

Oracle Enterprise Taxation and Policy Management Self Service

Demo Installation Guide

Release 1.0.0.0

E38747-01

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Chapter 1

Installation Overview

This guide describes the installation steps that must be completed in order to use Enterprise Taxation and Policy Management Self Service (ETPMSS) integrated with Oracle Enterprise Taxation and Policy Management (ETPM).

Note: This document is subject to revision and updating. For the most recent version of this document and related documentation check BUG 14660129.

Additional Resources

For more information on products related to ETPMSS 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://www.oracle.com/technetwork/indexes/documentation/index.html
Oracle Enterprise Taxation Policy Management v2.3.1 Documentation Library	http://docs.oracle.com/cd/E28126_01/index.htm
Oracle SOA Suite documentation	http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html
Oracle UCM Documentation	http://www.oracle.com/technetwork/middleware/webcenter/content/documentation/index.html
Oracle Fusion Middleware Requirements	http://docs.oracle.com/cd/E12839_01/install.1111/e12001/overview.htm#BABDFJAB
Oracle WebLogic Documentation	http://www.oracle.com/technetwork/middleware/weblogic/documentation/index.html

Abbreviations

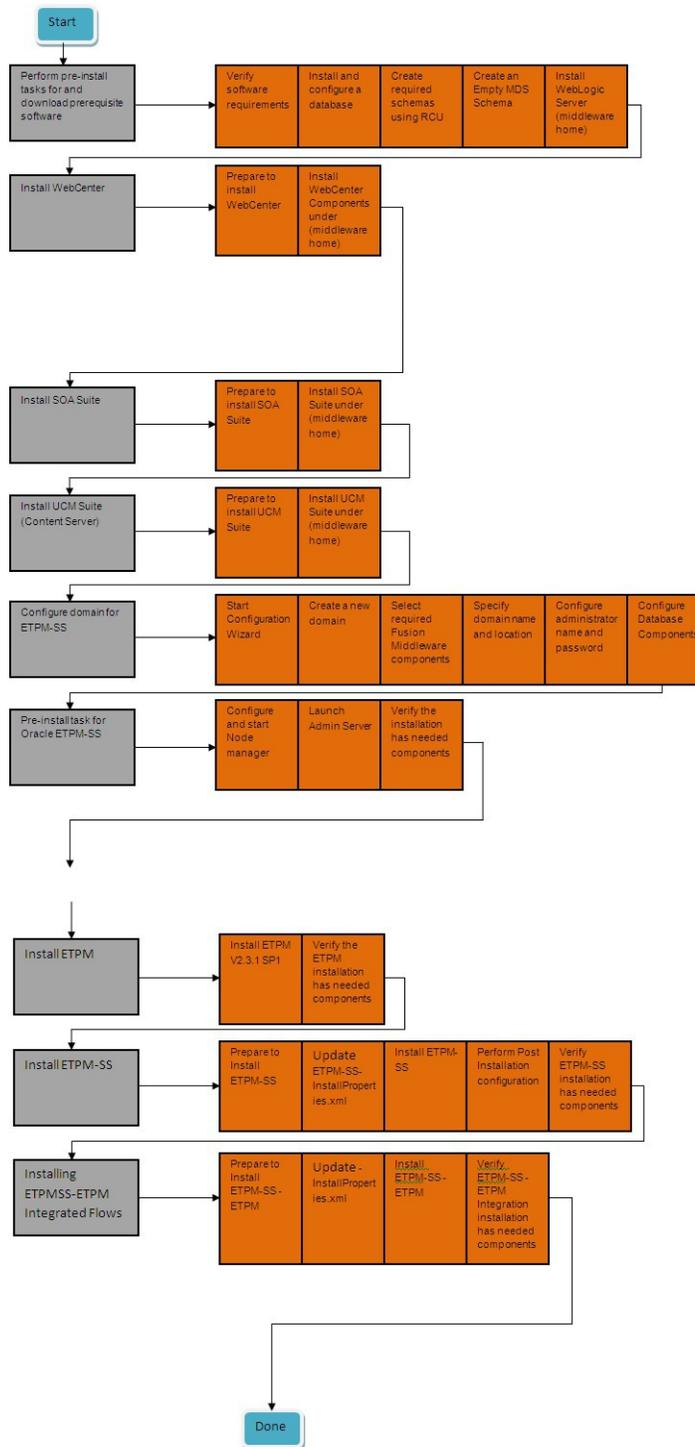
ETPMSS	Oracle Enterprise Taxation and Policy Management Self Service
ETPM	Oracle Enterprise Taxation and Policy Management
DDL	Data Definition Language
MDS	Metadata Services
OUI	Oracle Universal Installer
RCU	Repository Creation Utility
EAR	Enterprise Archive
WC	Oracle WebCenter
WLS	Oracle WebLogic Server
ADF	Application Development Framework
SOA	Service Oriented Architecture
BPEL	Business Process Execution Language
MDS	Metadata Services

Note for Windows Internet Explorer Users

If a portion of the web page is blank or does not display correctly in Windows Internet Explorer, refer to the Microsoft article at <http://windows.microsoft.com/en-US/windows7/webpages-look-incorrect-in-Internet-Explorer>.

Additional information on this issue can be found in BUG 14593433.

Roadmap for ETPMSS Installation and Configuration



Software Requirements

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

- Oracle RCU Database 11.1.1.6.0
- Oracle WebLogic Server 10.3.6
- Oracle WebCenter Release 11.1.1.6.0
- Oracle Content Server (UCM) 11.1.1.6.0
- Oracle SOA 11.1.1.6.0

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

- Oracle Enterprise Taxation Policy Management Release 2.3.1
 - ETPM Service Pack 1 [BUG: 14713038]

Note: You will only need to install the application server portion of the Service Pack, since the ETPM Demo Data dump file already includes ETPM Service Pack 1.

- Oracle Documaker 12.0.1
- Demo Data for ETPM specifically for ETPM-SS can be downloaded from BUG: 14733541.

Table 1: Software Download Prerequisites and Download Locations

Prerequisite	Reference (Download Site)
Install Oracle WebLogic	http://docs.oracle.com/cd/E23104_01/download_readme_ps4/download_readme_ps4.htm
Install Oracle WebCenter	http://docs.oracle.com/cd/E21764_01/install.1111/e12001/toc.htm
Install Oracle SOA	http://www.oracle.com/technetwork/middleware/soasuite/downloads/index.html
Install Oracle Content Server	http://www.oracle.com/technetwork/middleware/webcenter/content/downloads/index.html
Install Oracle RCU	http://www.oracle.com/technetwork/middleware/webcenter/portal/downloads/index.html

Note: This link contains the downloads for 11.1.1.5.0.

Chapter 2

ETPMSS Installation

Types of Installation Packages

Installation Type	Description
Demo Install (described in this document)	Refer to ETPM-SS Bug 14733541 for the latest demo download installation for ETPMSS and the demo components for ETPM.
Initial Install (ETPM-SS and ETPMSS-ETPM Integration)	This type of installation provides the base installation with the integration functionality into ETPM.
Standalone Install (ETPM-SS and ETPMSS-EDGE-PROD Integration)	This type of installation should be used when you are not planning to integrate with ETPM.

Note: Each package has the same basic installation procedure, though when running the Demo installation there are additional steps, as described in this document.

Pre-Installation Tasks

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

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 ETPM-SS.

2. Install Oracle WebLogic 11.1.1.6
3. Install Oracle WebCenter 11.1.1.6

4. Install Oracle UCM 11.1.1.6
5. Install Oracle SOA 11.1.1.6
6. Create and configure a new WebLogic domain for Oracle WebCenter, Oracle UCM, and Oracle SOA (see *Appendix C* for additional details).
7. Ensure that Oracle WebLogic Admin Server 11.1.1.6 is running.

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

- UCM_server1
- WC_Portlet
- WC_Spaces
- WC_Uilities
- soa_server1 (can be installed into separate domain)

The installation utility uses delivered libraries and applications from these servers; they do not need to be running for the installation.

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 *setNMProps* 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 Admin Server is running, and you are able to access the console:

```
http://weblogichost:weblogicadminport/console
```

ETPMSS Installation Directory Structure

This folder includes a subfolder hierarchy as shown in the following image. If any of the folders are read-only, remove the read-only attribute from the folder.



- **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
ETPM-SS-InstallProperties.xml	Installation parameters file.

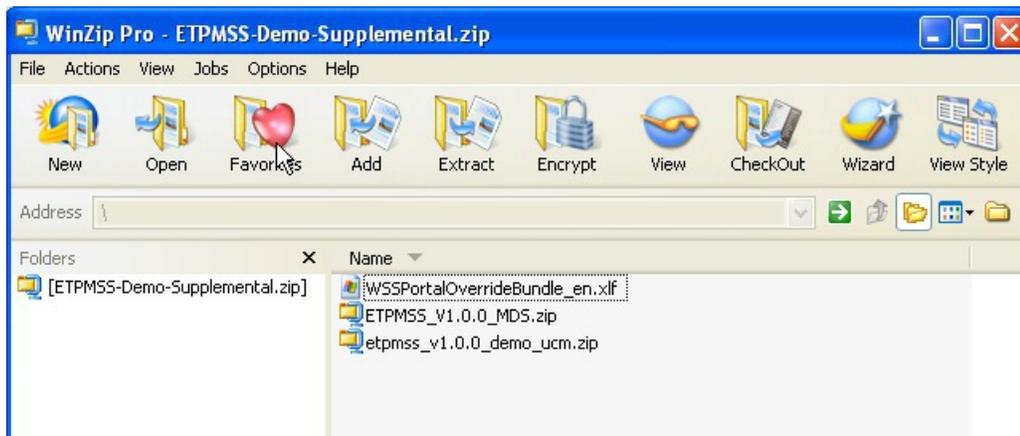
- **Install** contains the ETPMSS application, installation property files, and installation utilities.
- **Log** contains the log for the installation utility.

