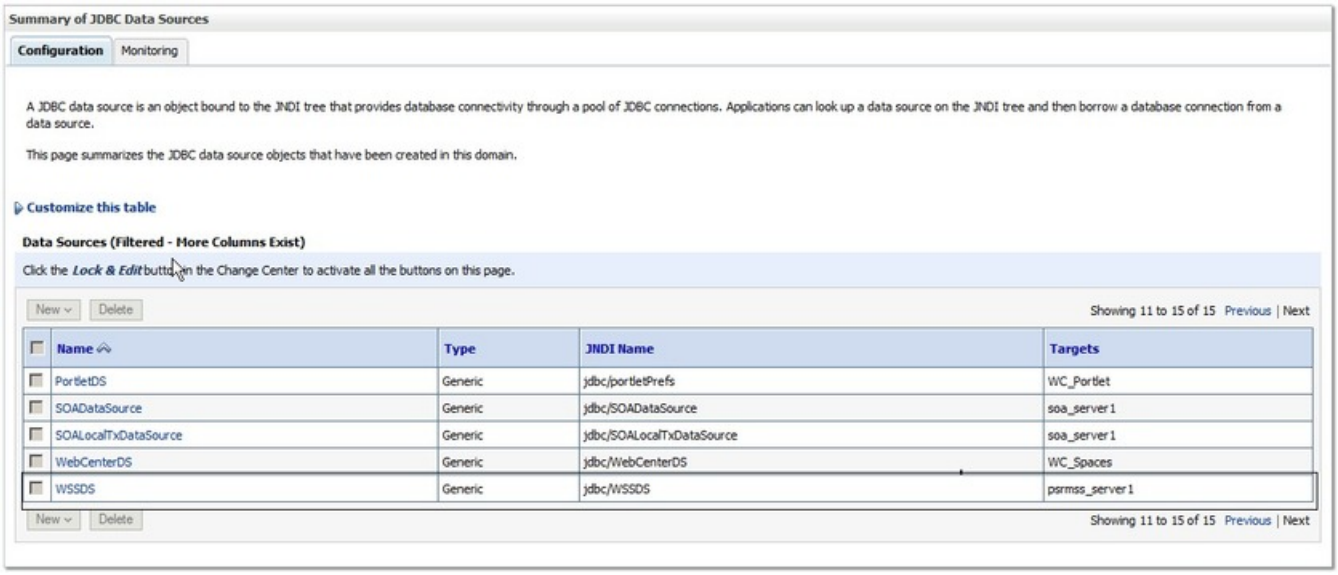


Figure 23: Verifying the JDBC/WSSDS data source

Verifying the mds-PSRMSS_MDS Data Source

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your `weblogicAdminUser/weblogicAdminPassword` credentials.
2. Select the `<PSRMSS_domain >`, then expand **Services**, and click **Data Sources**.

   The list of data sources should include **mds-PSRMSS_MDS**, targeted to your server, as shown in the following image:

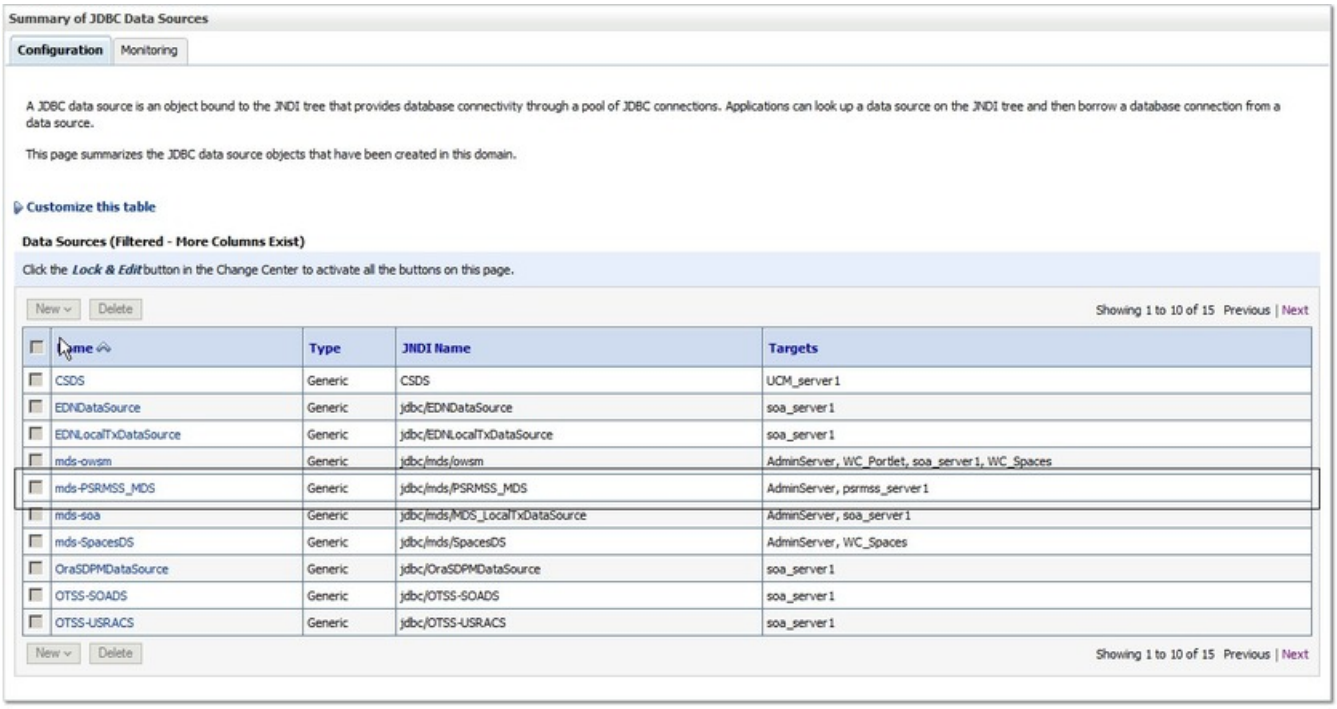


Figure 24: Verifying MDS data sources

Verifying the PSRMSSFormsAdmin Group

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your `weblogicAdminUser/weblogicAdminPassword` credentials.
2. Select **PSRMSS_domain** > **Security Realms** > **myrealm** > **Users and Groups**.

   The list of groups should include **PSRMSSFormsAdmin** and be part of the **Administrators** group, as shown in the following image:

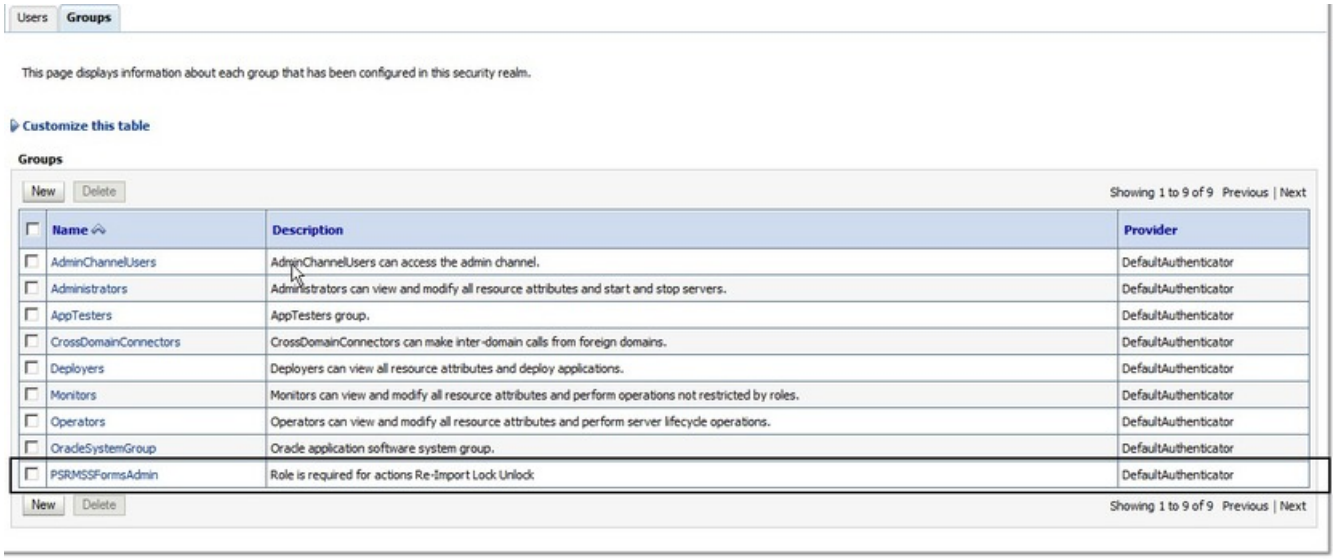


Figure 25: Verifying the PSRMSSFormsAdmin group

Verifying wasadmin User Creation

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your `weblogicAdminUser/weblogicAdminPassword` credentials.
2. Select **PSRMSS_domain** > **Security Realms** > **myrealm** > **Users and Groups**.

   The list of users should include **wasadmin** and be part of the **Administrators** and **PSRMSSFormsAdmin** groups, as shown in the following images:

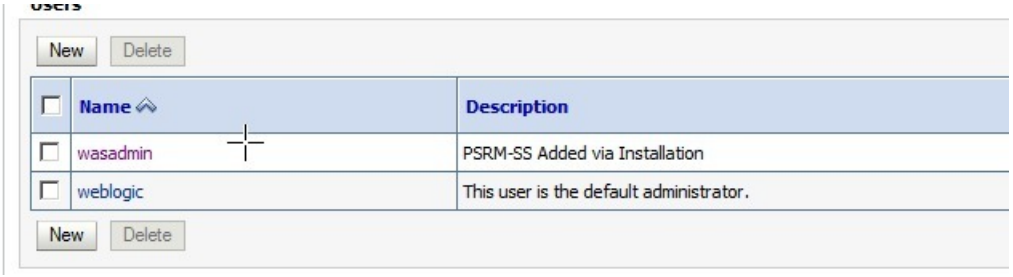


Figure 26: Verifying the wasadmin user

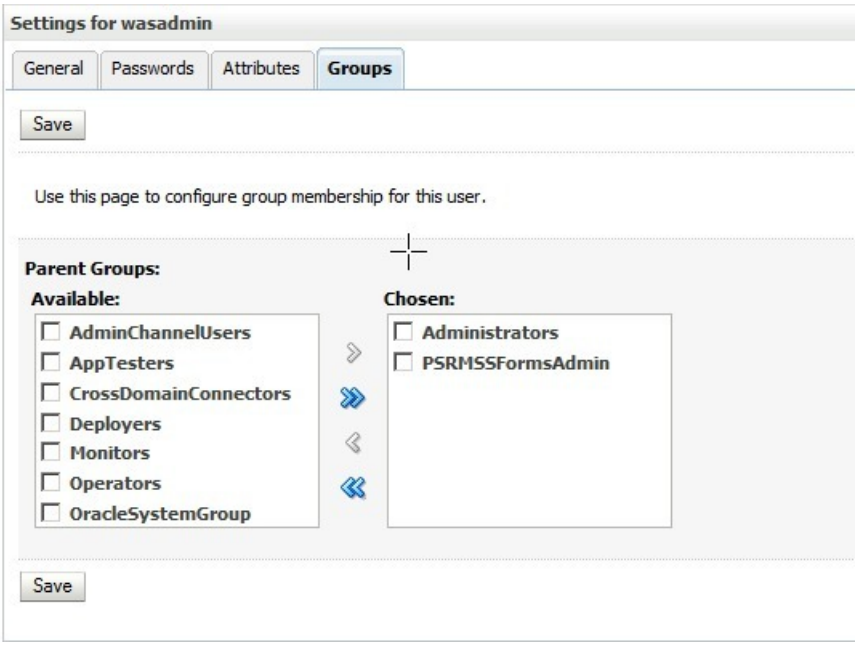


Figure 27: Specifying wasadmin group membership

Verifying Successful Application Deployment

1. Log in to the Oracle WebLogic Server console at `http://WLSHostName:WLSAdminServerPort/console` with your *weblogicAdminUser/weblogicAdminPassword* credentials.
2. Select the **<PSRMSS_domain>**, then expand **Summary of Deployments**.

   The list of deployments should include a oracle.psrmss.extension(1.0,1.0) shared library, as shown in the following image:

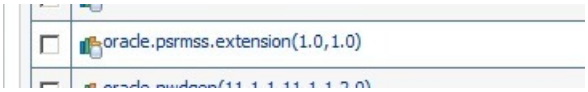


Figure 28: Verifying the shared library deployment

In addition, the list of deployments should include the PSRMSS application, as shown in the following image:

Figure 29: Verifying the application deployment

Verifying Successful Key Creation

1. Log in into the Oracle Enterprise Manager console at `http://WLSAdminHost:WLSAdminServerPort/em` with your *wlsadminuser/wlsadminpasswd* credentials.
2. Expand the **Farm_<PSRMSS_domain>** > **WebLogic Domain**, then right-click and choose **Security** > **Credentials**.

