

FLEXCUBE UBS Outbound
Application Adapter Installation
Document
Version 14.3.0.0.0
FLEXCUBE KERNEL
[May] [2019]



Contents

Installation Steps	2
1.1 Prerequisite	2
1.2 Steps	2
Appendix	20
2.1 Configuring SSIAD MDB with IBM WebSphere MQ	20

Installation Steps

1.1 Prerequisite

- ✓ Ensure that the basic NOTIFY MDB Gateway Environment Setup is done.
[Please refer [OC4J_NOTIFY_MDB_Installation.doc.](#)]
- ✓ Ensure that the basic Adapter Environment Setup is done.
[Please refer [SSIAD_Installation_FCUBSV.UM8.0.0.0.0.0Lot1.doc.](#)]

1.2 Steps

To configure Oracle10g Application Server with **IBM WebSphere MQ**, follow the steps given in the [Appendix](#).

A. Modify ejb-jar.xml

Open the file **<KERNEL_INSTALL_DIR>\SSIAD_MDB\config\ejb-jar.xml** in any editor for editing.

This file will have a similar section as the one shown below in the < env-entry > tag:

- Set the location of the properties file SSIAD_MDB_Prop.xml as the value of propertyPath.

E.g.: C:/Documents and Settings/SSI_ADAPTER/

[NOTE: Give property file path with forward slash (/) as file separator and remember to give a slash at the end.]

```
<env-entry>
  <env-entry-name>propertyPath</env-entry-name>
  <env-entry-type>java.lang.String</env-entry-type>
  <env-entry-value>C:/Documents and Settings/Gateway/</env-entry-value>
</env-entry>
```

Save the file in the same folder after modification.

B. Configure FLEXCUBE UBS MDB ADAPTER Properties

Edit **<KERNEL_INSTALL_DIR>/SSIAD_MDB/config/SSIAD_MDB_Prop.xml** file to give appropriate values for the properties as described below,

1. XSD_PATH: This property specifies the path where the BaExchangeFileRequest.XSD is stored.
e.g. XSD_PATH=<KERNEL_INSTALL_DIR>/SSIAD_MDB/XSD/
[NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash at the end.]
2. SSI_MDB_XSD: This property specifies the name of the XSD file.
e.g. SSI_MDB_XSD = BaExchangeFileRequest.XSD
3. IS_XSD_VAL_REQD - This property specifies whether XSD validation should be done or not . To enable XSD validation specify "Y" and to disable specify "N".
4. FCUBS_DB_SERVER_IP: This property defines FCUBS Database server IP address.
5. FCUBS_DB_SERVER_UID: This property defines user id for FCUBS Database server.
6. FCUBS_DB_SERVER_PWD: This property defines password for FCUBS Database server.
7. FCUBS_DB_PAYLOAD_PATH: This property defines payload file path on FCUBS Database server.
8. SSIAD_EJB_MH_IP: This property defines SSI MH server IP address.
9. SSIAD_EJB_MH_USERID: This property defines user id for SSI MH server.
10. SSIAD_EJB_MH_PASSWORD: This property defines password for SSI MH server.
11. SSIAD_EJB_MH_ENVELOPE: This property defines envelope file path on SSI MH Server
12. SSIAD_MH_PAYLOAD_PATH: This property defines payload file path on SSI MH server.

13. SSIAD_OB_ENVELOPE_FILE_FOLDER: This property defines local folder name where temporary envelope file will be stored.
eg. SSIAD_OB_ENVELOPE_FILE_FOLDER = "C:/Documents and Settings/Default User/SSIAD_OB_ENVELOPE/"
- [NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash at the end.]**
14. SSIAD_OB_ENVELOPE_FILE_PREFIX: This property specifies envelope file prefix.
eg. SSIAD_OB_ENVELOPE_FILE_PREFIX = "BA".
15. SSIAD_OB_ENVELOPE_FILE_EXTENSION: This property specifies envelope file extension.
eg. SSIAD_OB_ENVELOPE_FILE_EXTENSION = ".xml".
16. SSIAD_OB_ENVELOPE_FILE_SAVE_DATE_FORMAT: This property specifies envelope file date format that will be suffixed with SSIAD_OB_ENVELOPE_FILE_PREFIX.
eg. SSIAD_OB_ENVELOPE_FILE_SAVE_DATE_FORMAT = "yyyyMMddHHMMSSsss".
17. SSIAD_OB_DEAD_ENVELOPE_FILE_FOLDER: This property defines local folder name where dead envelope file will be stored. This folder must be under USER_HOME dir.
eg. SSIAD_OB_DEAD_ENVELOPE_FILE_FOLDER = "C:/Documents and Settings/Default User/SSIAD_OB_DEAD_ENVELOPE/"
- [NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash at the end.]**
18. XSL_PATH: This property specifies the path where the SSIAD_MDB_XSL.XSL is stored.
eg. XSL_PATH = "<KERNEL_INSTALL_DIR>/SSIAD_MDB/XSL/"
- [NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash at the end.]**
19. SSIAD_MDB_XSL: This property specifies the acknowledgement XSL file name.
eg. SSIAD_MDB_XSL = SSIAD_MDB_XSL.xsl
20. LOGGER_PATH: This property specifies the path of the logger property file. This file can be found at <KERNEL_INSTALL_DIR>/SSIAD_MDB/config.
- [NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash at the end.]**