Demo Supplemental Contents Overview

ETPMSS-Demo-Supplemental.zip includes the following files:

- **ETPMSS_V1.0.0_MDS.zip**. This is the MDS archive file.
- **WSSPortalOverrideBundle_en.xlf**. This is the Application Override Bundle file. It is provided for informational purposes only, since it is also included in the MDS archive file.
- **etpmss_v1.0.0_demo_ucm.zip**. This is the UCM content archive file.

Additional information on these files can be found in the topic, [Additional Installation Instructions for ETPM-SS Demo](#), later in this document.



ETPM-SS Product Installation

This procedure describes the basic installation procedure for ETPMSS.

1. Download ETPM-SS-Demo-Installation.jar from the Bug: 14733541 and unzip into a target installation directory:

Example: `jar -xvf <ETPM-SS-ProductInstall-<Install-Type>>.jar`

Linux example:

```
/etpm-ss/ETPM-SS-ProductInstall
```

Windows example:

```
D:\etpm-ss\ETPM-SS-ProductInstall
```

Note: You must have the platform-appropriate Java JDK installed on the machine on which the ETPM SS package is unzipped.

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

Linux example:

```
export PRODUCT_HOME=/etpm-ss/ETPM-SS-Release-V1.0.0
```

```
echo $PRODUCT_HOME
```

echo should return PRODUCT_HOME as the location of the top-level directory of the installation media, e.g., /etpm-ss/ETPM-SS-Release-V1.0.0.

Windows example:

```
SET PRODUCT_HOME=D:\ETPM-SS\ETPM-SS-Release-V1.0.0
```

```
echo %PRODUCT_HOME%
```

echo should return PRODUCT_HOME as location of the top level directory of the installation media, e.g., D:\ETPM-SS\ETPM-SS-Release-V1.0.0.

See Appendix J for an ETPM-SS 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.

UNIX/Linux example:

```
source /etpm-ss/weblogic-10.3.5/wlserver_10.3/server/bin/setWLSEnv.sh
```

Windows example:

```
run D:\weblogic-10.3.5\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/ETPM-SS-InstallProperties.xml file with values appropriate to your environment (see Appendix F for a sample ETPM-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 /etpm-ss/weblogic-10.3.5/wlserver_10.3/server/bin/setWLSEnv.sh
```

On Windows:

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

Important: Before proceeding to the final step, ensure that the Admin server is up and running.

6. Run the installation script to install ETPMSS (see [Appendix G, "Installer Utility Overview"](#), for additional information regarding the installer).

On Linux:

```
/install.sh i
```

Note: You will need to change the permissions on install.sh to chmod 755.

On Windows:

```
install.cmd i
```

Note:

The following message will be shown on a successful installation of ETPM-SS:

```
-----  
Installation of ETPM-SS V1.0.0 is Successful  
-----
```

If any message appears that indicates an *unsuccessful* installation after executing the installation utility, see [Appendix G, "Installer Utility Overview"](#).

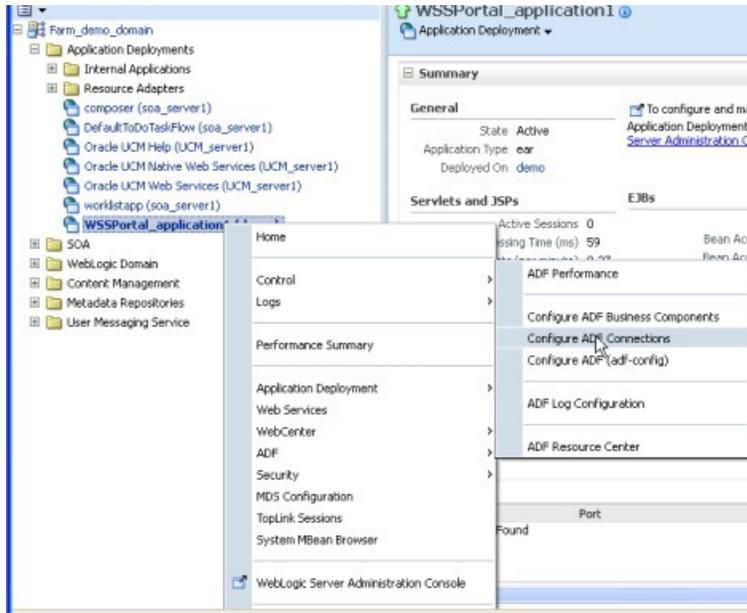
Post-Installation Tasks

Configuring ADF Connection for the ETPMSS Application

To configure and verify that the ETPMSS application wsd's are correctly tokenized:

1. Log in into the Oracle Enterprise Manager console at `http://WLSAdminHost:WLSAdminServerPort/em` with your `wlsadminuser/wlsadminpasswd` credentials.
2. Select **Application Deployments**, choose **WSSPortal_application1 (etpm_ss)**, then right-click and choose **ADF > Configure ADF Connections** from the context menu as shown in the following images:

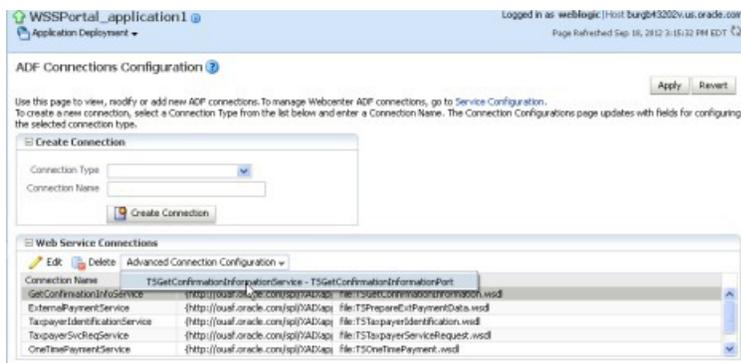




- Under **Web Service Connections**, each connection name has a corresponding **SOA WSDL URL**. Click on each connection name (e.g., `TSGetConfirmationInformation`), click **Advanced Connection Configuration**, and select **WSDL URL**.

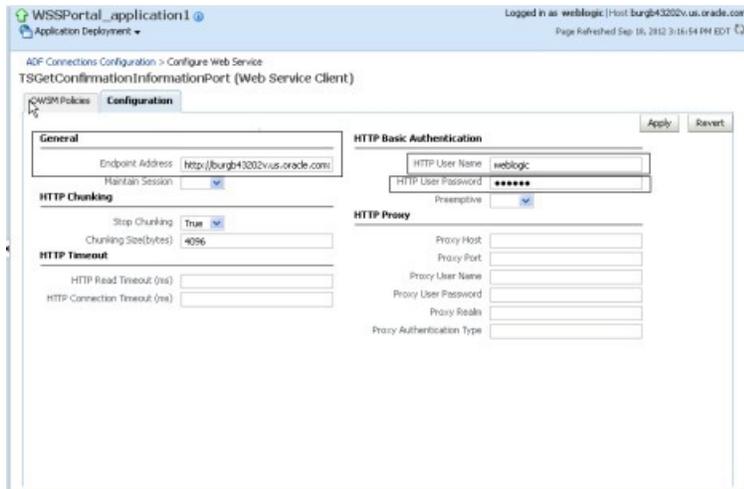
Example:

The connection URL, `http://soahostname:soapportno/soa-infra/services/OTSS-ETPM/OTSSRequestStatusInquiryEBF/otsrequeststatusinquirybpelprocess_client_ep`



On the **Configuration** tab (which is not the default tab when the screen first appears), check under **General** for the correct **Endpoint Address** for the SOA Server.

Enter the HTTP User Name and HTTP User Password for the SOA Admin Server to allow the ETPMSS application to access the web services that are deployed in SOA.



Repeat Step 3 for all remaining connections to confirm that detokenization has been completed for all web services and URL connections.

Configuring UCM for ETPMSS

UCM Configuration: Part 1

After the installation process is completed 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 ETPSS 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 select the **Admin Server** option. A new window opens for the admin server.
4. Perform the following configuration steps:

If working with 11.1.1.5:

- In the **Admin Server** window, select the **Component Manager** category in the navigation area, then select the **All Features** radio box. Browse down the list of components and make sure that the following are checked: In the **Admin Server** window, select the **Component Manager** category in the navigation area, then select the **All Features** radio box. Browse down the list of components and make sure that the following are checked:
 - FolderStructureArchive, Folders_g
 - WebCenterConfigure

If working with 11.1.1.6:

1. Log in to the Oracle UCM cs-admin console using the following URL:
`http://ucm_host:ucm_port/cs/idcplg/cs-admin/pxs?IdcService=GET_COMPONENT_DATA`
2. In **Disabled Components**, select **folders_g**, **FolderStructureArchive**, then click **Enable**, then **Save**.