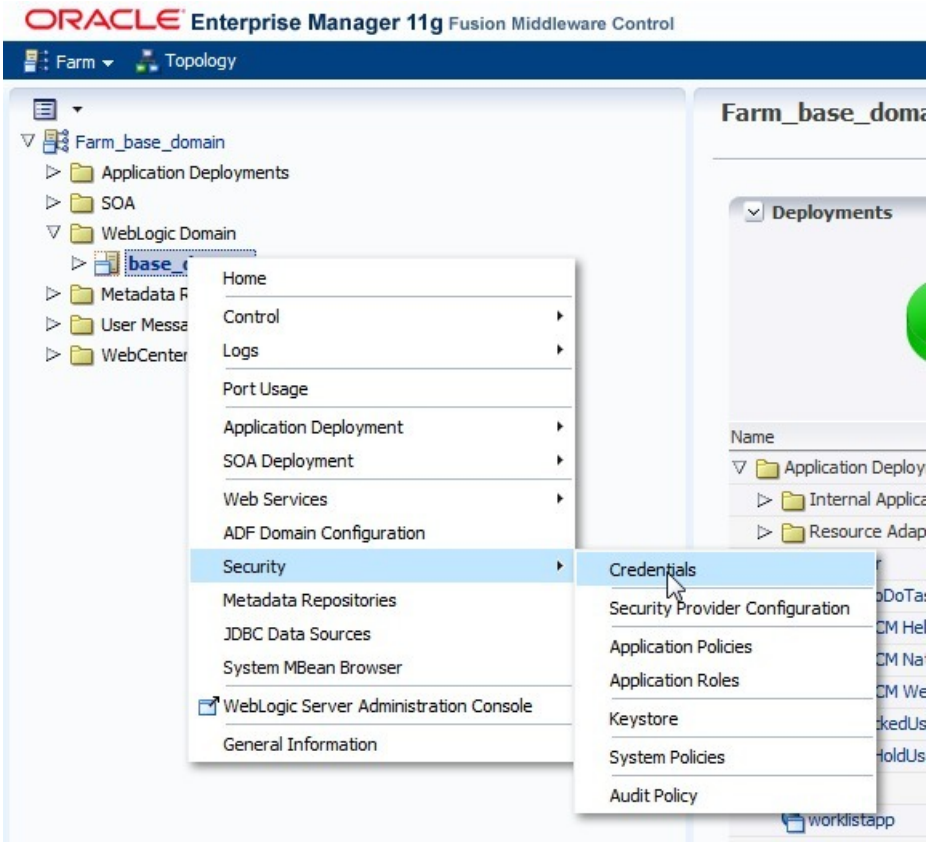


Figure 30: Navigating to the Security/Credentials item

3. Expand oracle.wsm.security and verify that the **PSRMSS_RMSYS** key is listed:

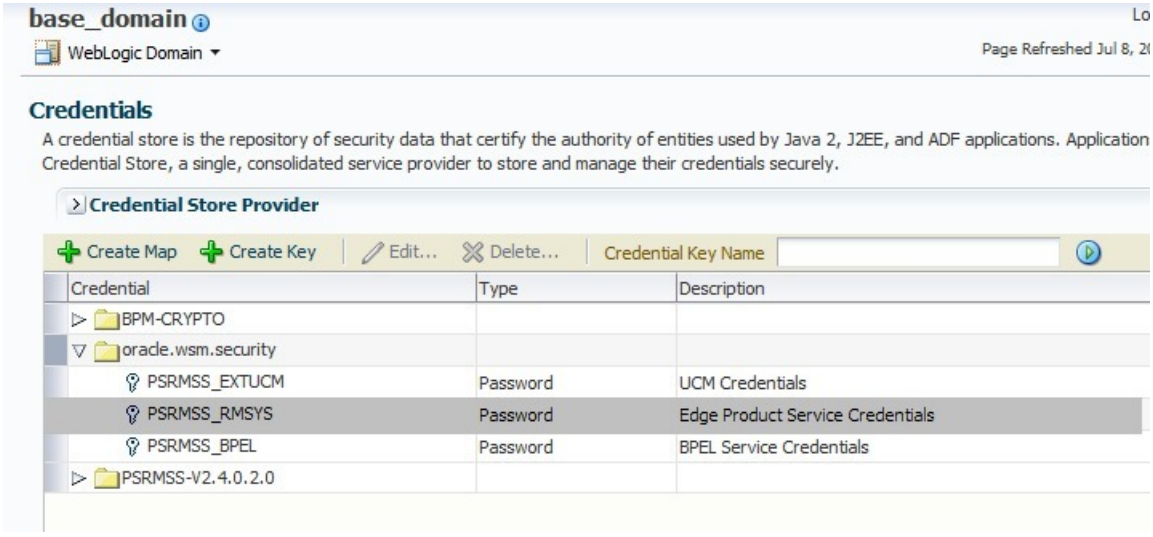


Figure 31: Verifying the security key

Accessing the PSRMSS Application

To access the PSRMSS application after a successful installation:

User	`http/s://<weblogic-Server>:<PSRM-ss-server-port>/PSRMss/faces/pages_home`
Admin login page	http/s://<weblogic-Server>:<PSRM-ss-server-port> /PSRMss/faces/oracle/webcenter/portalapp/pages/login.jspx
Main landing page	http/s://<weblogic-Server>:<PSRM-ss-server-port> /PSRMss/faces/oracle/webcenter/portalapp/pages/WSSHome.jspx

Configuring UCM for PSRMSS

UCM Configuration: Part 1

When the installation process is complete there are a few recommended configuration options that should be set in the UCM server in order to support the ability to include UCM content in the PSRMSS portal pages.

1. Log in to the Oracle UCM at `http://WLSAdminHost:UCMServerPortNumber/cs` with *wlsadminuser/wlsadminpasswd*. When this is the first login to the UCM server you will be asked to confirm the settings in order to finalize the installation of UCM. You need only confirm all settings—there is no need to change anything at this point—and proceed according to the instructions on the screen.
2. Restart the UCM Server after settings are confirmed.
3. Login to the UCM server again using the same credentials you used in the previous step. Expand the **Administration** category in the navigation area, then expand the **Admin Server** option.
4. Perform the following configuration steps:
   a) Select **Advanced Component Manager**.
   b) In **Disabled Components**, select (press shift+right-click to select multiple options):
      - folders_g

- FolderStructureArchive

c) Click **Enable**, then **Save**.

d) In the Admin Server window, select the **Component Manager** category in the navigation area, then select the **All Features** option. Browse down the list of components and ensure that the following are checked:

- WebcenterConfigure
- DynamicConverter

5. Click **Update**.

6. Restart the UCM Server.

UCM Configuration: Part 2

Use the following procedure to configure a socket connection for PSRMSS.

NOTE: The UCM server must be up and running.

1. Log in into the Oracle Enterprise Manager console at `http://WLSAdminHost:WLSAdminServerPort/em` with *wlsadminuser/wlsadminpasswd*.

2. Perform the following configuration steps:

a) Choose **WebCenter** > **Content** > **Content Server**, then select **Oracle WebCenter Content - Content Server (UCM Server 1).**

b) Right-click and select **Configuration PagesInternet Configuration**.

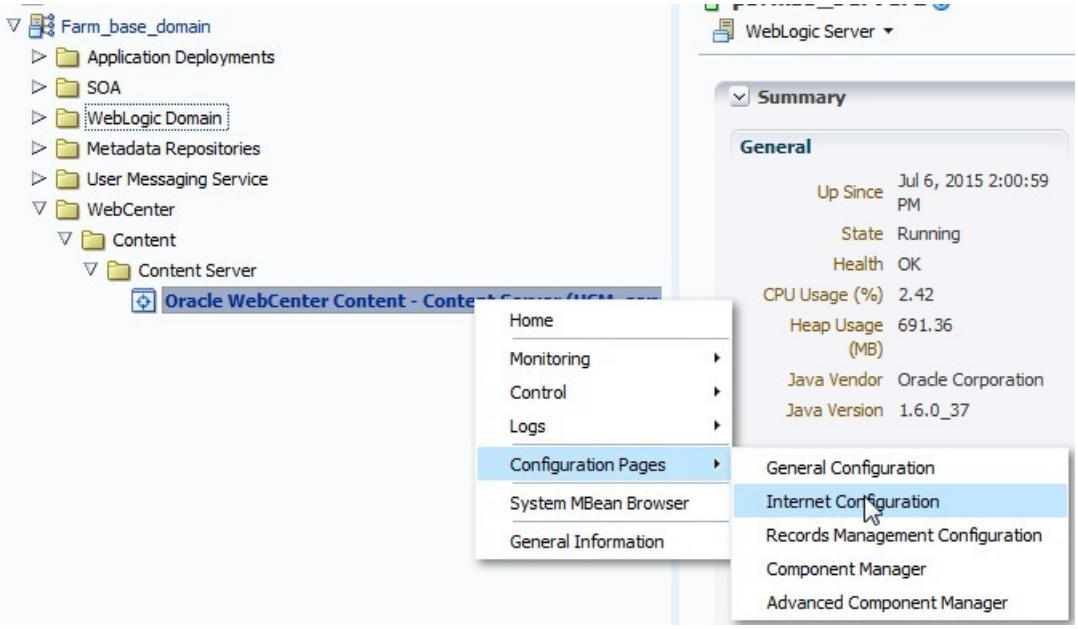


Figure 32: Navigating to Internet Configuration

c) Enter the following in the **Server Configuration** section:

- Set the **Intradoc ServerPort** to `4444`
- Modify the **IP Address Filter** list to add either a specific IP address or `*.*.*.*`

3. Restart the UCM Server.

Configuring SSL for a PSRMSS Server

For details on configuring SSL on a WebLogic server, see *Configuring SSL* (http://docs.oracle.com/cd/E23943_01/web.1111/e13707/ssl.htm) in the *Oracle Fusion Middleware Securing Oracle WebLogic Server* documentation.

NOTE: Implementing SSL is recommended for production environments.

Appendix A

BPEL/SOA installProperties.xml

The following listing shows the structure and sample data contained in installProperties.xml.

Security Note: After a successful installation it is recommended that the installProperties.xml file is moved to a secured location. It is also recommended that passwords supplied in the intallProperties.xml file be changed after the installation.

```
<?xml version="1.0" standalone="yes"?>
<config>
  <OTSS-ETPM>
    <modulename>OTSS-ETPM</modulename>
    <ETPM>
      <ApplicationUsername></ApplicationUsername>
      <ApplicationPassword></ApplicationPassword>
      <AdminServer>
        <protocol>http</protocol>
        <hostname></hostname>
        <portnumber> </portnumber>
        <servername>   </servername>
        <appcontextroot> </appcontextroot>
        <username>  </username>
        <password>    </password>
      </AdminServer>
      <ManagedServer>
        <hostname>   </hostname>
        <portnumber> </portnumber>
        <servername> </servername>
        <username> <username>
        <password>    </password>
      </ManagedServer>
    </ETPM>
    <WorkFlow.Notification>
      <from.emailid> </from.emailid>
    </WorkFlow.Notification>
  </OTSS-ETPM>
  <SOA>
    <AdminServer>
      <protocol>  </protocol>
      <hostname> </hostname>
      <portnumber> </portnumber>
      <servername> </servername>
      <username> </username>
```

```
      <password> </password>
      <domainname> </domainname>
      <adminemail> </adminemail>
    </AdminServer>
    <ManagedServer>
      <protocol>  </protocol>
      <hostname> </hostname>
      <portnumber> </portnumber>
      <servername> </servername>
      <username>  </username>
      <password> </password>
    </ManagedServer>
    <mdsconfig>
      <mdsdbusername> </mdsdbusername>
      <mdsdbuserpassword> </mdsdbuserpassword>
      <mdsdbhostname> </mdsdbhostname>
      <mdsdbportnumber> </mdsdbportnumber>
      <mdsdbsid>  </mdsdbsid>
    </mdsconfig>
    <JMS>
      <serverName>OTSSPSRMJMSServer</serverName>
      <ModuleName>OTSSPSRMJMSModule</ModuleName>
      <SubDeploymentName>OTSSPSRMSubDeployment</SubDeploymentName>
      <TargetServerName>soa_server1</TargetServerName>
      <PersitentStoreName>OTSSPSRMFileStore</PersitentStoreName>
      <PersitentStoreType>FileStores</PersitentStoreType>
      <PersistentStoreFilename> </PersistentStoreFilename>
    </JMS>
  </SOA>
  <UCM>
    <ManagedServer>
      <protocol>  </protocol>
      <hostname>  </hostname>
      <portnumber> </portnumber>
      <servername>  </servername>
      <username> </username>
      <password> </password>
    </ManagedServer>
  </UCM>
  <BI>
    <ManagedServer>
      <protocol>  </protocol>
      <hostname>  </hostname>
      <portnumber> </portnumber>
      <username>  </username>
      <password> </password>
      <reportLocation> </reportLocation>
    </ManagedServer>
  </BI>
  <DS>
    <dba.dbusername> </dba.dbusername>
    <dba.dbuserpassword> </dba.dbuserpassword>
    <dbusername> </dbusername>
    <dbuserpassword>  </dbuserpassword>
    <dbuser.createflag>true</dbuser.createflag>
    <dbhostname> </dbhostname>
    <dbportnumber> </dbportnumber>
    <dbsid>
    </dbsid>
  </DS>
  <USR>
    <dba.dbusername> </dba.dbusername>
    <dba.dbuserpassword>  </dba.dbuserpassword>
    <dbusername> </dbusername>
    <dbuserpassword>  </dbuserpassword>
    <dbuser.createflag>true</dbuser.createflag>
    <dbhostname> </dbhostname>
    <dbportnumber> </dbportnumber>
    <dbsid> </dbsid>
  </USR>
</config>
```

InstallProperties Descriptions and Examples

Security Values denote values that should be changed when in production.