The SSIAD_MDB_Prop.xml will look similar as follows,

```
<add key="XSD_PATH" value="D:/KERNEL_SSIAD_OC4J/SSIAD_MDB/XSD/" />
  <!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <Start> -->
  <add key="SSIAD_MDB_XSD" value="BaExchangeFileRequest.XSD" />
  <add key="IS_XSD_VAL_REQD" value="Y" />
  <!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <End> -->
    <!-- FCUBS DB FTP details -->
    <add key="FCUBS_DB_SERVER_IP" value="10.80.50.227" />
    <add key="FCUBS_DB_SERVER_UID" value="kerneldev" />
    <add key="FCUBS_DB_SERVER_PWD" value="kerneldev" />
    <add key="FCUBS_DB_PAYLOAD_PATH" value="users/outbound/db/payload/" />
    <!-- SSI MH FTP details -->
    <add key="SSIAD_MDB_MH_IP" value="10.80.161.40" />
    <add key="SSIAD_MDB_MH_USERID" value="rashmish" />
    <add key="SSIAD_MDB_MH_PASSWORD" value="Password123" />
    <add key="SSIAD_MDB_MH_ENVELOPE" value="OutBound/OutEnvelop/" />
    <add key="SSIAD_MDB_MH_PAYLOAD_PATH" value="OutBound/OutPayload/" />
    <!-- Outbound Envelope File -->
    <add key="SSIAD_OB_ENVELOPE_FILE_FOLDER" value="C:/Documents and Settings/Default
    User/SSIAD_OB_ENVELOPE/" />
    <add key="SSIAD_OB_ENVELOPE_FILE_PREFIX" value="BA" />
    <add key="SSIAD_OB_ENVELOPE_FILE_EXTENSION" value=".xml" />
    <add key="SSIAD_OB_ENVELOPE_FILE_SAVE_DATE_FORMAT"
    value="yyyyMMddHHMMSSsss" />
    <add key="SSIAD_OB_DEAD_ENVELOPE_FILE_FOLDER"
    value="C:/Documents and Settings/Default User/SSIAD_OB_DEAD_ENVELOPE/" />
    <!-- XSL -->
    <add key="XSL_PATH" value="D:/KERNEL_SSIAD_OC4J/SSIAD_MDB/XSL/" />
    <add key="SSIAD_MDB_XSL" value="SSIAD_MDB_XSL.xml" />
    <!-- MISCELLANEOUS PROPERTIES -->
    <add key="LOGGER_PATH"
    value="D:/KERNEL_SSIAD_OC4J/SSIAD_MDB/config/ssiad_mdb_logger.xml" />
```

C. Configure logger parameters

Edit <KERNEL_INSTALL_DIR>/SSIAD_MDB/config/ssiad_mdb_logger.xml file to change the value of the property "SSIAD.LOGGER.FPATH" to <KERNEL_INSTALL_DIR>/SSIAD_MDB/log/.

E.g. If the value of your <KERNEL_INSTALL_DIR> is D:/Kernel8.0, then the entry for this property will be,

```
<add key="SSIAD.LOGGER.FPATH" value="D:/Kernel8.0/SSIAD_MDB/log"/>
```

[NOTE: Give SSIAD.LOGGER.FPATH with forward slash (/) as file separator and remember to give a slash (/) at the end.]