3. In the **Admin Server** window, select the **Component Manager** category in the navigation area, then select the **All Features** radio box. Browse down the list of components and make sure that the following are checked:

- Webcenter Configure
- Inbound Refinery Support
- Dynamic Converter

5. Restart the UCM Server once more.

UCM Configuration: Part 2

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

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:

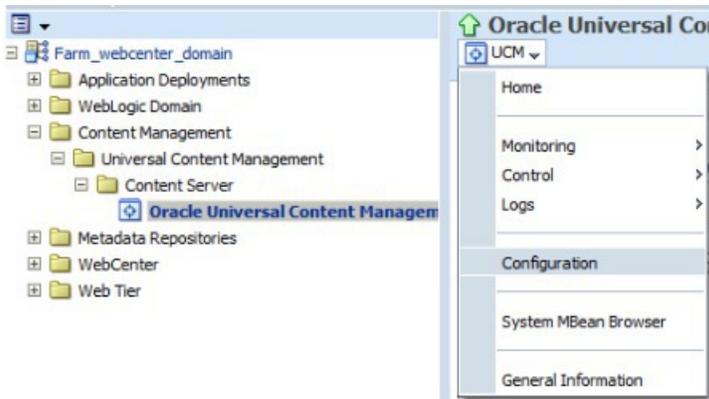
If working with 11.1.1.5:

1. Choose **Content Management > Universal Content Management > Content Server** , then select **Oracle Universal Content Management**.
2. Right-click and select **Configuration**.



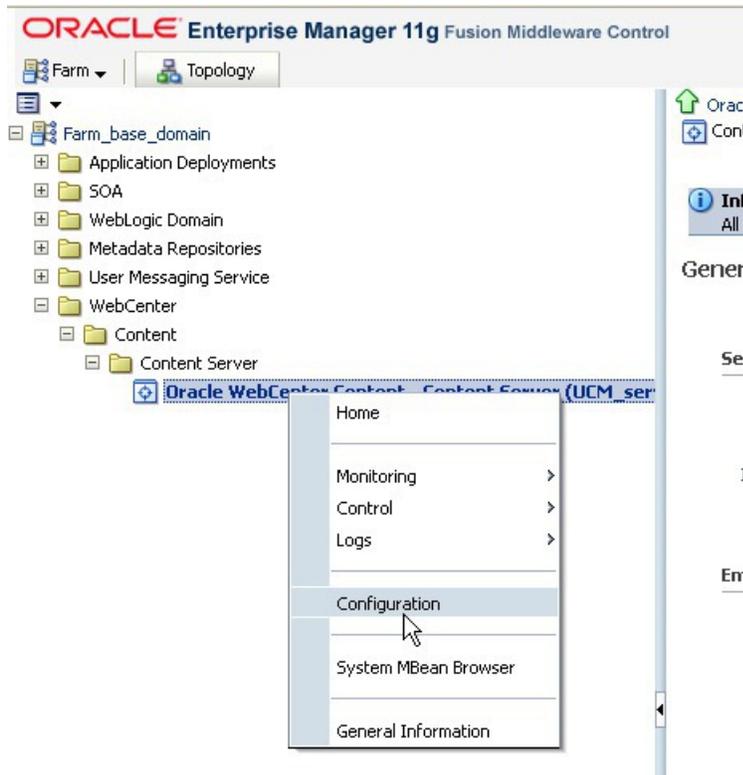
If working with 11.1.1.6:

1. Choose **WebCenter > Content > Content Server** , then select **Oracle WebCenter Content - Content Server (UCM Server 1)**.
2. Right-click and select **Configuration**.



3. 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 * . * . * . *



4. Restart the UCM_Server.

Verifying the Installation

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

Verifying the ETPMSS Schema Tables

1. Log in into the database with the ETPM-SS dbuser/passwd credentials that you created during the installation process.

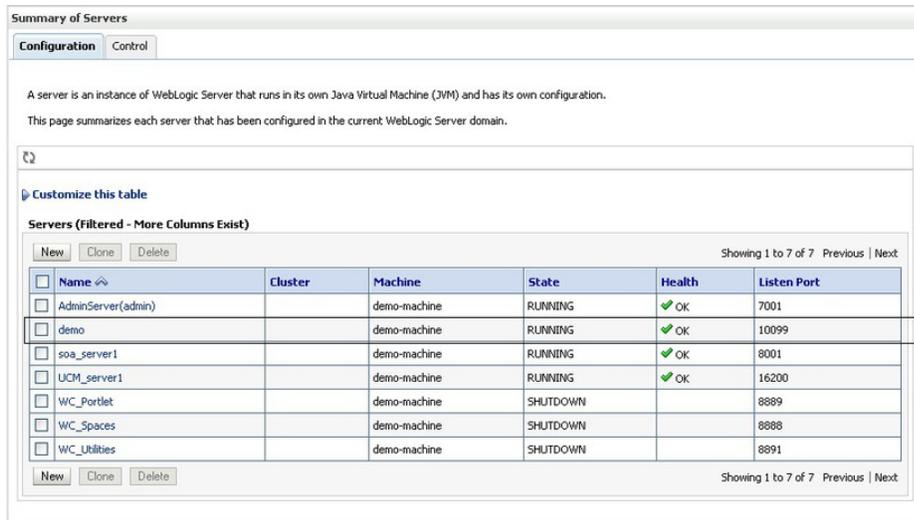
2. Verify that the following tables exist by executing the query `select table_name from user_tables order by table_name;`

- TS_CONFIGURATION
- TS_FIELD
- TS_FIELD_L
- 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_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_SERVICE_REQUEST_DEFN
- TS_SERVICE_REQUEST_DEFN_L
- TS_SERVICE_REQUEST_FIELD
- TS_SERVICE_REQUEST_FIELD_L
- TS_VALIDATION_RULE
- TS_VALIDATION_RULE_L

Verifying the ETPMSS Server was Created

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

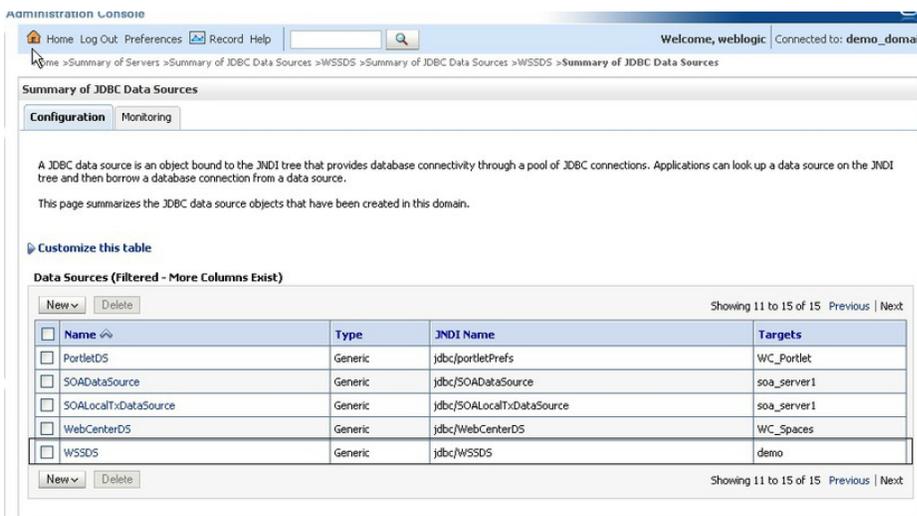
The server list should include the server name from your installation (as indicated by "demo" in this sample).



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 `<etpm-ss-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:



Verifying the mds-OTSSMDS_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 `<etpm-ss-domainname>`, then expand **Services**, and click **Data Sources**.

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

Summary of JDBC Data Sources

Configuration | Monitoring

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

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

[Customize this table](#)

Data Sources (Filtered - More Columns Exist)

New | Delete | Showing 1 to 10 of 15 | Previous | Next

<input type="checkbox"/>	Name ↕	Type	JNDI Name	Targets
<input type="checkbox"/>	ActivitiesDS	Generic	jdbc/ActivitiesDS	WC_Spaces, WC_Uilities
<input type="checkbox"/>	CSDS	Generic	CSDS	UCM_server1
<input type="checkbox"/>	EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1
<input type="checkbox"/>	EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
<input type="checkbox"/>	mds-OTSSMDS_MDS	Generic	jdbc/mds/OTSSMDS_MDS	AdminServer, demo
<input type="checkbox"/>	mds-ovsm	Generic	jdbc/mds/ovsm	AdminServer, WC_Portlet, soa_server1, WC_Spaces
<input type="checkbox"/>	mds-soa	Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1
<input type="checkbox"/>	mds-SpacesDS	Generic	jdbc/mds/SpacesDS	AdminServer, WC_Spaces
<input type="checkbox"/>	OraSDPMDDataSource	Generic	jdbc/OraSDPMDDataSource	soa_server1
<input type="checkbox"/>	OTSS-SOADS	Generic	jdbc/OTSS-SOADS	soa_server1

New | Delete | Showing 1 to 10 of 15 | Previous | Next

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 `etpm-ss_domain > Security Realms > myrealm > Users and Groups`.

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

Settings for myrealm

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

Users | Groups

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

[Customize this table](#)

Users

New | Delete | Showing 1 to 5 of 5 | Previous | Next

<input type="checkbox"/>	Name ↕	Description	Provider
<input type="checkbox"/>	contentadmin		DefaultAuthenticator
<input type="checkbox"/>	OracleSystemUser	Oracle application software system user.	DefaultAuthenticator
<input type="checkbox"/>	wasadmin	OTSS Added via Installation	DefaultAuthenticator
<input type="checkbox"/>	weblogic	This user is the default administrator.	DefaultAuthenticator
<input type="checkbox"/>	wssadmin	WSS Developer	DefaultAuthenticator

New | Delete | Showing 1 to 5 of 5 | Previous | Next

Settings for wasadmin

General | Passwords | Attributes | **Groups**

Save

Use this page to configure group membership for this user.