Property	Description	Example
<config>		
<modulename>	Name of the integration module	Default: **OTSS-PSRM** Do not change this value.
<PSRM>		
<AdminServer>	Currently not used; leave subelements blank	
<protocol>	The protocol of the application (https or http)	
<hostname>	Host name of the server in which the PSRM admin server is installed	
<portnumber>	PSRM port number the admin server is listening to	
<servername>	Admin PSRM server name	
<username>	User name used to log in as an Admin server administrator	
<appcontextroot>	Context root of the PSRM Application	ouaf
<password>	Password used to log in as an Admin server administrator. **Note: This is a Security Value.**	
<ManagedServer>	Currently not used; leave this and subelement blank	
<hostname>	Currently not used; leave this and subelement blank	
<portnumber>	Currently not used; leave this and subelement blank	
<servername>	Currently not used; leave this and subelement blank	
<username>	Currently not used; leave this and subelement blank	
<password>	Currently not used; leave this and subelement blank	
<WorkFlow.Notification>		
<from.emailid>	Email ID which should be set in the “From” property of Workflow Notification bean	admin@oracle.com
<SOA>		
<protocol>	Currently not used; leave this as http	http
<hostname>	Host name of the server where admin server hosting SOA suite is installed.	soaadmin.oracle.com
<portnumber>	Port number the admin server (hosting SOA suite) is listening to.	7001
<servername>	Admin server name (hosting SOA suite)	AdminServer

Property	Description	Example
<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. **Note: This is a Security Value.**	
<domainname>	WebLogic domain name hosting SOA suite.	soa_domain
<adminemail>	Admin Email Address for OPC **Security Note**: When integrating between PSRMSS and OPC, it is not mandatory to use a secured connection configuration (SSL). It is recommended, however, to use a secured connection whenever possible, and the user should inquire about this option with Official Payment Corporation when implementing the integration with this payment processing vendor.	
<ManagedServer>		
<protocol>	Currently not used; leave this as http	http
<hostname>	Host name of the server where managed server (hosting SOA suite) is installed.	managedserver.oracle.com
<portnumber>	Port number the managed server (hosting SOA suite) is listening to.	8001
<servername>	Managed server name (hosting SOA suite)	soa-server1
<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. **Note: This is a Security Value.**	
<mdsconfig>		
<mdsdbusername>	User name used to log in to MDS schema.	DEV_MDS
<mdsdbuserpassword>	Password used to log in to MDS schema. **Note: This is a Security Value.**	
<mdsdbhostname>	Host name of the server hosting the database containing MDS schema	
<mdsdbportnumber>	Port number of the database containing MDS schema.	1521
<mdsdbsid>	SID of the database containing MDS schema	
<JMS>		
<serverName>	Server name hosting the JMS queue. **NOTE:** Queues are hosted and targeted on a WebLogic domain hosting SOA suite, do not change this value	OTSSETPMJMSServer
<ModuleName>	Module name hosting the JMS queue.	OTSSETPMJMSModule

Property	Description	Example
<SubDeploymentName>	Sub deployment name for JMS queues	OTSSETPMSubDeployment
<TargetServerName>	WebLogic managed server name.	soa-server1
<PersistentStoreName>	JMS persistent store name	OTSSETPMFileStore
<PersistentStoreType>	JMS persistent store name	FileStores
<PersistentStoreFilename>	JMS persistent store type (FileStores) This value should be pointing to directory that exists and is accessible.	/psrmss/filestore
<UCM>		
<protocol>	The protocol of the application (https or http).	
<hostname>	Host name of the server on which the managed server (hosting UCM Server) is installed.	
<portnumber>	Port number on which the managed UCM server is listening.	
<servername>	Managed server name for UCM_server1.	
<username>	User name used to log in to UCM; used to create the UCM Key.	
<password>	Password used to log in to UCM; used to create the UCM Key. **Note: This is a Security Value.**	
<BI>		
<protocol>	The protocol of the application (https or http).	
<hostname>	Host name of the server on which the managed server (hosting BI Server) is installed.	
<portnumber>	Port number on which the managed BI server is listening.	
<username>	User name used to log in to BI; used to create the connection to BI.	
<password>	User name used to log in to BI; used to create the connection to BI. **Note: This is a Security Value.**	
<reportLocation>	This value should be set to the report folder location in BI Publisher. Example value: `/~weblogic/Drafts/`	
<DS>		
<dba.dbusername>	User name used to log in as a database administrator (DBA). This database hosts the schema required for the PSRMSS Direct Flows Integration	system
<dba.dbuserpassword>	Password used to log in as a database administrator (DBA). **Note: This is a Security Value.**	

Property	Description	Example
<dbusername>	User name used to log in to OTSSBPEL schema for PSRMSS Direct Flows integration. 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 **PSRMSSBPEL** schema for PSRMSS Direct Flows Integration. **Note: This is a Security Value.**	
<dbuser.createflag>	Flag specifying whether to create a new schema or use the existing schema for PSRMSS Direct Flows Integration. If the schema is created manually outside of the installation process, then set this value to "false". Otherwise, set the value to "true", if the installation script should automatically create the schema. Valid values: *true* or *false* (case sensitive)	true
<dbhostname>	Database host name used for PSRMSS Direct Flows Integration.	Database.us.oracle.com
<dbportnumber>	Database port number used for PSRMSS Direct Flows Integration.	1521
<dbsid>	Database SID used for PSRMSS Direct Flows Integration.	SID
<USR>		
<dba.dbusername>	User name used to log in as a database administrator (DBA). This database hosts the schema required for the User Enrollment Integration.	
<dba.dbuserpassword>	Password used to log in as a database administrator (DBA). **Note: This is a Security Value**	
<dbusername>	User name used to log in to User Enrollment schema for PSRMSS Direct Flows integration. This user can be automatically created by the install (set *dbuser.createflag* to true) or can be created manually outside of the install process.	
<dbuserpassword>	Password used to log in to users schema for User Enrollment. **Note: This is a Security Value.**	
<dbuser.createflag>	Flag specifying whether to create a new schema or use the existing schema for Users schema. If the schema is created manually outside of the installation process, then set this value to "false". Otherwise, set the value to "true" if the	true

Property	Description	Example
	installation script should automatically create the schema. Valid values: *true* or *false* (case sensitive).	
<XdbhostnameXX>	Database host name used User Enrollment.	database.us.oracle.com
<dbportnumber>	Database port number used for User Enrollment.	1521
<dbsid>	Database SID used for User Enrollment. This stores information about different users of the Self Service Application, you may want to consider placing this User Schema in a different database than in the PSRMSS Direct Flows Integration.	SID

Appendix B

RCU Database Creation (Sample)

When creating the RCU database you should configure the following components.

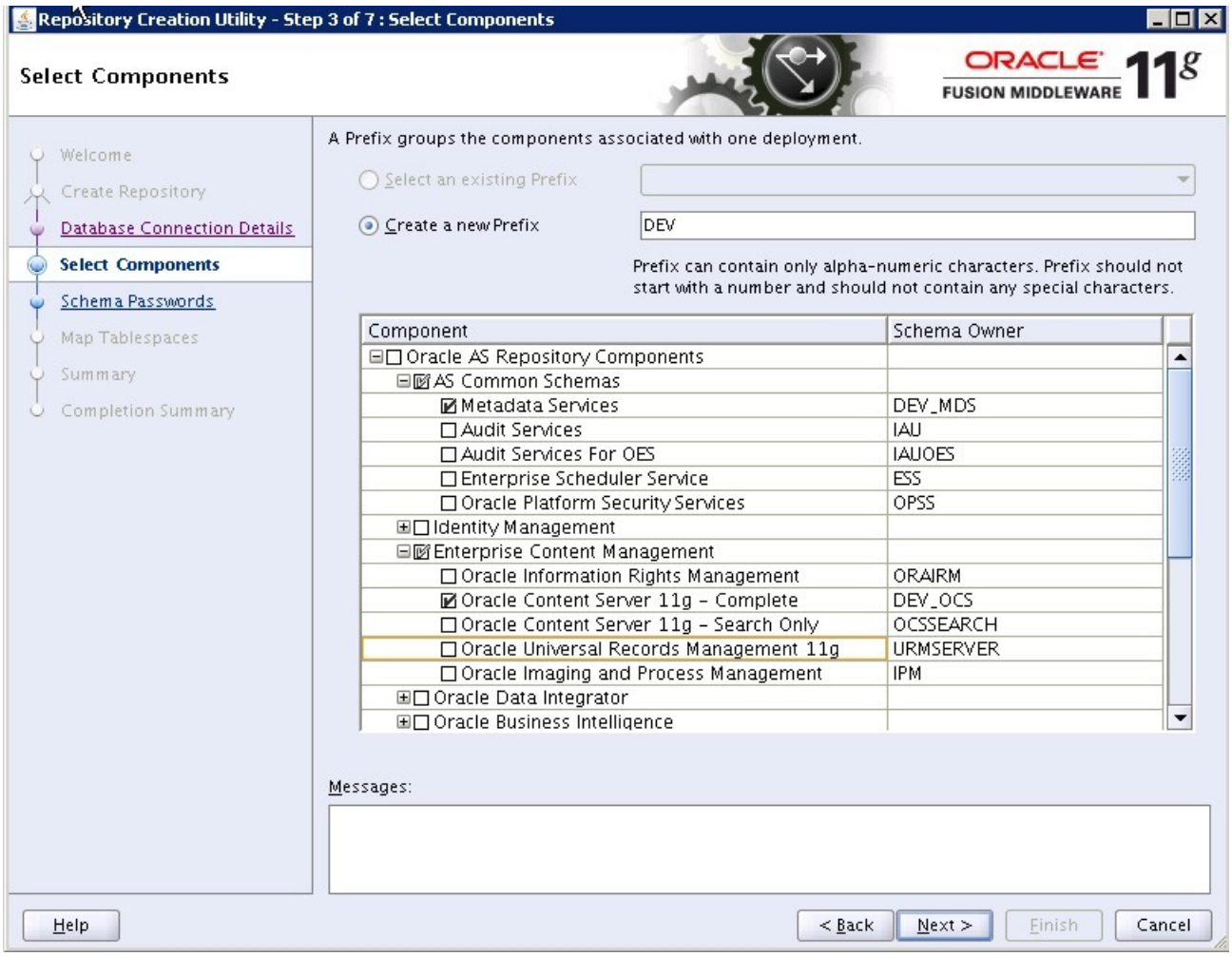


Figure 33: Repository Creation Utility: Selecting components

Required RCU Components	Schema Owner
Metadata Services	<PREFIX>_MDS
Oracle Content Server 11g - Complete	<PREFIX>_OCS
SOA Infrastructure	<PREFIX>_SOAINFRA
User Messaging Service	<PREFIX>_ORASDPM
WebCenter Spaces	<PREFIX>_WEBCENTER
Portlet Producers	<PREFIX>_PORTLET
Activity Graph and Analytic	<PREFIX>_ACTIVITIES

You will also need to create a separate MDS schema in the database for the PSRMSS application.

Required RCU Components	Schema Owner
Metadata Services	<PREFIX>_MDS

Appendix C

PSRMSS Sample Domain Creation

The following is a sample of the extension that will be needed to be installed prior to installing PSRMSS.

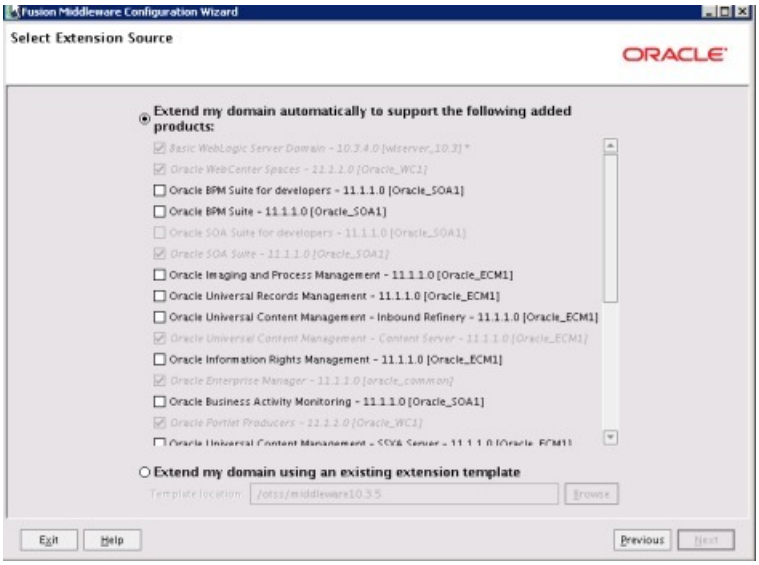


Figure 34: Selecting a domain extension source

The following components need to be selected for the domain:

- Basic WebLogic Server Domain
- Oracle WebCenter Spaces
- Oracle Portlet Producers
- Oracle Enterprise Manager
- Oracle SOA Suite
- Oracle WebCenter Activities Graph Engine

- Oracle WebCenter Spaces
- Oracle Universal Content Management
- Oracle WebCenter Analytics Collector
- Oracle WSM Policy Manager
- Oracle JRF

In the configure JDBC Component Schema screen, you should see following Components if the correct extensions are selected in the previous steps of the domain creation.

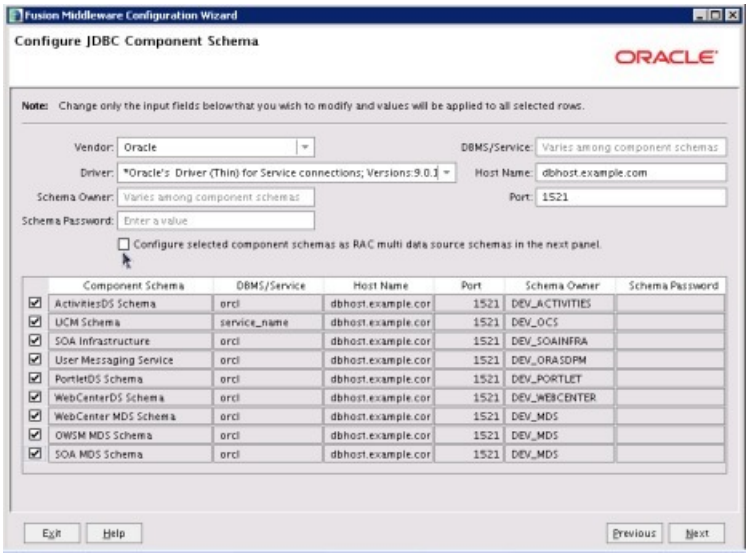


Figure 35: Configuring the JDBC Component Schema

Appendix D

Sample Oracle WebLogic Data Sources

The following are the sample layout of the data sources that should be present in your domain when working with PSRMSS:

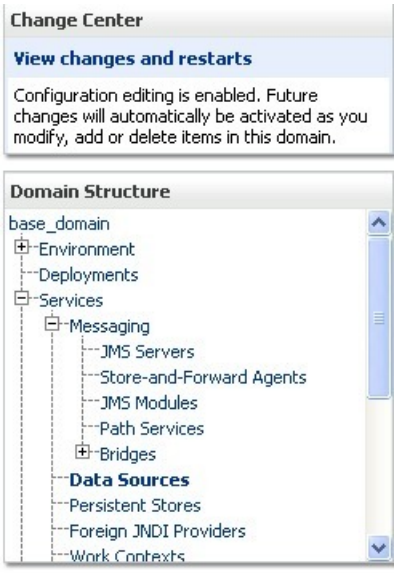
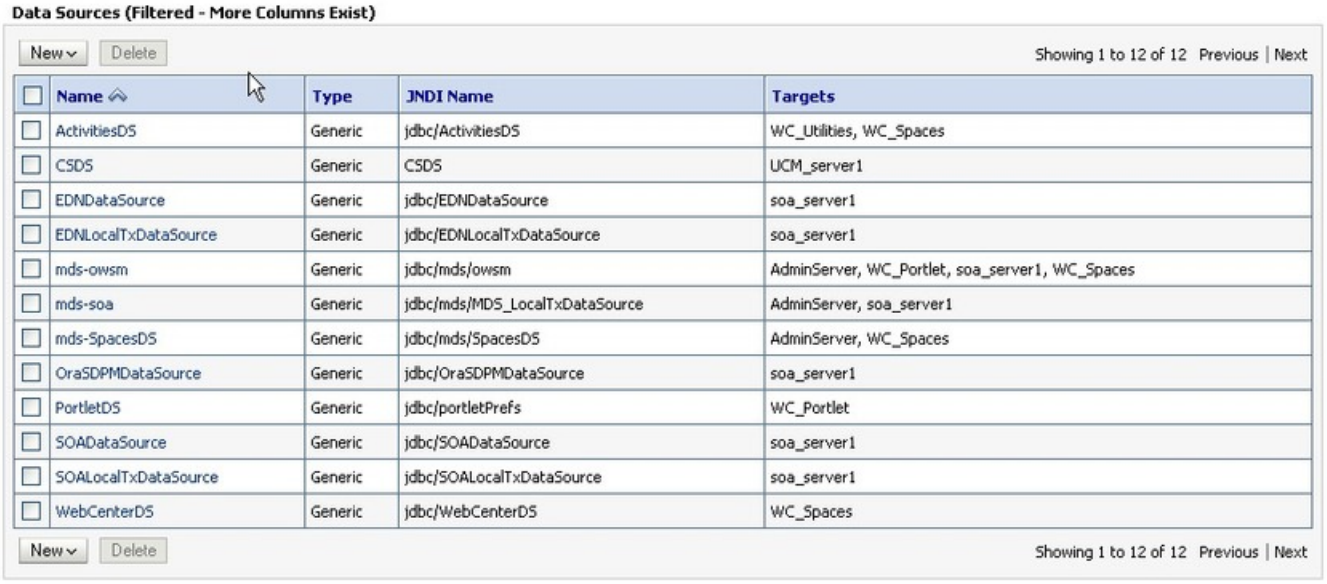


Figure 36: Domain Change Center



Data Sources (Filtered - More Columns Exist)

New | Delete — Showing 1 to 12 of 12 Previous | Next

Name	Type	JNDI Name	Targets
ActivitiesDS	Generic	jdbc/ActivitiesDS	WC_Utilities, WC_Spaces
CSDS	Generic	CSDS	UCM_server1
EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1
EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
mds-owsm	Generic	jdbc/mds/owsm	AdminServer, WC_Portlet, soa_server1, WC_Spaces
mds-soa	Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1
mds-SpacesDS	Generic	jdbc/mds/SpacesDS	AdminServer, WC_Spaces
OraSDPMDataSource	Generic	jdbc/OraSDPMDataSource	soa_server1
PortletDS	Generic	jdbc/portletPrefs	WC_Portlet
SOADataSource	Generic	jdbc/SOADataSource	soa_server1
SOALocalTxDataSource	Generic	jdbc/SOALocalTxDataSource	soa_server1
WebCenterDS	Generic	jdbc/WebCenterDS	WC_Spaces

New | Delete — Showing 1 to 12 of 12 Previous | Next

Figure 37: Selecting domain data sources

Appendix E

Sample Summary of Servers

The following are the servers that need to be installed into the domain prior to installing PSRMSS.

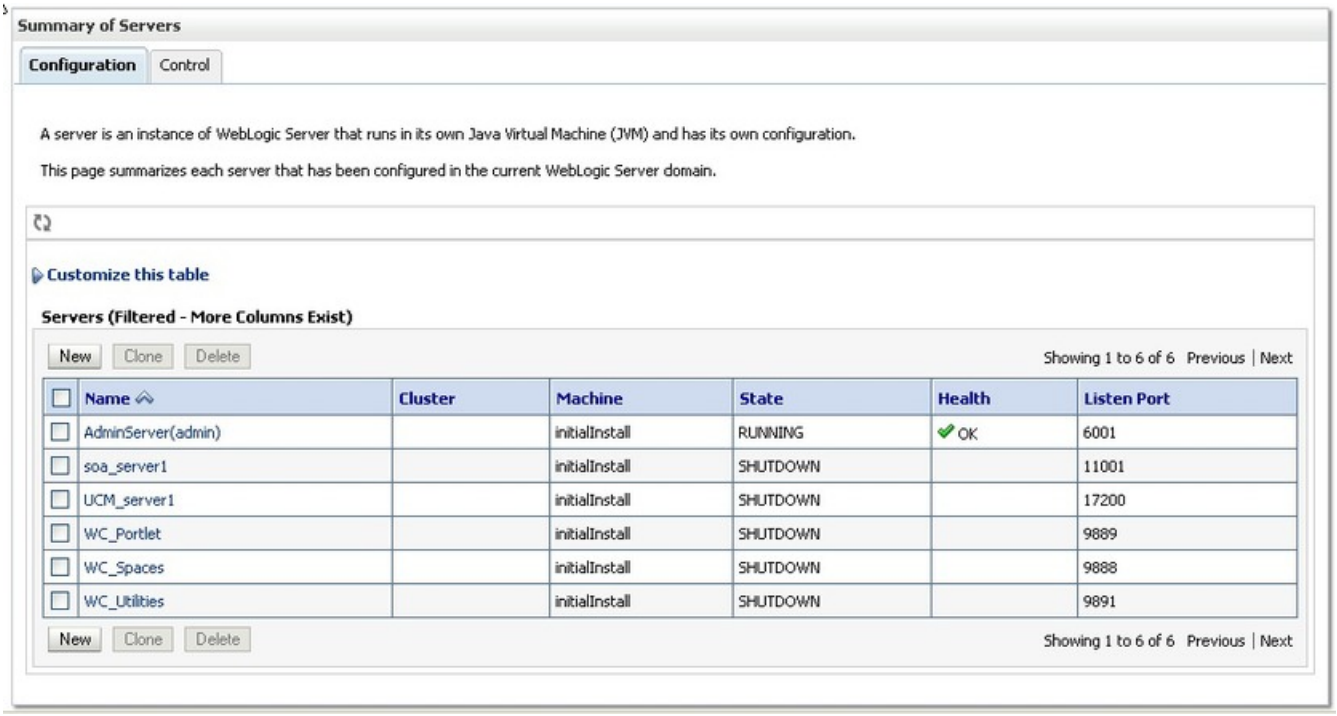


Figure 38: Summary of Servers

Appendix F

Installation Properties

The following listing shows the structure and sample data contained in PSRM-SS-InstallProperties.xml file.

Security Note: After a successful installation it is recommended that the PSRM-SS-InstallProperties.xml file be moved to a secured location. It is also recommended that passwords supplied in the PSRM-SS-InstallProperties.xml file be changed. The values that should be changed are marked with "Security Value" in the description fields in the table that follows the file listing.

```
<?xml version="1.0" standalone="yes"?>
<config>
     <WSS>
          <modulename>PSRM-SS-APPLICATION</modulename>
           <otss>
               <username> </username>
               <password> </password>
               <AdminServer>
                    <protocol>t3</protocol>
                    <hostname> </hostname>
                    <portnumber> </portnumber>
                    <servername>AdminServer</servername>
                    <usekeyfile>false</usekeyfile>
                    <username> </username>
                    <password> </password>
                    <userconfigfile> </userconfigfile>
                    <userkeyfile> </userkeyfile>
                    <domainname> </domainname>
                    <realmName> </realmName>
                </AdminServer>
               <ManagedServer>
                    <hostname> </hostname>
                    <portnumber> </portnumber>
                    <servername>psrmss_server1</servername>
                    <machine> </machine>
                    <clustername></clustername>
               </ManagedServer>
               <DB>
                    <dba.dbusername> </dba.dbusername>
                    <dba.dbuserpassword> </dba.dbuserpassword>
                    <dbusername> </dbusername>
                    <dbuserpassword> </dbuserpassword>
```

```
                    <dbuser.createflag>true</dbuser.createflag>
                    <dbhostname> </dbhostname>
                    <dbportnumber> </dbportnumber>
                    <dbsid> </dbsid>
                    <script>select 1 from dual</script>
               </DB>
               <mdsconfig>
                    <mdsdbusername> </mdsdbusername>
                    <mdsdbuserpassword> </mdsdbuserpassword>
                    <mdsdbhostname> </mdsdbhostname>
                    <mdsdbportnumber> </mdsdbportnumber>
                    <mdsdbsid> </mdsdbsid>
               </mdsconfig>
          </otss>
          <UCM>
               <hostnamejcr> </hostnamejcr>
               <portnumberjcr> </portnumberjcr>
          </UCM>
          <SOA>
              <ManagedServer>
                    <hostname> </hostname>
                    <portnumber> </portnumber>
                    <servername>soa_server1</servername>
        <createbpelmap>true</createbpelmap>
    <adminusername> </adminusername>
    <adminpassword> </adminpassword>
                    <protocol>http</protocol>
               </ManagedServer>
           </SOA>
     </WSS>
</config>
```

PSRM-SS-InstallProperties.xml Descriptions and Examples

Security Note: Security values denote values that should be changed when in production.