This user can be a member of any of these parent groups. [More Info...](#)

Parent Groups:

Available:

- AdminChannelUsers
- AppTesters
- CrossDomainConnectors
- Deployers
- Monitors
- Operators
- OracleSystemGroup

Chosen:

- Administrators

Save

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 `<etpm-ss-domainname>`, then expand **Summary of Deployments**.

The list of deployments should include a shared library, as shown in the following image:

<input type="checkbox"/>	oracle.dconfig-infra(11.1.1.1.1.0)	Active		Library	100
<input type="checkbox"/>	oracle.yrf.system.filter	Active		Library	100
<input type="checkbox"/>	oracle.jsp.next(11.1.1.1,11.1.1)	Active		Library	100
<input type="checkbox"/>	oracle.otss.extension(1.0,1.0)	Active		Library	100
<input type="checkbox"/>	oracle.portlet-producer.jpdk(11.1.1,11.1.1)	Active		Library	300

In addition, the list of deployments should include the **WSSPortal_application1** application, as shown in the following image:

<input type="checkbox"/>	wsil-wls	Active	✓ OK	Enterprise Application	5
<input type="checkbox"/>	wsm-pm	Active	✓ OK	Enterprise Application	5
<input type="checkbox"/>	wsrp-tools (11.1.1.4.0)	New		Enterprise Application	400
<input type="checkbox"/>	WSSPortal_application1	Active	✓ OK	Enterprise Application	100

Install Update Delete Start Stop

Showing 1 to 112 of 112 Previous Next

Accessing the ETPMSS Application

To access the ETPMSS application after a successful installation:

User	<code>http://<weblogic-Server>:<etpm-ss-server-port>/etpmss/faces/pages_home</code>
Admin	<code>http://<weblogic-Server>:<etpm-ss-server-port>/etpmss/faces/oracle/webcenter/portalapp/pages/login.jspx</code>

Chapter 3

Installing ETPM Integrated Flows

This section describes the installation steps for Oracle Enterprise Taxation Policy Management-related integration flows.

Integration Pre-Installation Tasks

The following tasks should be completed before you install ETPMSS-ETPM integrated flows:

- Extract the ETPM-SS 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.

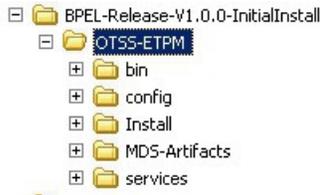
Note: For additional information on SOA, see <http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html#111130>

- 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 ETPM V2.3.1 SP1 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.



- **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.

- **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. 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).

Note: `PRODUCT_HOME` refers to the location where the `ETPM_SS` BPEL installation media are located.

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%`.

2. Set the following environment variables (see Appendix I for an `ETPMSS-ETPM` Integration environment settings example):

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

Linux Example:

```
PRODUCT_HOME=/etpms/ETPM-SS/
BPEL-Release-V1.0.0-Release-
InitialInstall/OTSS-ETPM
```

Variable	Example
	Windows Example:
	PRODUCT_HOME=D:\etpms\ETPM-SS \BPEL-Release-V1.0.0-Release- InitialInstall\OTSS-ETPM

- 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%\wlserver_10.3\server\bin\  
setWLSEnv.cmd
```

- 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`
- Change (`cd`) to the `<PRODUCT_HOME>/bin` directory.

Note: The following ant command should be entered on one line. Also note that no output will be echoed to the screen; refer to the logfile to check progress.

On UNIX/Linux:

```
cd $PRODUCT_HOME/bin  
ant -f InstallBuild.xml -DInstallProperties=$PRODUCT_HOME/config/  
InstallProperties.xml  
-l installBPEL-ETPMSS.log
```

On Windows:

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

After running the command, examine `installBPEL-ETPMSS.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.

- Execute the following installation scripts in a command window for your OS to deploy MDS.

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

On UNIX/Linux:

```
cd $PRODUCT_HOME/bin  
ant -f $PRODUCT_HOME/bin/DeployUndeployUtility.xml  
-DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml DeployMDS
```

On Windows:

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

- Restart both the WebLogic Admin server and the SOA server to activate the installation processes and ensure that all artifacts are successfully installed.

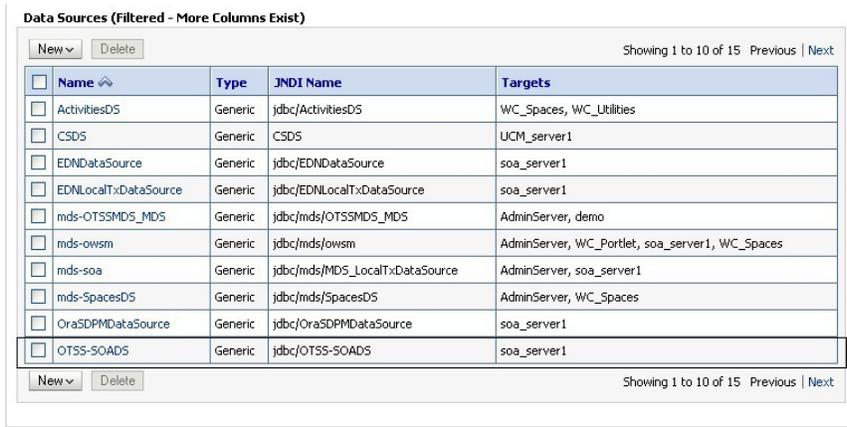
Post-Integration Checklist

This section describes procedures to verify integration of the ETPMSS-ETPM flows.

Verifying That the OTSS-SOADS Data Source Has Been Created

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**, as shown in the following image:

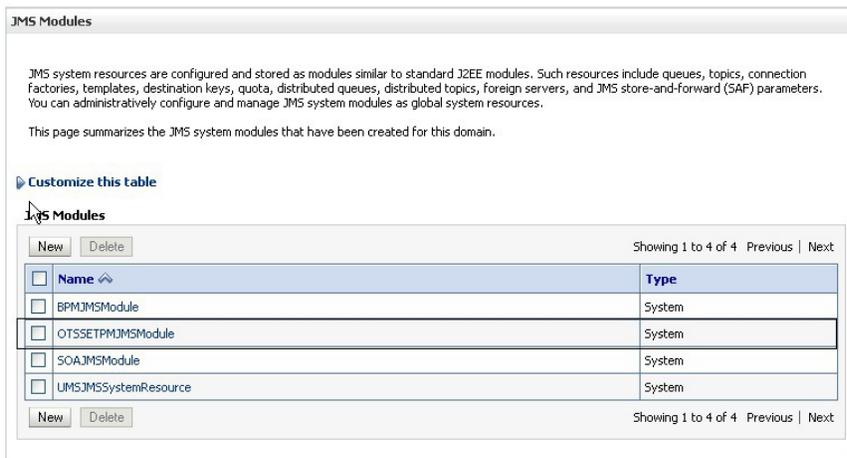


<input type="checkbox"/>	Name	Type	JNDI Name	Targets
<input type="checkbox"/>	ActivitiesDS	Generic	jdbc/ActivitiesDS	WC_Spaces, WC_Uilities
<input type="checkbox"/>	CSDS	Generic	CSDS	UCM_server1
<input type="checkbox"/>	EDNDataSource	Generic	jdbc/EDNDataSource	soa_server1
<input type="checkbox"/>	EDNLocalTxDataSource	Generic	jdbc/EDNLocalTxDataSource	soa_server1
<input type="checkbox"/>	mds-OTSSMDS_MDS	Generic	jdbc/mds/OTSSMDS_MDS	AdminServer, demo
<input type="checkbox"/>	mds-owsm	Generic	jdbc/mds/owsm	AdminServer, WC_Portlet, soa_server1, WC_Spaces
<input type="checkbox"/>	mds-soa	Generic	jdbc/mds/MDS_LocalTxDataSource	AdminServer, soa_server1
<input type="checkbox"/>	mds-SpacesDS	Generic	jdbc/mds/SpacesDS	AdminServer, WC_Spaces
<input type="checkbox"/>	OraSDPMDDataSource	Generic	jdbc/OraSDPMDDataSource	soa_server1
<input type="checkbox"/>	OTSS-SOADS	Generic	jdbc/OTSS-SOADS	soa_server1

Verifying the JMS Module has been Created

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:



JMS system resources are configured and stored as modules similar to standard J2EE modules. Such resources include queues, topics, connection factories, templates, destination keys, quota, distributed queues, distributed topics, foreign servers, and JMS store-and-forward (SAF) parameters. You can administratively configure and manage JMS system modules as global system resources.

This page summarizes the JMS system modules that have been created for this domain.

[Customize this table](#)

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	BPMJMSModule	System
<input type="checkbox"/>	OTSSETPMJMSModule	System
<input type="checkbox"/>	SOAJMSModule	System
<input type="checkbox"/>	UMSJMSSystemResource	System

3. Click on **OTSSETPMJMSModule**.

The list of resources should include the following:

- OTSSETPMConnectionFactory
- OTSSPaymentPosting
- OTSSPaymentPostingError
- OTSSPaymentReport
- OTSSPaymentReportError
- OTSSServiceRequest
- OTSSServiceRequestError

Settings for OTSSETPMJMSModule

Configuration | Subdeployments | Targets | Security | Notes

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name: OTSSETPMJMSModule The name of this JMS system module. [More Info...](#)

Descriptor File Name: jms/otssetpmjmsmodule-jms.xml The name of the JMS module descriptor file. [More Info...](#)

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

[Customize this table](#)

Summary of Resources

New Delete Showing 1 to 7 of 7 Previous | Next

<input type="checkbox"/>	Name	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/>	OTSSETPMConnectionFactory	Connection Factory	.jms/OTSSETPMConnectionFactory	OTSSETPMSubDeployment	OTSSETPMJMSServer
<input type="checkbox"/>	OTSSPaymentPosting	Queue	.jms/OTSSPaymentPosting	OTSSETPMSubDeployment	OTSSETPMJMSServer
<input type="checkbox"/>	OTSSPaymentPostingError	Queue	.jms/OTSSPaymentPostingError	OTSSETPMSubDeployment	OTSSETPMJMSServer
<input type="checkbox"/>	OTSSPaymentReport	Queue	.jms/OTSSPaymentReport	OTSSETPMSubDeployment	OTSSETPMJMSServer
<input type="checkbox"/>	OTSSPaymentReportError	Queue	.jms/OTSSPaymentReportError	OTSSETPMSubDeployment	OTSSETPMJMSServer
<input type="checkbox"/>	OTSSServiceRequest	Queue	.jms/OTSSServiceRequest	OTSSETPMSubDeployment	OTSSETPMJMSServer
<input type="checkbox"/>	OTSSServiceRequestError	Queue	.jms/OTSSServiceRequestError	OTSSETPMSubDeployment	OTSSETPMJMSServer

New Delete Showing 1 to 7 of 7 Previous | Next

Verifying the OTSS-SOADS1 Data Source has been Created

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:

<input type="checkbox"/>	DbAdapter	Active	OK	Resource Adapter	322
--------------------------	-----------	--------	----	------------------	-----

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

Settings for DbAdapter

Overview | Deployment Plan | **Configuration** | Security | Targets | Control | Testing | Monitoring | Notes

General | Properties | **Outbound Connection Pools** | Admin Objects | Workload | Instrumentation

This page displays a table of Outbound Connection Pool groups and instances for this resource adapter. The top level entries in the table represent Outbound Connection Pool groups. Groups are listed by connection factory interface and the instances are listed by their JNDI names. Expand a group to obtain configuration information for a Connection Pool instance within an Outbound Connection Pool group. Click the name of a group or instance to configure it. Automatically generated Connection Pools are not displayed in the table below.

Outbound Connection Pool Configuration Table

New Delete Showing 1 to 1 of 1 Previous | Next

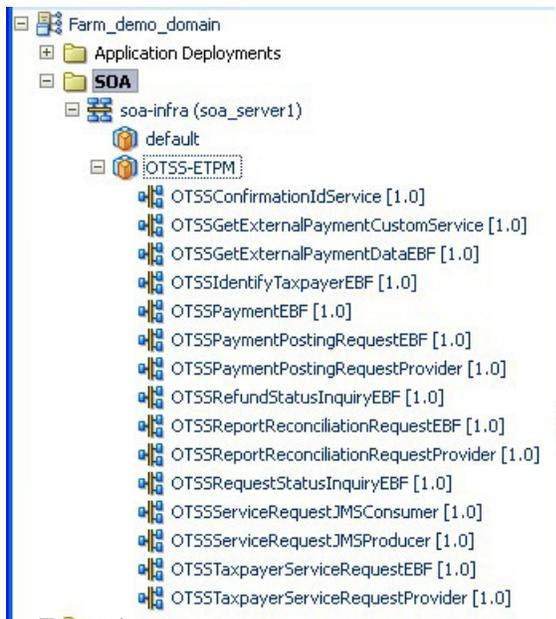
<input type="checkbox"/> Groups and Instances	Connection Factory Interface
<input type="checkbox"/> javax.resource.cci.ConnectionFactory	javax.resource.cci.ConnectionFactory
<input type="checkbox"/> eis/DB/OTSS-SOADS1	javax.resource.cci.ConnectionFactory
<input type="checkbox"/> eis/DB/SOADemo	javax.resource.cci.ConnectionFactory

New Delete Showing 1 to 1 of 1 Previous | Next

Verifying the Composites in Enterprise Manager

To verify that the ETPMSS-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_soa_domain > soa > soa-infra** OTSS-ETPM partition.



3. Verify that following composites are deployed (there should be a total of 15):
 - OTSSConfirmationIdService
 - OTSSGetExternalPaymentCustomService

- OTSSGetExternalPaymentDataEBF
- OTSSIdentifyTaxpayerEBF
- OTSSPaymentEBF
- OTSSPaymentPostingRequestEBF
- OTSSPaymentPostingRequestProvider
- OTSSRefundStatusInquiryEBF
- OTSSReportReconciliationRequestEBF
- OTSSReportReconciliationRequestProvider
- OTSSRequestStatusInquiryEBF
- OTSSServiceRequestJMSConsumer
- OTSSServiceRequestJMSProducer
- OTSSTaxpayerServiceRequestEBF
- OTSSTaxpayerServiceRequestProvider

Chapter 4

Additional Installation Instructions for ETPM-SS Demo

The following tasks should be performed *after* the standard installation process is completed and the portal application is deployed and available:

1. *Importing UCM content*
2. *Importing MDS*

Importing UCM Content for Demo Environment

This task imports all Demo custom content to the UCM server of your Demo environment. This content can be moved to other environments if needed. For more information about managing UCM content please refer to the "Managing Portal Customization" section in the **Customizing the Portal Application** chapter of the *ETPM-SS Implementation Guide*.

Importing content into UCM is done by using the WebCenter Content Server Archiver process.

The export file that should be imported is **etpmss_v1.0.0_demo_ucm.zip**, which is provided with the demo installation package.

The following document contains the high-level steps for working with the archiver: <http://www.oracle.com/technetwork/middleware/webcenter/portal/learnmore/wcp-content-archive-1599310.pdf>

Importing MDS for Demo Environment

This task imports all portal customizations for the Demo environment.

The MDS archive file that should be imported is **ETPMSS_V1.0.0_MDS.zip**, which is provided with the demo installation package.

The import process is performed using Oracle Enterprise Manager. The provided MDS archive file should be imported into the installed Demo environment.

For more information on how to import or export MDS for ETPM-SS, refer to the "Managing Portal Customization" section in the **Customizing the Portal Application** chapter of the *ETPM-SS Implementation Guide*.

Application Override Bundle File

The **WSSPortalOverrideBundle_en.xlf** file that is provided with the Demo installation package is provided for reference only. This file is included in the MDS archive file.

The Application Override Bundle includes settings for the portal application, for example:

- The text that appears on the top of the screen below the logo image.
- The custom links and icons that appear at the bottom of each page.
- The copyright message at the bottom of the screen.
- Changes to labels or titles of the portal application.

If you want to make changes to the values provided with the Demo installation, you can change or add content to the Application Override Bundle file, replacing the file in the original MDS archive and re-importing it.

The file can be located inside the MDS archive file under the **xliffBundles** subdirectory when the archive is expanded.

Chapter 5

Integrating Documaker with ETPM

Online Document Display and Batch Document Integration with Oracle Documaker

Oracle Documaker enables Adobe's Portable Document Format (PDF) to be used for on-line viewing and Internet delivery of online letter documents. This section describes how Oracle Enterprise Taxation and Policy Management can be integrated with Documaker to enable letters to be viewed online.

Documaker can also be used to generate letters using Oracle Enterprise Taxation and Policy Management's batch functionality. To configure this functionality, make sure that the batch job used to produce letters references the appropriate file path as configured by an implementation.

Documaker software must be purchased and installed separately. Documaker can be purchased and licensed from the Oracle Software Delivery Cloud ([http:// edelivery.oracle.com/](http://edelivery.oracle.com/)).

Supported Documaker Versions

At the time of release of this product, Oracle Enterprise Taxation and Policy Management 2.3.1 supports Oracle Documaker Release 12.0 for Windows and 12.0 for Linux.

Supported Oracle Documaker Templates

Oracle Enterprise Taxation and Policy Management includes a sample algorithm to extract data for letters to integrate with Documaker.

Refer to **Defining Taxpayer Options > Setting Up Customer Contact Options > Letter Printing** in the *Oracle Enterprise Taxation and Policy Management Administration Guide* online Help for additional information.

Installing and Integrating Documaker Templates with ETPM

Follow this procedure to integrate the supplied Oracle Documaker templates with your ETPM installation, and to configure your system for the integration.

1. Log in to the target server hosting the environment that you are setting up for online image display.
2. Initialize the target environment:

On UNIX:

```
$SPLEBASE/bin/splenvron.sh -e <SPLENVIRON>
```

On Windows:

```
%SPLEBASE%\bin\splenvron.cmd -e <SPLENVIRON>
```

3. Add the following environmental variables:

Environment Variable	Description
DOCDISPINI	Location of the ini file. Example value: <code>\$SPLEBASE/etc/docldirfile.ini</code>
DOCHOSTDIR	The value of DOCHOSTDIR should be set to the location where Documaker has been installed. Example value: <code>/ouaf/documaker/rel201</code>
DOCPATH	Location where the generated files from the batch are located. Example value: <code>/ouaf/sploutput/V231_ETPM</code>

You can add these environment variables by using `cmenv.sh/cmenv.cmd exit`, as documented in the *OUAF Technical Best Practices Guide*.

Example for UNIX:

```
$SPLEBASE/scripts/cm
#> cat cmenv.sh
DOCDISPINI=$SPLEBASE/etc/docldirfile.ini; export DOCDISPINI DOCHOSTDIR=/ouaf/documaker/rel115; export DOCHOSTDIR DOCPATH=/ouaf/sploutput/V231_ETPM; export DOCPATH
```

Example for Windows:

```
%SPLEBASE%/scripts/cm
#> type cmenv.cmd
SET DOCDISPINI=%SPLEBASE%\etc\docldirfile.ini
SET DOCHOSTDIR=C:\ouaf\documaker\rel115
SET DOCPATH=C:\ouaf\sploutput\V231_ETPM
```

4. Run the `initialSetup` utility for the environment to generate the Oracle Enterprise Taxation and Policy Management related Documaker INI files:

On UNIX:

```
$SPLEBASE/bin/initialSetup.sh
```

On Windows:

```
%SPLEBASE%\bin\initialSetup.cmd
```

5. Stop and start the environment:

On UNIX:

```
$SPLEBASE/bin/spl.sh stop/start
```

On Windows:

```
%SPLEBASE%\bin\spl.cmd stop/start
```

6. Copy the file ETPM-<OS>.jar to a temporary folder (referred to hereafter as <TEMPDIR>) on the target server. If you are using FTP to transfer this file to a UNIX server, remember to use the **BINARY** option for the FTP transfer.

Note: For UNIX, copy the **ETPM-Unix.jar**. On Windows, copy the **ETP-Windows.jar**

7. Decompress the file:

```
cd <TEMPDIR>
jar -xvf ETPM--<OSplatform>.jar
```

On UNIX:

```
find . -type f | xargs chmod 750
```

The ETM folder will be extracted.

8. If one does not already exist, create a folder named **etm** under the Oracle Documaker host directory <DOCHOSTDIR>. Copy the contents of the appropriate **etm** folder in the <TEMPDIR> to the **etm** directory Oracle Documaker host directory on the target application server (see the "Software Requirements" section in the *Oracle Enterprise Taxation and Policy Management Installation Guide* for the installation location).

It should be at the same level as the **fap** folder.

Example contents of <\$DOCHOSTDIR>/etm:

```
|-- etm
|  |-- data
|  |-- deflib
|  |-- forlib
|  |-- forms
|  |-- input
|  |-- table
```

9. Ensure that the Oracle Enterprise Taxation and Policy Management Administrator user ID (typically *cissys*) has execute permissions to all files in the <DOCHOSTDIR>/fap and <DOCHOSTDIR>/etm folders.

Table 2: Sample Directory Structure

Directory	Contents
<DOCHOSTDIR>/FAP	Documaker binaries
<DOCHOSTDIR>/etm	ETPM templates and driver programs
<DOCHOSTDIR>/tax/examples	ETPM example PDFs

Sample Generated Ini File

The following files will be populated during the execution of the *initialSetup* utility.

Example on UNIX: docldirfile.ini

```
ONLINE DOC HOST=/ouaf/documaker/re1115
ONLINE DOC TEMPLATE=/ouaf/documaker/re1115/etm
DOC EXTRACT PATH=/ouaf/sploutput/V231_ETPM/
DOC IMAGE PATH=/ouaf/V231_ETPM /splapp/letterView/
DOC IMAGE SCRIPT=/ouaf/documaker/re1115/etm/_PrintDoc.sh
URL PREFIX=/ouaf/letterView/
```

Oracle Documaker Integration

This section describes the ETPM components that are used for displaying letters using Oracle Documaker.

Oracle Documaker Algorithm

The base product provides an installation algorithm plug-in spot called **Online Letter Image**. This plug-in spot should contain an algorithm that invokes the **Create PDF of Letter** image by calling Oracle Documaker.

Oracle Enterprise Taxation and Policy Management provides an algorithm type and a corresponding algorithm called **C1-LT-DISP**, which invokes Oracle Documaker. This algorithm is responsible for calling the letter extract program and passing the letter information flat file to the document image generator script defined in the documentation ini file to create a letter image in PDF format. The URL of this PDF file is then returned back to the client browser, which renders the letter image.

To use the base algorithm, navigate to the **Installation Options - Framework**, and add an entry to the algorithm collection with an algorithm entity of **Online Letter Image** and the algorithm **C1-LT-DISP**.

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.

```
<?xml version="1.0" standalone="yes"?>
<config>
  <OTSS-ETPM>
    <modulename>OTSS-ETPM</modulename>
    <ETPM>
      <ApplicationUsername>SYSUSER</ApplicationUsername>
      <ApplicationPassword> </ApplicationPassword>
      <AdminServer>
        <hostname>AdminServer.us.oracle.com</hostname>
        <portnumber>7001</portnumber>
        <servername>myserver</servername>
        <appcontextroot>ouaf</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>
```