XPath	Description	Example
Modulename	ModuleName for which this installation property is used. Not used by installation framework. Hardcoded to "PSRM-SS-APPLICATION".	
/config/otss/username	The username used to access the PSRMSS Application. This will be created during the installation.	
/config/otss/password	The password that will be used to access the PSRMSS Application. This will be the password of the user that will create during the application. The password needs to be at least eight characters long. **Note: This is a Security Value.**	
/config/otss/AdminServer/protocol	The protocol to access the admin console Leave the default of t3; this will be used in future releases.	t3
/config/otss//AdminServer/ hostname	Hostname of Admin Server of WebLogic domain hosting the PSRMSS application	PSRM-SS-hostname.oracle.com
/config/otss//AdminServer/portnumber	Port Number of Admin Server of WebLogic domain hosting the PSRMSS application	7001

XPath	Description	Example
/config/otss//AdminServer/servername	Managed server name for the Admin Server hosting server.	AdminServer
/config/otss//AdminServer/userkeyfile	When this value is set to *true*, the userconfigfile and userkeyfile are used to connect to the server.	false
/config/otss//AdminServer/username	Admin Username which should be used to access the Admin Server.	weblogic
/config/otss//AdminServer/password	Admin Password which should be used to access the Admin Server **Note: This is a Security Value.**	WLSAdminPasswd
/config/otss//AdminServer/userconfigfile	This value should be set to the location of the user configuration file.	The value does not need to be set unless you are using the user store configuration.
/config/otss//AdminServer/userkeyfile	This value should be set to the location of the user key file.	The value does not need to be set unless you are using the user store configuration.
/config/otss//AdminServer/domainname	WebLogic domain name hosting the PSRMSS managed server.	base_domain
/config/otss//AdminServer/realmname	Realm name of the embedded WebLogic LDAP configured for WebLogic domain hosting PSRMSS	myrealm
/config/otss//ManagedServer/hostname	Hostname of Managed server hosting PSRMSS. Note: This is used during the installation process.	PSRM-SS-hostname.oracle.com
/config/otss//ManagedServer/portnumber	Managed server port number. Note: This is used during the installation process. The port number should not be in use by a different process on the server.	
/config/otss//ManagedServer/servername	Managed server name hosting PSRMSS. Note: This is created during the installation process.	psrmss_server1
/config/otss//ManagedServer/machinename	Machine name to associate with the managed server name hosting PSRMSS Note: The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers during the installation process.	Qa
/config/otss//DB/dba.dbusername	Sys user to connect to DB which will host WSS-specific DB objects.	system Note: If using sys user then use "sys as sysdba".
/config/otss//DB/dba.dbuserpassword	sys user password. **Note: This is a Security Value.**	
/config/otss//DB//dbusername	Database username which will host PSRMSS specific DB objects.	WSSADM

XPath	Description	Example
/config/otss//DB/dbuserpassword	Password of DB username which will host PSRMSS specific DB objects. **Note: This is a Security Value.**	
/config/otss///DB/dbuser.createflag	Flag to state whether to create database user or specify if user already exists. Valid values: **true** – Create user during the installation of PSRMSS.	true
/config/otss///DB/dbhostname	Hostname to connect to Databases	databaseserver.oracle.com
/config/otss///DB/dbportnumber	Port Number to connect to Database	1521
/config/otss///DB/dbsid	SID/service name to connect to database	DBSID
/config/otss/mdsconfig/mdsdbusername	Username of schema hosting MDS for WSS application. Note: This should be the user that was created for the for the empty MDS Schema.	PSRMSS_MDS
/config/otss/mdsconfig/mdsdbuserpassword	Password to connect to the schema. **Note: This is a Security Value.**	
/config/otss/mdsconfig/mdsdbhostname	Hostname to connect to Database	databaseserver.oracle.com
/config/otss/mdsconfig/mdsdbportnumber	Port Number to connect to DB	1521
/config/otss/mdsconfig/mdsdbsid	SID/service name to connect to schema	DBSID
/config/otss/UCM/hostnamejcr	Hostname of the UCM Server	UCM-HostName.oracle.com
/config/otss/UCM/portnumberjcr	JCR Port Number of the UCM Server.	
/config/otss/SOA/hostname	Hostname of the SOA Server	SOA-HostName.oracle.com
/config/otss/SOA/portnumber	SOA Port Number of the SOA Server	8001
/config/otss/SOA/servername	SOA Server Name	soa_server1
/config/otss/SOA/createbpelmap	This value specifies whether to create the Map for the connection between PSRMSS and the SOA endpoints.	true
/config/otss/SOA/adminuser	This username is used to create the map for the connection between PSRMSS and the SOA endpoints.	weblogic
/config/otss/SOA/adminpassword	This value of password is used to create the map for the connection between PSRMSS and the SOA end points. **Note: This is a Security Value.**	
/config/otss/SOA/protocol	The protocol to access the SOA Server (https or http) **Note: This is a Security Value**; it is recommended that the connection between the Portal Application and the SOA server be SSL-enabled.	http

Appendix G

Installer Utility Overview

The installation utility has several different input options that can be passed in as input. The following table contains the available options:

Table 1: Installation Options

Option	Description	Tasks Performed
i	Full installation of PSRMSS	• Creates a WebLogic managed server • Links needed Libraries and applications to the WebLogic managed server • Creates a MetaData Repository mds-PSRMSS_MDS • Creates a Database Source WSSDS • Deploys PSRMSS shared library • Configures and Deploys PSRMSS ear File • Creates and Installs a Database Schema for PSRMSS
d	Full uninstallation of PSRMSS	• Removes a WebLogic managed server • Removes a MetaData Repository mds-PSRMSS_MDS • Removes a Database Source WSSDS • Undeploys PSRMSS ear File • Undeploys PSRMSS shared library • Drops a Database Schema for PSRMSS
r	Redeployment of PSRMSS components	• Undeploys PSRMSS Application ear • Deploys PSRMSS Application ear • Undeploys PSRMSS shared library

Option	Description	Tasks Performed
		• Deploys PSRMSS shared library

The installer will continue with the installation should a task fail. Failures will be listed on the screen as a summary at the end of the installation, along with the install.log file. You can rerun the installer after corrective action is taken.

Appendix H

URL Examples

Component	URL Syntax
WebLogic EM Console	http://<weblogicHost>:<webLogicPortNumber>/em
WebLogic Console	http://<weblogicHost>:<webLogicPortNumber>/console
SOA Composer	http://<SOAHost>:<SOAPortNumber>//soa/composer
UCM Console	http://<UCMHost>:<UCMPortNumber>/cs

Appendix I

Integration Environment Settings Example

The following is an example of setting the needed environment variables for the PSRMSS-PSRM Integration.

On Linux:

```
PRODUCT_HOME=/ouaf/versions/Releases/PSRMSS/BPEL-Release-V2.4.0.2.0-InitialInstall/OTSS-PSRM/;
   export PRODUCT_HOME
WL_HOME=/PSRM-SS/qa2_middleware1035/; export WL_HOME
SOA_HOME=PSRM-SS/qa2_middleware1035/Oracle_SOA1; export SOA_HOME
ORACLE_HOME=/PSRM-SS/qa2_middleware1035/Oracle_SOA1; export ORACLE_HOME
source "${WL_HOME}/wlserver_10.3/server/bin/setWLSEnv.sh"

cd $PRODUCT_HOME/bin
```

On Windows:

```
SET PRODUCT_HOME=C:\download\Release\PSRM-SS\OTSS-Release-V2.4.0.2.0-InitialInstall\OTSS-PSRM
SET WL_HOME=C:\PSRM-ss\middleware10.3.6;
SET SOA_HOME=C:\PSRM-ss\middleware10.3.6\Oracle_SOA1
SET ORACLE_HOME=C:\PSRM-ss\middleware10.3.6\Oracle_SOA1;
run C:\PSRM-ss\middleware10.3.6\wlserver_10.3\server\bin\setWLSEnv.cmd

cd %PRODUCT_HOME%\bin
```

For additional details, see *Appendix A*.

Appendix J

PSRMSS Environment Settings Example

The following is an example of setting the needed environment variables for the installation of PSRMSS.

On Linux:

```
PRODUCT_HOME=/PSRM-ss/version/PSRMSS-Release-V2.4.0.2.0-InitialInstall/; export PRODUCT_HOME
WL_HOME=/ PSRM-ss /middleware10.3.6; export WL_HOME
SOA_HOME=/ PSRM-ss /middleware10.3.6/Oracle_SOA1; export SOA_HOME
ORACLE_HOME=/ PSRM-ss /middleware10.3.6/Oracle_SOA1; export ORACLE_HOME
source "${WL_HOME}/wlserver_10.3/server/bin/setWLSEnv.sh"
cd $PRODUCT_HOME/bin
```

On Windows:

```
SET PRODUCT_HOME=C:\download\Release\PSRM-SS\PSRMSS-Release-V2.4.0.2.0-InitialInstall\
SET WL_HOME=C:\PSRM-SS\middleware10.3.6;
SET SOA_HOME=C:\PSRM-SS\middleware10.3.6\Oracle_SOA1
SET ORACLE_HOME=C:\PSRM-SS\middleware10.3.6\Oracle_SOA1;
run C:\PSRM-SS\middleware10.3.6\wlserver_10.3\server\bin\setWLSEnv.cmd

cd %PRODUCT_HOME%\bin
```

Appendix K

Security Notes

The following documents provide additional information on securing the application.

Configuring SSL on a WebLogic server:

- *http://docs.oracle.com/cd/E23943_01/web.1111/e13707/ssl.htm*

WebLogic Security:

- *http://docs.oracle.com/cd/E23943_01/web.1111/e13711/thin_client.htm*

Securing SOA (BPEL):

- *http://docs.oracle.com/cd/E17904_01/integration.1111/e10226/soacompapp_secure.htm*

Securing UCM:

- *http://docs.oracle.com/cd/E14571_01/doc.1111/e10792/c03_security002.htm*

Appendix L

Sample: Reassociating the Identity Store with an External LDAP (OUD)

This appendix describes how to configure the identity store to use an external LDAP server, such as an Oracle Unified Directory, rather than the default embedded LDAP.

To reassociate the identity store:

- Log in to the WebLogic Administration Console.
- Navigate to the Domain Structure.

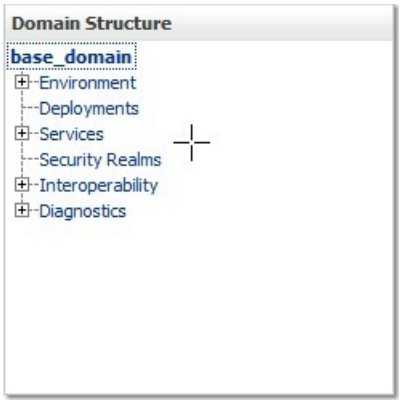


Figure 39: Domain Structure pane

The Summary of Security Realms pane displays:

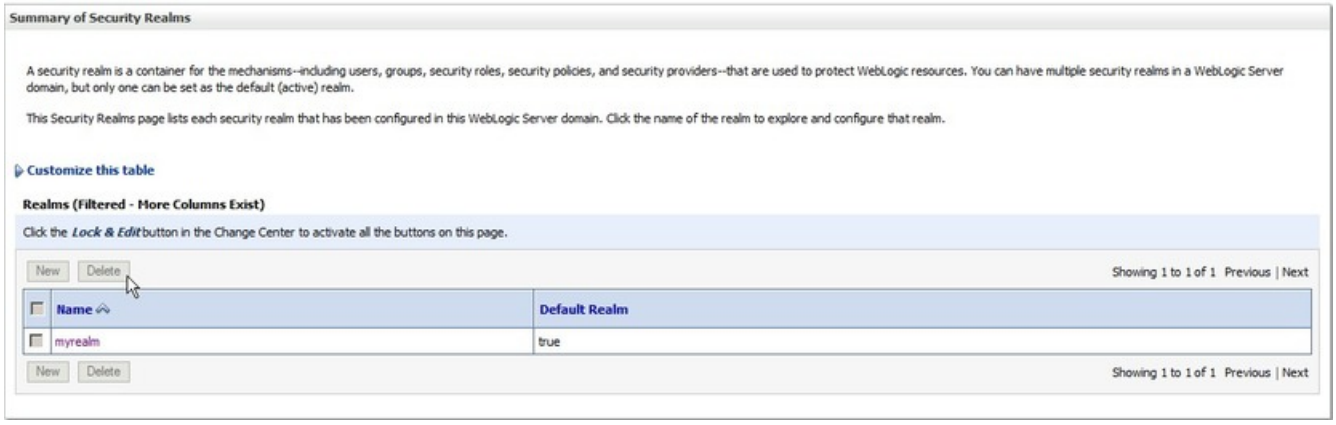


Figure 40: Summary of Security Realms pane

In the **Name** column, click the realm for which you want to reassociate the identity store.

The Realm Settings pane displays:

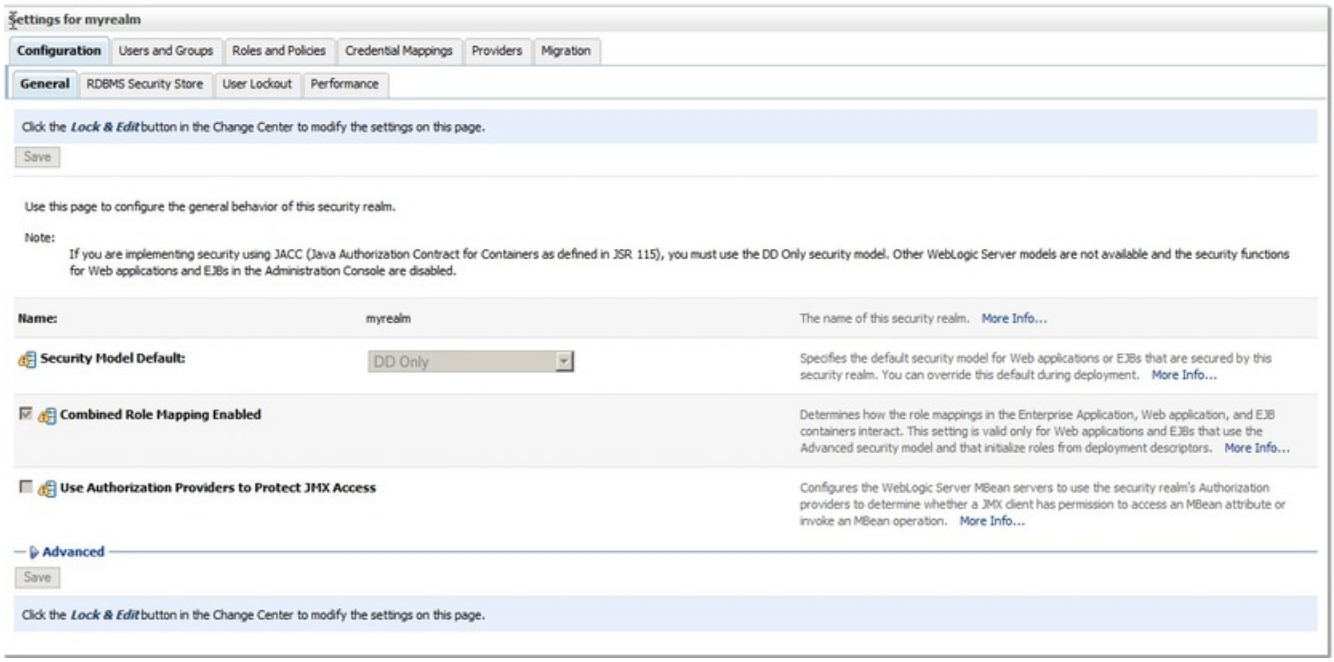


Figure 41: Realm Settings pane

- Open the **Providers** tab.

  The Providers Settings pane displays:

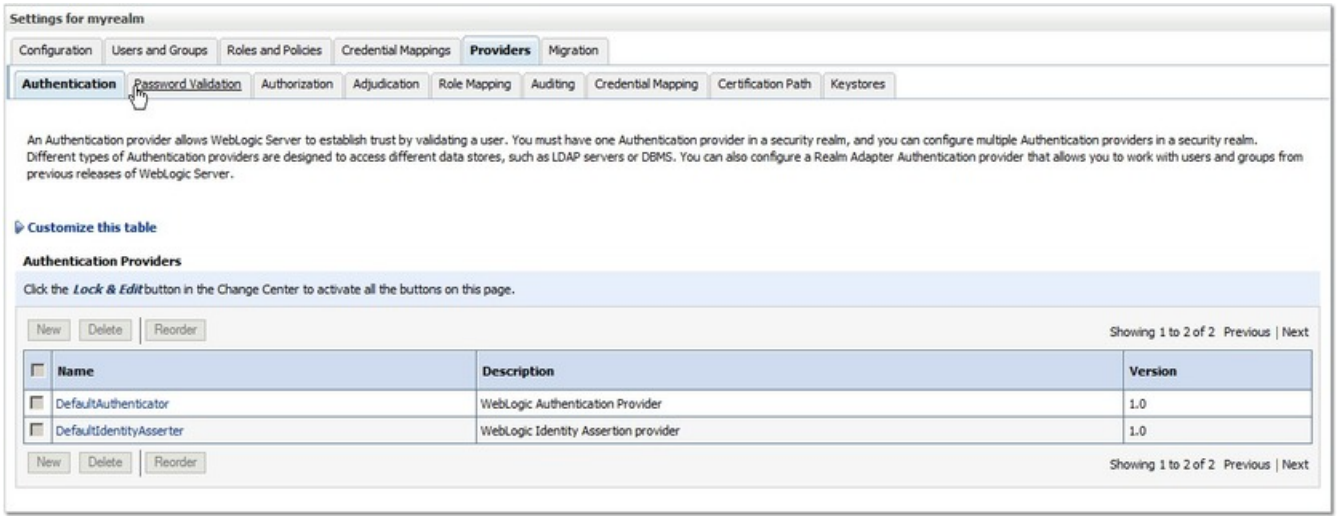


Figure 42: Settings Pane - Providers

- Click **New** to add a new provider.

  The Create a New Authentication Provider pane displays:

Figure 43: Creating a new Authentication Provider

  Enter a name for the provider (for example OUDAuthenticator for a provider that will authenticate the user for the Oracle Unified Directory).

  Select the authenticator appropriate for your LDAP directory from the list of authenticators.

  Be sure to select the authenticator associated with the LDAP you are configuring rather than choosing the generic DefaultAuthenticator. For example, for OUD select **OpenLDAPAuthentication**, or for OID select **OracleInternetDirectoryAuthenticator**.

- Click **OK** to save your settings.
- The Settings pane displays with the new authentication provider

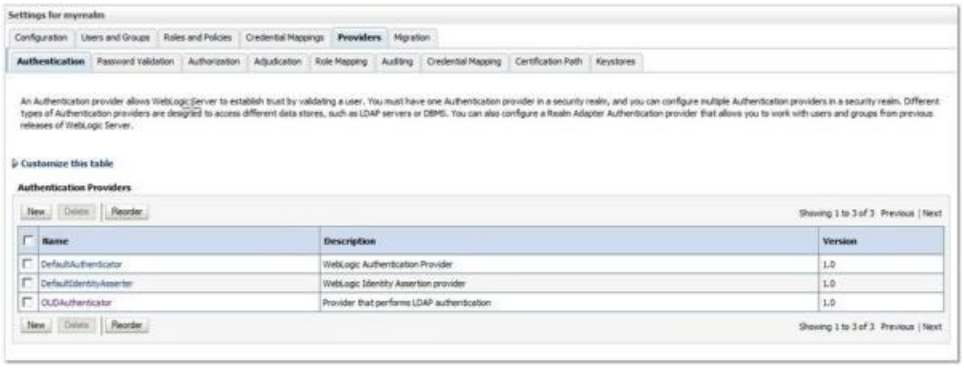


Figure 44: View Authentication Providers

- In the list of Authentication Providers, click the newly created provider.

  The Settings Pane for the new authentication provider displays.

  Settings Pane for Authenticator:

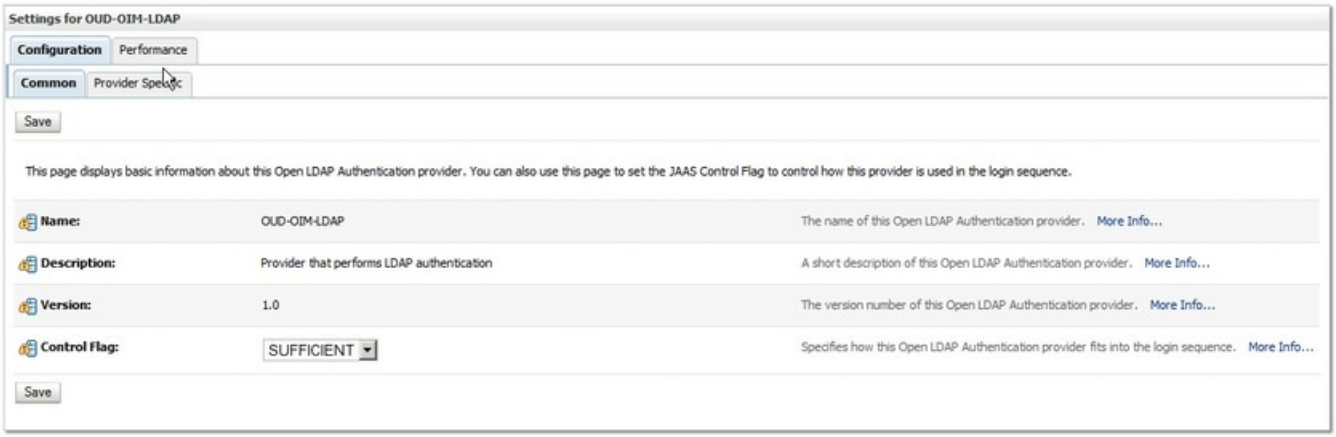


Figure 45: View new Authentication Provider settings

- Set the Control Flag to **SUFFICIENT**.

  Setting the Control Flag to SUFFICIENT indicates that if a user can be authenticated successfully by this authenticator, then the authentication provider should accept that authentication and should not invoke any additional authenticators.

  NOTE: If the authentication fails, it will fall through to the next authenticator in the chain. Therefore, be sure all subsequent authenticators also have their control flag set to SUFFICIENT.

- Click **Save** to save this setting.
- Open the **Provider Specific** tab to enter the details for the LDAP server.

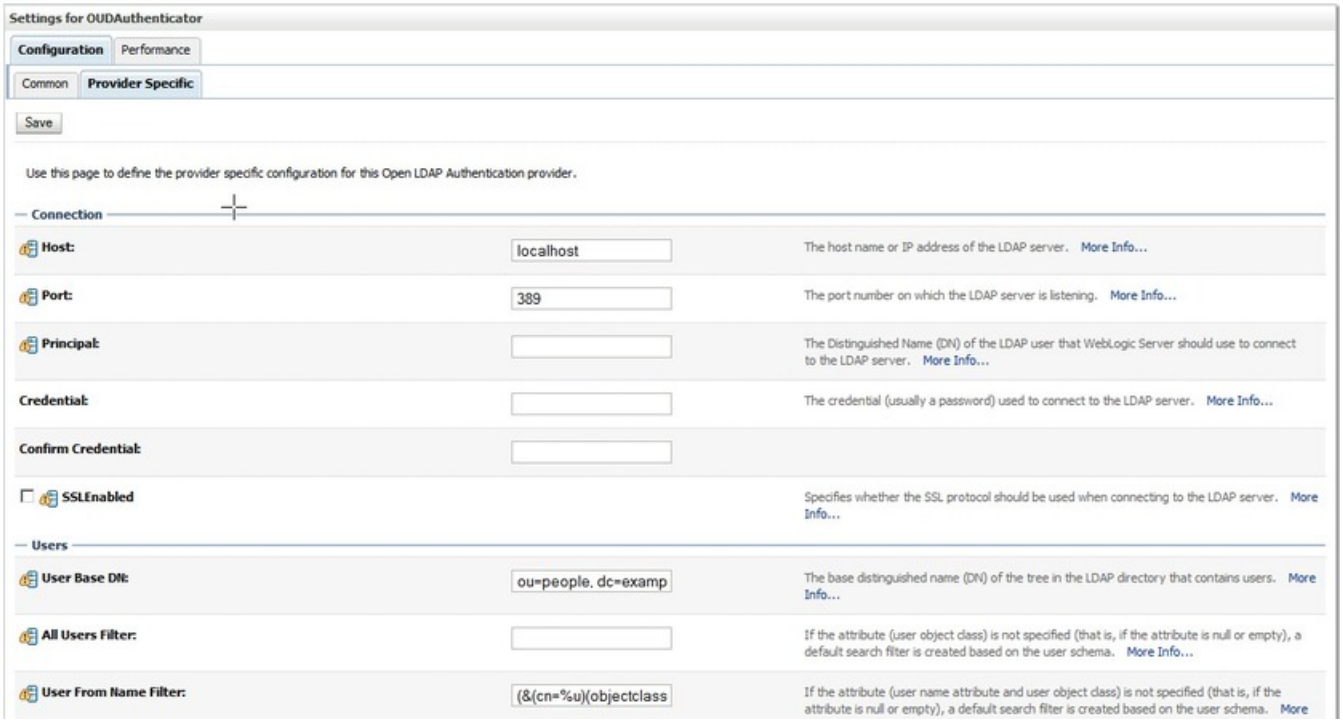


Figure 46: Entering LDAP server details

- Enter the details specific to your LDAP server.