```

<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>
<JMS>
  <serverName>OTSSETPMJMSModule</serverName>
  <ModuleName>OTSSETPMJMSModule</ModuleName>
  <SubDeploymentName>OTSSETPMSubDeployment</SubDeploymentName>
  <TargetServerName> </TargetServerName>
<PersistantStoreName>OTSSETPMFileStore</PersistantStoreName>
<PersistantStoreType>FileStores</PersistantStoreType>
<PersistantStoreFilename> </PersistantStoreFilename>
  </JMS>
</SOA>
<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>
</config>

```

InstallProperties Descriptions and Examples

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

Property	Description	Example
<config>		
<modulename>	Name of the integration module	Default: OTSS-ETPM Do not change this value.
<ETPM>		
<AdminServer>	Currently not used; leave subelements blank	
<hostname>	Host name of the server in which the ETPM admin server is installed	

Property	Description	Example
<portnumber>	ETPM port number the admin server is listening to	
<servername>	Admin ETPM server name	
<username>	User name used to log in as an Admin server administrator	
<appcontextroot>	Context root of the ETPM 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>		
<AdminServer>		
<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
<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	
<ManagedServer>		
<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

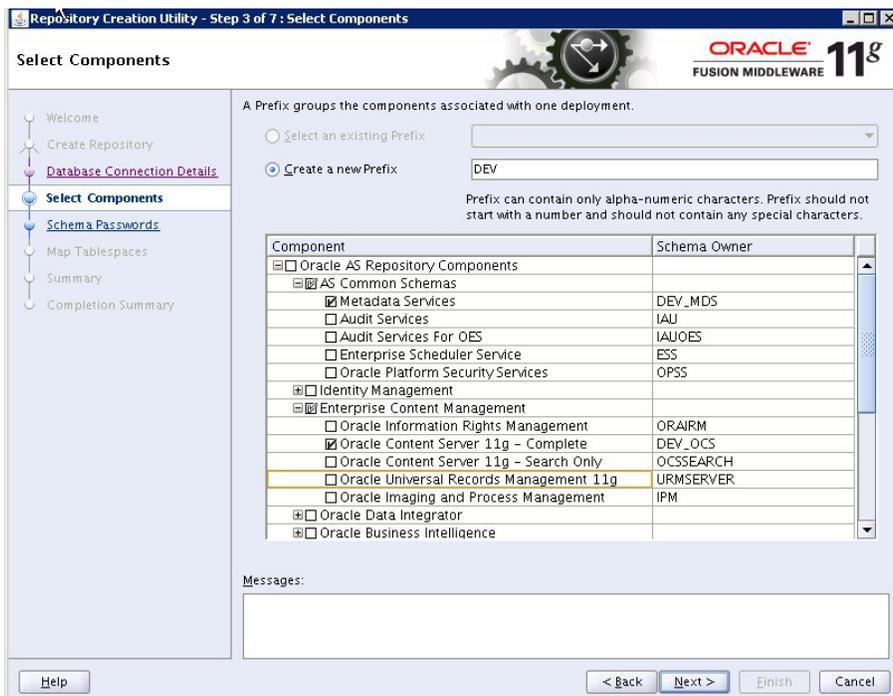
Property	Description	Example
<servername>	Managed server name (hosting SOA suite)	soa-server1
<username>	User name used to log in to managed server (hosting SOA suite) as an administrator.	weblogic
<password>	Password used to log in to managed server (hosting SOA suite) as an administrator. Note: This 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	OTSSETPMJMServer
<ModuleName>	Module name hosting the JMS queue.	OTSSETPMJMSModule
<SubDeploymentName>	Sub deployment name for JMS queues	OTSSETPMSubDeployment
<TargetServerName>	WebLogic managed server name.	soa-server1
<PersistentStoreName>	JMS persistent store name	OTSSETPMFileStore
<PersitentStoreType>	JMS persistent store name	FileStores
<PersistentStoreFilename>	JMS persistent store type (FileStores)	
<DS>		
<dba.dbusername>	User name used to log in as a database administrator (DBA).\br/> This database hosts the schema required for the ETPMSS Direct Flows Integration	system
<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 OTSSBPPEL schema for ETPM SS Direct Flows integration. This user can be automatically created by the install (set dbuser.createflag to true) or manually outside the install process.	

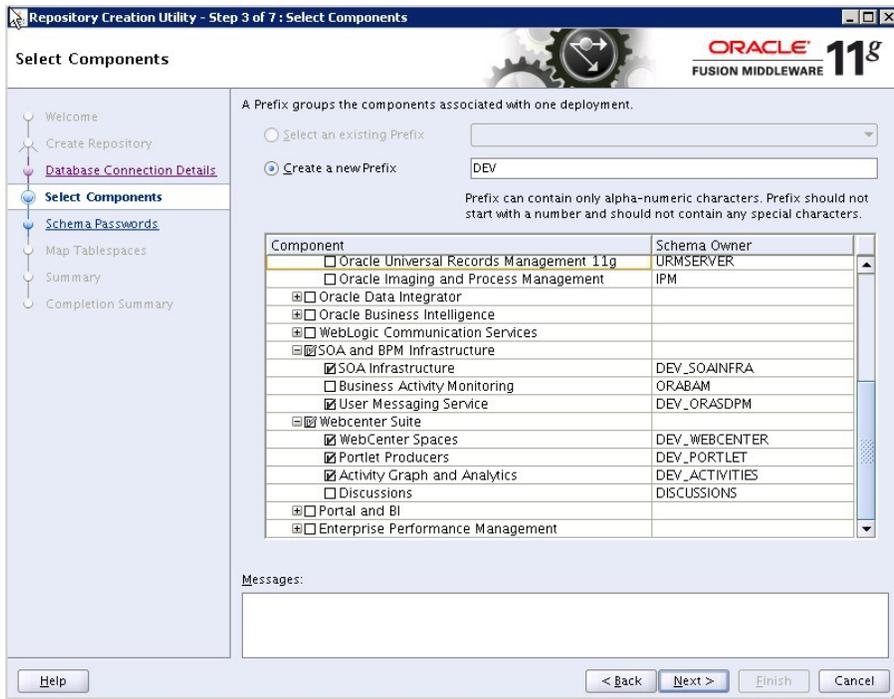
Property	Description	Example
<dbuserpassword>	Password used to log in to OTSSBP EL schema for ETPM SS Direct Flows Integration. Note: This is a Security Value.	
<dbuser.createflag>	Flag specifying whether to create a new schema or use the existing schema for ETPMSS Direct Flows Integration. If the schema 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 (this is case sensitive)	true
<dbhostname>	Database host name used for ETPM SS Direct Flows Integration.	Database.us.oracle.com
<dbportnumber>	Database port number used for ETPM SS Direct Flows Integration.	1521
<dbsid>	Database SID used for ETPM-SS Direct Flows Integration.	SID

Appendix B

RCU Database Creation (Sample)

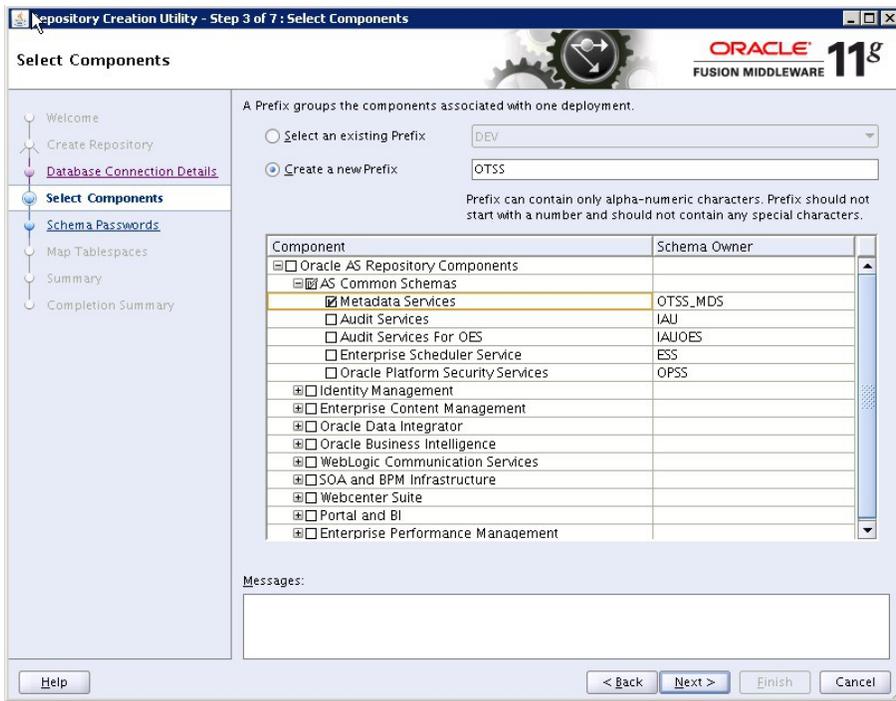
When creating the RCU database you should configure the following components.





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 ETPM-SS application.



Required RCU Components

Schema Owner

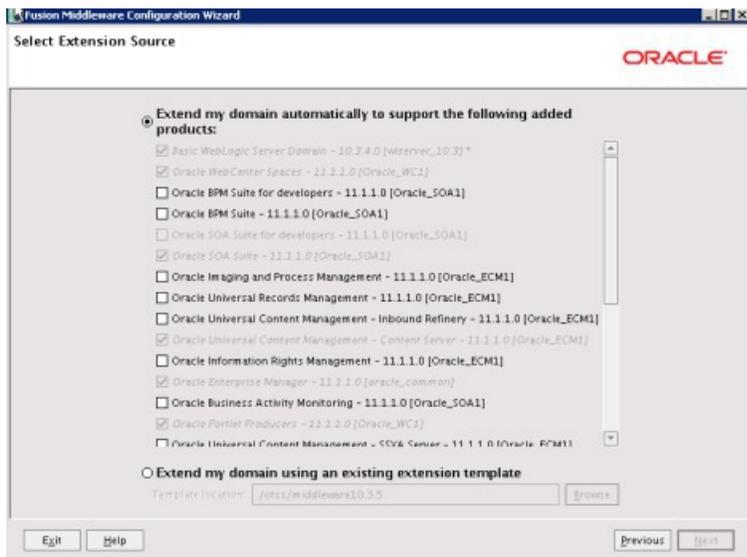
Metadata Services

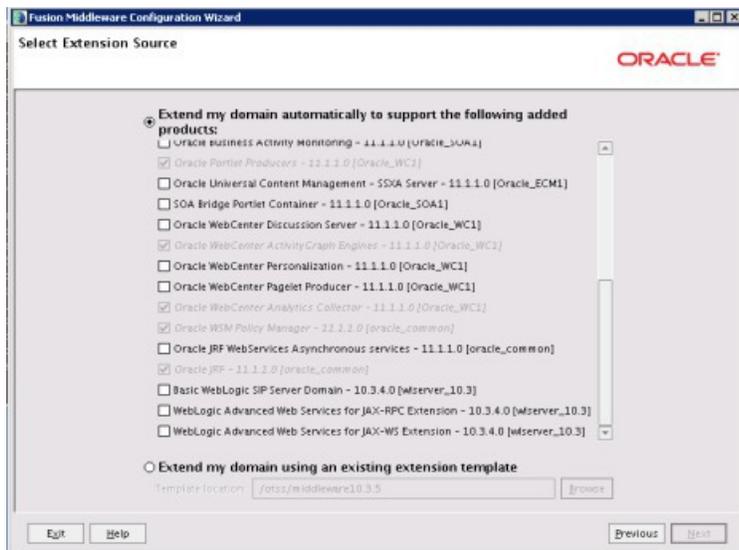
<PREFIX>_MDS

Appendix C

ETPM-SS Sample Domain Creation

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





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 (when installing into same domain)
- 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.

Fusion Middleware Configuration Wizard

Configure JDBC Component Schema

ORACLE

Note: Change only the input fields below that you wish to modify and values will be applied to all selected rows.

Vendor: Oracle DBMS/Service: Varies among component schemas
 Driver: *Oracle's Driver (Thin) for Service connections; Versions: 9.0.3 Host Name: dbhost.example.com
 Schema Owner: Varies among component schemas Port: 1521
 Schema Password: Enter a value

Configure selected component schemas as RAC multi data source schemas in the next panel

Component Schema	DBMS/Service	Host Name	Port	Schema Owner	Schema Password
<input checked="" type="checkbox"/> ActivitiesDS Schema	orcl	dbhost.example.cor	1521	DEV_ACTIVITIES	
<input checked="" type="checkbox"/> UCM Schema	service_name	dbhost.example.cor	1521	DEV_OCS	
<input checked="" type="checkbox"/> SOA Infrastructure	orcl	dbhost.example.cor	1521	DEV_SOAINFRA	
<input checked="" type="checkbox"/> User Messaging Service	orcl	dbhost.example.cor	1521	DEV_ORASDPM	
<input checked="" type="checkbox"/> PortletDS Schema	orcl	dbhost.example.cor	1521	DEV_PORTLET	
<input checked="" type="checkbox"/> WebCenterDS Schema	orcl	dbhost.example.cor	1521	DEV_WEBCENTER	
<input checked="" type="checkbox"/> WebCenter MDS Schema	orcl	dbhost.example.cor	1521	DEV_MDS	
<input checked="" type="checkbox"/> OWSEM MDS Schema	orcl	dbhost.example.cor	1521	DEV_MDS	
<input checked="" type="checkbox"/> SOA MDS Schema	orcl	dbhost.example.cor	1521	DEV_MDS	

Exit Help Previous Next

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 ETPM-SS:



Data Sources (Filtered - More Columns Exist)

<input type="checkbox"/> Name ↕	Type	JNDI Name	Targets
<input type="checkbox"/> ActivitiesDS	Generic	jdbc/ActivitiesDS	WC_Uilities, WC_Spaces
<input type="checkbox"/> CSDS	Generic	CSDS	UCM_server1
<input type="checkbox"/> EDNDatDS	Generic	jdbc/EDNDatDS	soa_server1
<input type="checkbox"/> EDNLocalTxDataDS	Generic	jdbc/EDNLocalTxDataDS	soa_server1
<input type="checkbox"/> mds-owsm	Generic	jdbc/mds/owsm	AdminServer, WC_Portlet, soa_server1, WC_Spaces
<input type="checkbox"/> mds-soa	Generic	jdbc/mds/MDS_LocalTxDataDS	AdminServer, soa_server1
<input type="checkbox"/> mds-SpacesDS	Generic	jdbc/mds/SpacesDS	AdminServer, WC_Spaces
<input type="checkbox"/> OraSDPMDatDS	Generic	jdbc/OraSDPMDatDS	soa_server1
<input type="checkbox"/> PortletDS	Generic	jdbc/portletPrefs	WC_Portlet
<input type="checkbox"/> SOADatDS	Generic	jdbc/SOADatDS	soa_server1
<input type="checkbox"/> SOALocalTxDataDS	Generic	jdbc/SOALocalTxDataDS	soa_server1
<input type="checkbox"/> WebCenterDS	Generic	jdbc/WebCenterDS	WC_Spaces

Appendix E

Sample Summary of Servers

The following are the servers that need to be installed into the domain prior to installing ETPM-SS.

Note: The `soa_server1` can be installed into a separate domain.

The screenshot shows a web console window titled "Summary of Servers". It has two tabs: "Configuration" (selected) and "Control". Below the tabs, there is a brief description: "A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain." Below this is a search bar and a "Customize this table" link. The main content is a table titled "Servers (Filtered - More Columns Exist)". The table has columns for Name, Cluster, Machine, State, Health, and Listen Port. There are six rows of server data. At the bottom of the table, there are "New", "Clone", and "Delete" buttons and a pagination indicator "Showing 1 to 6 of 6 Previous | Next".

<input type="checkbox"/>	Name	Cluster	Machine	State	Health	Listen Port
<input type="checkbox"/>	AdminServer(admin)		initialInstall	RUNNING	OK	6001
<input type="checkbox"/>	soa_server1		initialInstall	SHUTDOWN		11001
<input type="checkbox"/>	UCH_server1		initialInstall	SHUTDOWN		17200
<input type="checkbox"/>	WC_Portlet		initialInstall	SHUTDOWN		9889
<input type="checkbox"/>	WC_Spaces		initialInstall	SHUTDOWN		9888
<input type="checkbox"/>	WC_Uilities		initialInstall	SHUTDOWN		9891

Appendix F

Installation Properties

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