Parameter	Value	Description
Host:		The LDAP server's server ID (for example, <ldap_host>example.com)
Port:		The LDAP server's port number (for example, 1389)
Principal:		The LDAP user DN used to connect to the LDAP server (for example, cn=Directory Manager)
Credential:		The password used to connect to the LDAP server
User Base DN:		Specify the DN under which your Users start (for example, cn=users,dc=example,dc=com)
User From Name Filter:		Specify User From name Filter (for example &(uid=%u)(objectclass=person)))
User Search Scope:		Specify User Search Scope (for example subtree)
User Name Attribute		Enter User Name Attribute (for example uid)

Parameter	Value	Description
User Object Class		Enter User Object Class (for example person)
Group Base DN		Specify the DN that points to your Groups node (for example, cn=groups,dc=example,dc=com)
Group From Name Filter		Enter Group From Name Filter (for example (|(&(cn=%g) (objectclass=groupofUniqueNames)) (&(cn=%g)(objectclass=groupOfURLs))))
Group Search Scope		Enter Group Search Scope (for example subtree)
Group Membership Searching		Enter Group Membership Searching (for example Unlimited)
Static Group Name Attribute		Enter Static Group Name Attribute (for example cn)
Static Group Object Class		Enter Static Group Object Class (for example groupofuniquenames)
Static Member DNAttribute		Enter Static Member DNAttribute (for example uniqemember)
Static Group DN sfrom Member DNFilter		Enter Static Group DNsfrom Member DNFilter (for example (&(uniquemember= %M)(objectclass=groupofuniquenames)))
Dynamic Group Name Attribute		Enter Dynamic Group Name Attribute (for example cn)
Dynamic Group Object Class		Enter Dynamic Group Object Class (for example groupofURLs)
Dynamic Member URLAttribute		Enter Dynamic Member URLAttribute (for example memberURL)
Use Retrieved User Name as Principal	Checked	Must be turned on
All Users Filter:	(&(uid=*)(objectclass=person))	Search to find all users under the User Base DN
User From Name Filter:	(&(uid=%u)(objectclass=person))	
User Name Attribute:	uid	

- Click **Save**.
- Return to the **Providers** tab and reorder the providers so that the new authentication provider is on top, followed by any other authenticators with the DefaultAuthenticator placed at the end of the list.

  All should have their Control Flags set to SUFFICIENT so that subsequent authenticators can authenticate identities that fall through from the new provider all the way through to the DefaultAuthenticator (which is used only for the default file-based embedded LDAP). For example, logins such as the default administrator account are not typically created in the LDAP directory, but still need to be authenticated to start up the server. Unless identities are allowed to fall through to the DefaultAuthenticator, the default administrator account will not be authenticated.
- Restart the Administration Server and the managed servers for the changes to take effect.

The following users will need to be seeded in the external LDAP Repository (these users must be added to be able to access the WebCenter Portal Administration Console):

User: contentadmin

Figure 47: Specifying the LDAP user

This user should be a member of the **Administrators** group:

Figure 48: Specifying the LDAP group

User: wssadmin

Figure 49: Reviewing LDAP settings

References

OUD:

http://www.oracle.com/technetwork/middleware/id-mgmt/documentation/index.html

WebCenter:

http://docs.oracle.com/cd/E12839_01/webcenter.1111/e12405/wcadm_security.htm

http://docs.oracle.com/cd/E12839_01/webcenter.1111/e12405/wcadm_security.htm#BGBHHGEH

Appendix M

Updating BPEL/SOA Configuration Settings (ConfigurationProperties.xml)

The following section describes how to update the MDS repository after the installation has been completed.

Linux/Unix file location:

`$PRODUCT_HOME/MDS-Artifacts/OTSS-ETPM/AIAMetaData/config`

Windows file location:

`%PRODUCT_HOME%/MDS-Artifacts/OTSS-ETPM/AIAMetaData/config`

Once the proper updates are completed, upload the changes to the MDS.

The following are the steps to upload the MDS from the delivered utilities.

You will need to set the following variables:

Variable	Example
SOA_HOME	<BEA_HOME>/>Oracle_SOA1
ORACLE_HOME	<BEA_HOME>/>Oracle_SOA1
MW_HOME	<WebLogic_HOME>/Middleware
WL_HOME	<BEA_HOME>//wlserver_10.3
PRODUCT_HOME	This is the BPEL OTSS-ETPM product installation home. **Linux Example**: PRODUCT_HOME=/psrmss/PSRM-SS/BPEL-Release-V2.4.0.2.0-Release-InitialInstall/OTSS-ETPM **Windows Example**: PRODUCT_HOME=D:\psrmss\PSRM-SS\BPEL-Release-V2.4.0.2.0-Release-InitialInstall\OTSS-ETPM

On UNIX/Linux:

cd $PRODUCT_HOME/bin

./install.sh -deployMDS

Note: The following ant command should be entered on one line **On Windows:**

cd %PRODUCT_HOME%\bin

ant -f =%PRODUCT_HOME%\bin\DeployUndeployUtility.xml

-DInstallProperties==%PRODUCT_HOME%\config\InstallProperties.xml DeployMDS

You will need to restart the SOA server to activate the updates for MDS.

Appendix N

UCM and Configuration.Properties

For the link from PSRM to UCM to work (using the setup for the property below), the uploaded documents need to be uploaded into a UCM FOLDER.

This is done by setting the **UploadFolderID** property in the Configuration.Properties file.

> **NOTE:** See *Appendix M*, "Updating BPEL/SOA Configuration Settings".

Configuration.Properties file Description for UCM Properties.

The example values specified are only examples, and will need to be updated to your implementation of UCM.

Property	Value
FileUpload.UCM.Endpoint.URL	Example Value: **https://ucm_server:ucm_port/idcws/GenericSoapPort</Property>** **Note**: This value is detokenized with the installation with the value entered in the installProperties.xml. This value may need to be updated depending on your implementation of UCM.
FileUpload.UCM.User	This value should be the user to connect to UCM Value for user of the document that will be uploaded Example Value: weblogic
FileUpload.UCM.DocumentType	Value for document type of the document that will be uploaded. Example Value: Document
FileUpload.UCM.SecurityGroup	Value for security group of the document that will be uploaded Example Value: Secure
FileUpload.UCM.DocumentAuthor	Value for author of the document that will be uploaded. Example Value: weblogic
FileUpload.UCM.DocumentAccount	Xpath containing the value of the account of the document that will be uploaded. Xpath is relative to head element.

Property	Value
	Example Value: webUserId
FileUpload.UCM.UploadFolderID	Content ID of the UCM file upload folder. This is used in case FileUpload.UCM.UploadFolderName is not specified. Example Value: The steps to locate this valued are describe below.
FileUpload.UCM.UploadFolderName	Content Name of the UCM file upload folder
FileUpload.UCM.UploadFolderWebLocation	Web folder location of the uploaded file. This is concatenated with the uploaded filename to generate the complete path to the file. Example Value: http://ucm_host:ucm_port/cs/Contribution%20Folders/
FileUpload.RetainContent	Flag to determine whether uploaded file contents should be forwarded to the back-end system Example Value: true

<Property name="FileUpload.UCM.Endpoint.URL">http://<yourSecuredUCMServer>:<port>/idcws/GenericSoapPort</Property>

<!-- Value for user of the document that will be uploaded. -->

<Property name="FileUpload.UCM.User">**yourSecuredUCMUserID**</Property>

<!-- Value for document type of the document that will be uploaded. -->

<Property name="FileUpload.UCM.DocumentType">**Document**</Property>

<!-- Value for security group of the document that will be uploaded. -->

<Property name="FileUpload.UCM.SecurityGroup">**yourUCMSecurityGroupName**</Property>

<!-- Value for author of the document that will be uploaded. -->

<Property name="FileUpload.UCM.DocumentAuthor">**yourUploadedDocumentAuthorName**</Property>

<!-- Xpath containing the value of the account of the document that will be uploaded. Xpath is relative to head element. -->

<Property name="FileUpload.UCM.DocumentAccount">**webUserId**</Property>

<!-- Content ID of the UCM file upload folder. This is used in case FileUpload.UCM.UploadFolderName is not specified. -->

<Property name="FileUpload.UCM.UploadFolderID">**yourUCMUploadFolderID**</Property>

<!-- Content Name of the UCM file upload folder. -->

<Property name="FileUpload.UCM.UploadFolderName">**yourUCMUploadFolderName**</Property>

<!-- Web folder location of the uploaded file. This is concatenated with the uploaded filename to generate the complete path to the file. -->

<Property name="FileUpload.UCM.UploadFolderWebLocation">**yourSecuredUCMWebFolderMappingForUploadDocuments**</Property>

<!-- Flag to determine whether uploaded file contents should be forwarded to the back-end system -->

<Property name="FileUpload.RetainContent">**false**</Property>

The following section describes the needed configuration and values that are needed for this functionality to work properly:

The UploadFolderWebLocation depends on the configuration in UCM the default configuration is described in the following section.

The UploadFolderName is optional.

The UploadFolderID has to be specified and it has to be a Folder ID of a UCM folder created for that environment.

Property: FileUpload.UCM.UploadFolderWebLocation

Log in to the Oracle UCM admin console using the following URL:

http://ucm_host:ucm_port/cs/

Log in as an administrator and go to Administration -> Folder Configuration -> Web Url Mapped Folders.

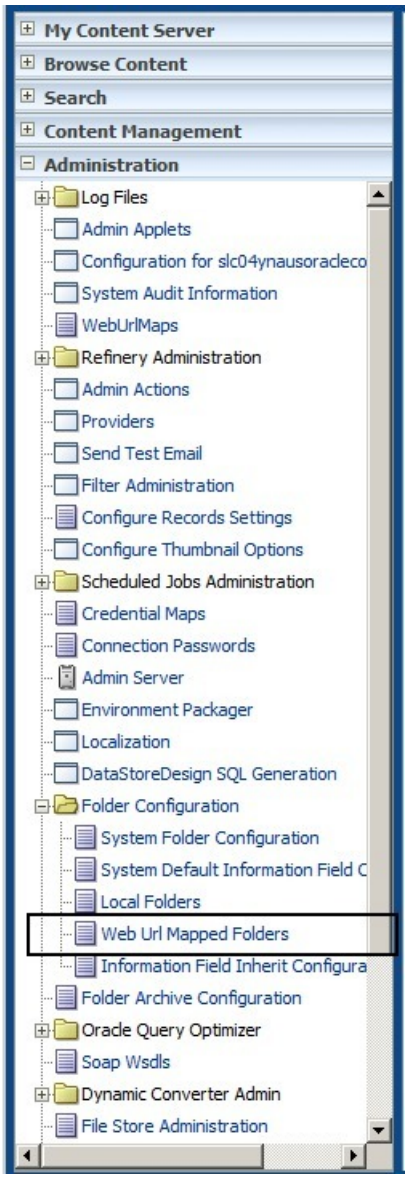


Figure 50: Navigating to Web URL Mapped Folders

Enter Folder

Enter URL Mapping

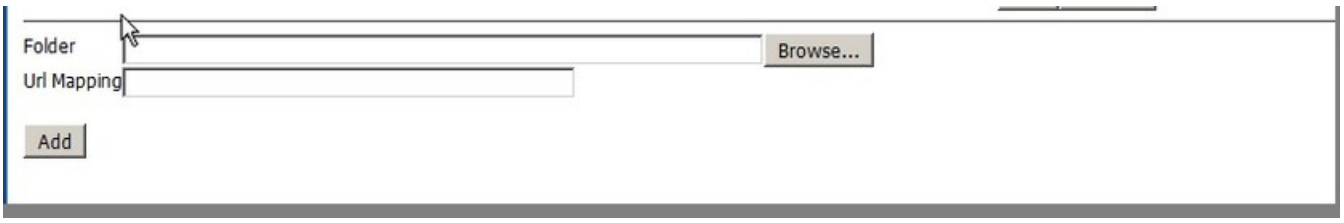


Figure 51: Folder and URL Mapping fields

Example Values:

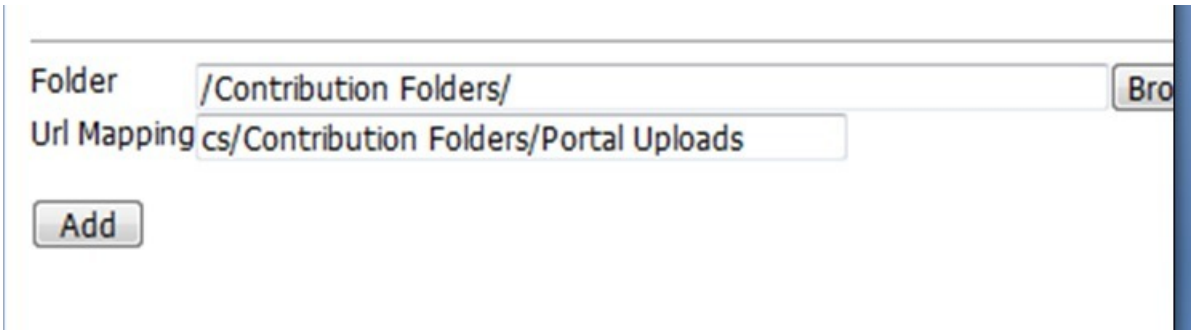


Figure 52: Sample Folder and URL Mapping values

Click Add.

Property: FileUpload.UCM.UploadFolderID

Log in to the Oracle UCM admin console using the following URL:

http://ucm_host:ucm_port/cs/

Log in as an administrator and go to Browse Content -> Contribution Folders

> **NOTE:** This example uses the Contribution Folders, which was created in the previous section.

To check the folder's ID, you can simply place your mouse over the link to the particular folder to get its ID. It will be identified as **CollectionID** in the URL. Do this on both the source and target instances.

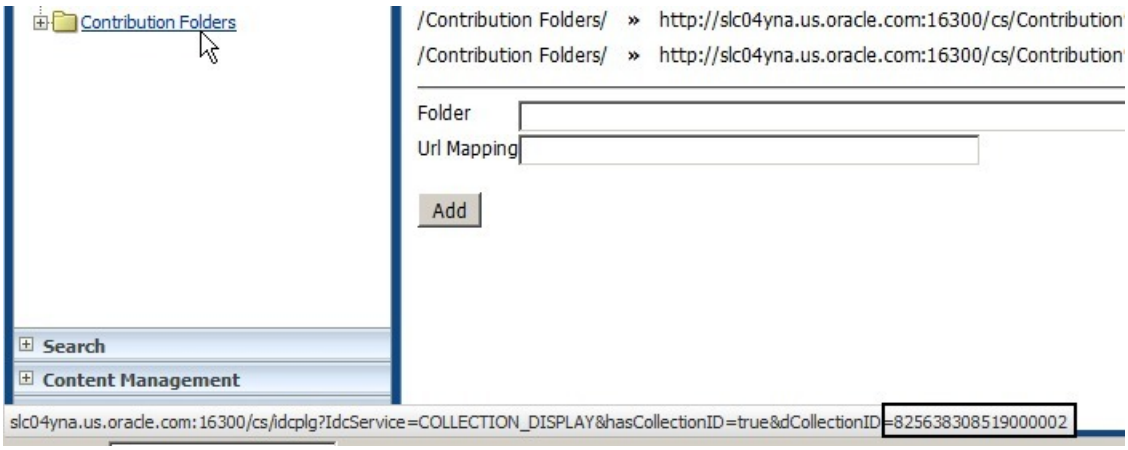


Figure 53: Navigating to your folder

The following is a different mechanism to retrieve the **Folder ID**:

Right click on the **Contribution Folders** folder (left side):

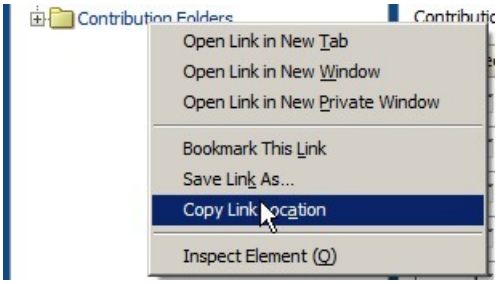


Figure 54: Copying your folder link

In Internet Explorer, use the **Copy Shortcut** option (standard right-click context menu, example for IE).

Paste the shortcut into a text editor and you should see something similar to the following:

```
http://ucm_host:ucm_port/cs/idcplg?IdcService=COLLECTION_DISPLAY&
hasCollectionID=true&dCollectionID=825638308519000001
```

NOTE: Collection ID is another name for Folder ID in UCM.

Appendix O

Configuring WebLogic storeUserConfig

For information on setting up and configuring a userConfigFile and a userKeyFile when using this option for the installation of PSRMSS, see the *WLST Command and Variable Reference* (http://docs.oracle.com/cd/E11035_01/wls100/config_scripting/reference.html).

Appendix P

Oracle Policy Automation

Oracle Policy Automation (10.4.4.21) incorporates your business policies into business processes that deliver accurate, consistent, and auditable outcomes.

The product can be downloaded from the Oracle Tech Network site at:

http://www.oracle.com/technetwork/apps-tech/policy-automation/downloads/index.html
Refer to the Oracle Policy Automation Installation Guide for detailed instructions to install and deploy Oracle Determinations Server for Java.

NOTE:
More current releases of OPA may be available; please check with Oracle Support with compatibility of versions other than the one specified above.

Appendix Q

Installation Troubleshooting

Troubleshooting Tip 1: **The ADF Connection strings are not properly configured.**

When processing transactions in the ADF Portal Application that have an Integrated flow, and you receive a 401 message, this is an indicator that the ADF Connection strings are not properly configured.

You will need to set the environment variables for the PRODUCT_HOME for the PSRMSS and execute the following command:

```
./install.sh -k
```

NOTE: This option will attempt to link the Web Service Connection with the policies and csf-keys.

Log in into the Oracle Enterprise Manager console at http://WLSAdminHost:WLSAdminServerPort/em with your *wlsadminuser/wlsadminpasswd* credentials.

Select Application Deployments, choose PSRMSS, then right-click and choose ADF > Configure ADF Connections from the context menu:

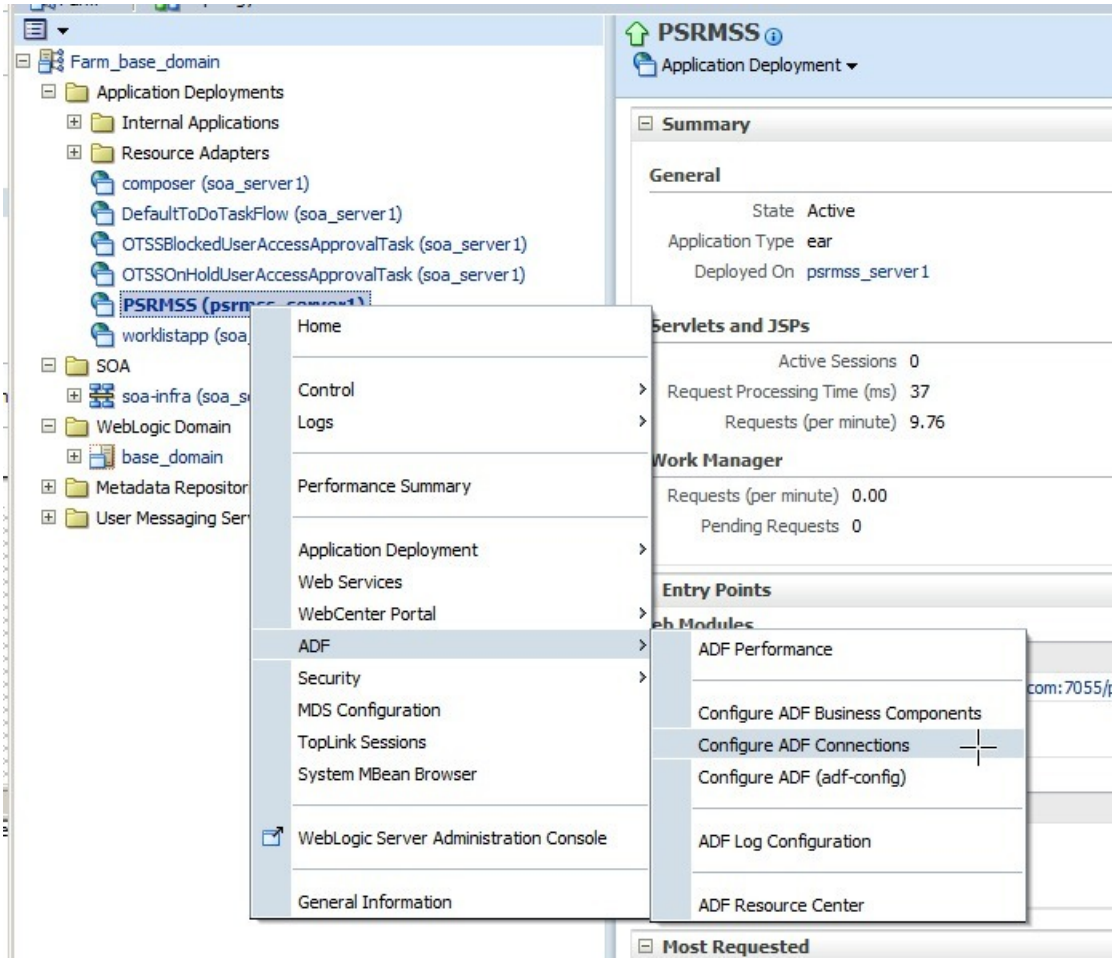


Figure 55: Navigating to the Configure ADF Connections item

Click Apply.

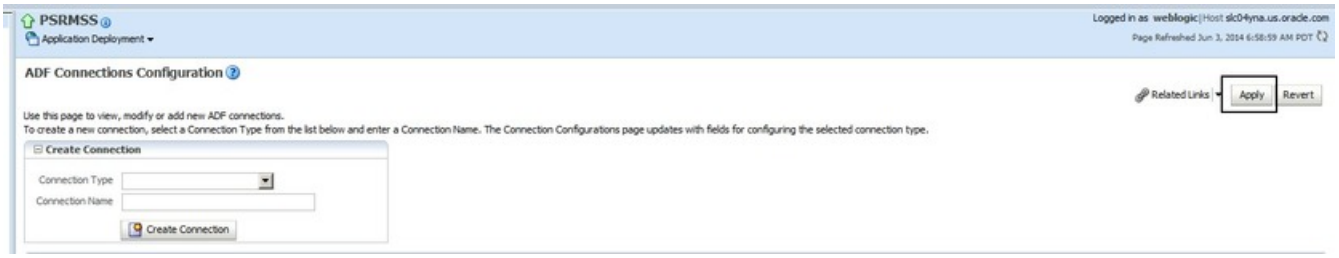


Figure 56: Applying the ADF Connections Configuration

Troubleshooting Tip 2: In the SOA Server log file you receive the following alert:

[2014-05-19T14:52:00.310-07:00] [soa_server1] [NOTIFICATION] [] [oracle.soa.adapter] [tid: Workmanager: , Version: 0, Scheduled=false, Started=false, Wait time: 0 ms\n] [ecid: 0000KOLVr7vBX7KLIU5Eif1JUZpA000002,0] [APP: soa-infra] File Adapter OTSSReportReconciliationRequestEBF Recovery still not possible after 270 attempts due to BINDING.JCA-11001[[

Invalid Input Directory.

To resolve this issue, see *Post-Installation Steps for Integration* section in this document.

Troubleshooting Tip 3: When navigating in the ADF Application you receive the following message:

"*There were issues detected while processing your request; please contact us for more details.*"

The following will be seen in the ADF log file:

[2014-05-12T12:06:29.421-07:00] [psrmss_server1] [ERROR] [] [oracle.apps.otss.base.service.util.ServiceUtil] [tid: [ACTIVE].ExecuteThread: '0' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: anonymous] [ecid: 0000KNlp3eIBX7KLIU5Eif1JSHbu00000V,0] [APP: PSRMSS] [ETPM-SS] getMessageString: Error while attempting to get sequence. JBO-25058: Definition sequence of type Attribute is not found in ViewDeferrorMessage28_655.

[2014-05-12T12:06:29.428-07:00] [psrmss_server1] [ERROR] [] [oracle.apps.otss.serviceRequest.common.ui.bean.IdentificationFormBean] [tid: [ACTIVE].ExecuteThread: '0' for queue: 'weblogic.kernel.Default (self-tuning)'] [userId: anonymous] [ecid: 0000KNlp3eIBX7KLIU5Eif1JSHbu00000V,0] [APP: PSRMSS] [ETPM-SS] submitAction: ERROR OCCURRED - <html> <body> There were issues detected while processing your request, please contact us for more details. BPE 11001:401 </body> </html>

To resolve this issue, check to see if the MDS (DVM) is up to date with the PSRM application.

Troubleshooting Tip 4:

For general troubleshooting information for WebCenter Components, see *Troubleshooting Oracle WebCenter Portal* in the documentation section of the Oracle Technology Network.