```
<?xmlversion="1.0" standalone="yes"?>
<config>
  <WSS>
    <modulename>ETPM-SS-APPLICATION</modulename>
    <otss>
      <username> </username>
      <password> </password>
      <AdminServer>
        <protocol>t3</protocol>
        <hostname> </hostname>
        <portnumber> </portnumber>
        <servername> </servername>
        <username> </username>
        <password> </password>
        <domainname> </domainname>
        <realmName> </realmName>
      </AdminServer>
      <ManagedServer>
        <hostname> </hostname>
        <portnumber> </portnumber>
        <servername> </servername>
        <machine> </machine>
      </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>
        <msbdbusername> </msbdbusername>
        <msbdbuserpassword> </msbdbuserpassword>
        <msbdbhostname> </msbdbhostname>
        <msbdbportnumber> </msbdbportnumber>
        <msdbsid> </msdbsid>
    </mdsconfig>
</otss>
<UCM>
    <hostnamejcr> </hostnamejcr>
    <portnumberjcr> </portnumberjcr>
</UCM>
<SOA>
    <ManagedServer>
        <hostname> </hostname>
        <portnumber> </portnumber>
        <servername> </servername>
        <protocol> </protocol>
    </ManagedServer>
</SOA>
</WSS>
</config>

```

ETPM-SS-InstallProperties.xml Descriptions and Examples

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

XPath	Description	Example
Modulename	ModuleName for which this installation property is used. Not used by installation framework. Hardcoded to "ETPM-SS-APPLICATION".	
/config/otss/username	The username used to access the ETPM-SS Application. This will be created during the installation.	
/config/otss/password	The password that will be used to access the ETPM-SS 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	t3
/config/otss/AdminServer/hostname	Hostname of Admin Server of WebLogic domain hosting ETPM-SS application	ETPM-SS-hostname.oracle.com
/config/otss/AdminServer/portnumber	Port Number of Admin Server of WebLogic domain hosting ETPM-SS application	7001
/config/otss/AdminServer/servername	Managed server name for the Admin Server hosting server.	AdminServer

XPath	Description	Example
/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/domainname	WebLogic domain name hosting ETPM-SS managed server	base_domain
/config/otss//AdminServer/realmname	Realm name of the embedded WebLogic LDAP configured for WebLogic domain hosting ETPM-SS	myrealm
/config/otss//ManagedServer/hostname	Hostname of Managed server hosting ETPM-SS Note: Will be utilized during installation process.	ETPM-SS-hostname.oracle.com
/config/otss//ManagedServer/portnumber	Managed server port number. Note: Will be utilized during installation process. This port number should not be already used by a different process on the server.	
/config/otss//ManagedServer/servername	Managed server name hosting ETPM-SS Note: Will be created during installation process.	etpm-ss
/config/otss//ManagedServer/machinename	Machine name to associate with the managed server name hosting ETPM-SS Note: The Administration Server uses the machine definition in conjunction with Node Manager to start remote servers, during the installation process.	
/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 ETPM-SS specific DB objects	WSSADM
/config/otss//DB/dbuserpassword	Password of DB username which will host ETPM-SS specific DB objects. Note: This is a Security Value.	
/config/otss//DB/dbuser.createflag	Flag to state whether to create database user or user already exist. Valid values: true – Create user during the installation of ETPM-SS.	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

XPath	Description	Example
/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.	DEV_MDS
/config/otss/mdsconfig/mdsdbuserpassword	Password to connect to 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. The value should be 4444.	4444
/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/protocol	The protocol to access the SOA Server (https or http)	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 3: Installation Options

Option	Description	Tasks Performed
i	Full installation of ETPM-SS	<ul style="list-style-type: none">• Validates Installation Properties• Creates a WebLogic managed server• Links needed Libraries and applications to the WebLogic managed server• Creates a MetaData Repository mds-OTSS_MDS• Creates a Database Source WSSDS• Deploys ETPM-SS shared library• Configures and Deploys ETPM-SS ear File• Creates and Installs a Database Schema for ETPM-SS
d	Full uninstallation of ETPM-SS	<ul style="list-style-type: none">• Validates Installation Properties• Removes a WebLogic managed server• Removes a MetaData Repository mds-OTSS_MDS• Removes a Database Source WSSDS• Undeploys ETPM-SS ear File• Undeploys ETPM-SS shared library• Drops a Database Schema for ETPM-SS <p>Note: You will need to manually drop the ETPMSS Schema that was created.</p>

Option	Description	Tasks Performed
r	Redeployment of ETPM-SS components	<ul style="list-style-type: none"> • Validates Installation Properties • Undeploys ETPM-SS Application ear • Deploys ETPM-SS Application ear • Undeploys ETPM-SS shared library • Deploys ETPM-SS 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>:<SOAPPortNumber>/soa/composer
UCM Console	http://<UCMHost>:<UCMPortNumber>/cs
ETPM-SS (Public)	http://<ETPM-SS-HostName: < ETPM-SS-Port Number>/etpmss/faces/pages_ home
ETPM-SS (Admin)	http://<ETPM-SS-HostName: < ETPM-SS-Port Number>/etpmss/faces/oracle/ webcenter/portalapp/pages/login.jspx

Appendix I

Integration Environment Settings Example

The following is an example of setting the needed environment variables for the ETPMSS-ETPM Integration.

On Linux:

```
PRODUCT_HOME=/ouaf/versions/Releases/OTSS/BPEL-Release-V1.0.0-InitialInstall/OTSS-ETPM/;
  export PRODUCT_HOME
WL_HOME=/etpm-ss/qa2_middleware1035/; export WL_HOME
SOA_HOME=etpm-ss/qa2_middleware1035/Oracle_SOA1; export SOA_HOME
ORACLE_HOME=/etpm-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\etpm-ss\OTSS-Release-V1.0.0-Initialinstall\OTSS-ETPM
SET WL_HOME=C:\etpm-ss\middleware10.3.5;
SET SOA_HOME=C:\etpm-ss\middleware10.3.5\Oracle_SOA1
SET ORACLE_HOME=C:\etpm-ss\middleware10.3.5\Oracle_SOA1;
run C:\etpm-ss\middleware10.3.5\wlserver_10.3\server\bin\setWLSEnv.cmd

cd %PRODUCT_HOME%\bin
```

For additional details, see Appendix A.

Appendix J

ETPM-SS Environment Settings Example

The following is an example of setting the needed environment variables for the installation of ETPM-SS.

On Linux:

```
PRODUCT_HOME=/etpm-ss/version/OTSS-Release-V1.0.0-Initialinstall/; export PRODUCT_HOME
WL_HOME=/ etpm-ss /middleware10.3.5; export WL_HOME
SOA_HOME=/ etpm-ss /middleware10.3.5/Oracle_SOA1; export SOA_HOME
ORACLE_HOME=/ etpm-ss /middleware10.3.5/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\etpm-ss\OTSS-Release-V1.0.0-Initialinstall\
SET WL_HOME=C:\etpm-ss\middleware10.3.5;
SET SOA_HOME=C:\etpm-ss\middleware10.3.5\Oracle_SOA1
SET ORACLE_HOME=C:\etpm-ss\middleware10.3.5\Oracle_SOA1;
run C:\etpm-ss\middleware10.3.5\wlserver_10.3\server\bin\setWLSEnv.cmd
cd %PRODUCT_HOME%\bin
```