D. Run the build file

- ✓ For WINDOWS
 - Go to the folder <KERNEL_INSTALL_DIR>\setup in the command prompt, type **"set_env"** and press enter.
 - Change directory to <KERNEL_INSTALL_DIR>\SSIAD_MDB\setup\OC4J in the command prompt, type **"ant"** and press enter.
- ✓ For UNIX
 - Go to the folder <KERNEL_INSTALL_DIR>/setup in the shell prompt, type **"set_env.sh"** and press enter.
 - Change directory to <KERNEL_INSTALL_DIR>/SSIAD_MDB/setup/OC4J in the shell prompt, type **"ant"** and press enter.

[NOTE: Please make sure that you get a message BUILD SUCCESSFUL after compilation.]

D. Deploy the SSIAD MDB in application server

1. Stop the application server.

If the application server is already running, then stop the application server as follows:

- ✓ For WINDOWS
 - Set JAVA_HOME and ORACLE_HOME with the paths in your machine
e.g.
set ORACLE_HOME=D:\Oracle10gAS
set JAVA_HOME=%ORACLE_HOME%\jdk
 - Go to the <APP_SERVER_HOME>/bin directory in the command prompt
e.g. cd %APP_SERVER_HOME%\bin
 - Type **oc4j -shutdown -port 23791 -password <admin_password>**
e.g. oc4j -shutdown -port 23791 -password oc4jadmin
This will stop the server.
- ✓ For UNIX
 - Set JAVA_HOME and ORACLE_HOME with the paths in your machine

e.g.

```
export ORACLE_HOME=/home/Oracle10gAS
```

```
export JAVA_HOME=${ORACLE_HOME}/jdk
```

- Go to the <APP_SERVER_HOME>/bin directory in the command prompt
e.g. `cd ${APP_SERVER_HOME}/bin`
- Type **oc4j -shutdown -port 23791 -password <admin_password>**
e.g. `oc4j -shutdown -port 23791 -password oc4jadmin`
This will stop the server.

2. Start the application server.

✓ For WINDOWS

- Set JAVA_HOME and ORACLE_HOME with the paths in your machine
e.g.

```
set ORACLE_HOME=D:\Oracle10gAS  
set JAVA_HOME=%ORACLE_HOME%\jdk
```
- Go to the <APP_SERVER_HOME>/bin directory in the command prompt
e.g. `cd %APP_SERVER_HOME%\bin`
- Type **oc4j -start**
This will start the server. Ensure that you get no error during start up. If the server start up is proper we shall get the following screen.

✓ For UNIX

- Set JAVA_HOME and ORACLE_HOME with the paths in your machine.
e.g.

```
export ORACLE_HOME=/home/Oracle10gAS  
export JAVA_HOME=${ORACLE_HOME}/jdk
```
- Go to the <APP_SERVER_HOME>/bin directory in the command prompt
E.g. `cd ${APP_SERVER_HOME}/bin`
- Type **oc4j -start**
This will start the server. Ensure that you get no error during start up.

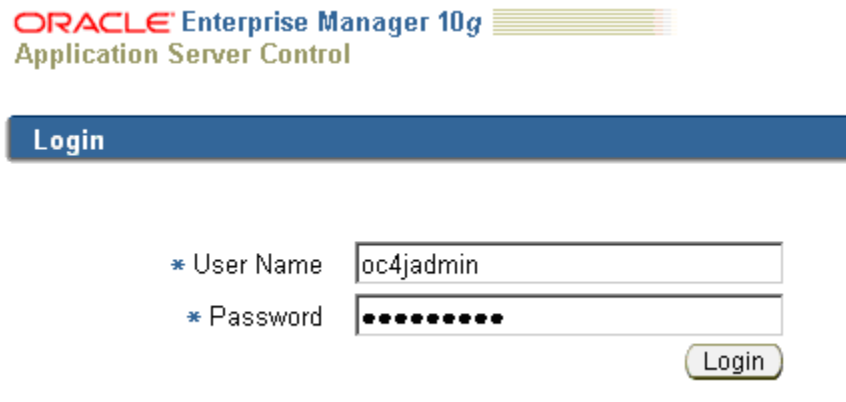
3. Open the Administrative Console of Oracle Enterprise Manager

- ✓ Open an internet browser and type the OC4J Admin Console URL Address of the server.
e.g. <http://10.80.4.116:8888/em>

Where, 10.80.4.116 is the machine IP Address on which OC4J is running.

- ✓ Login to Administrative Console

Enter OC4J administrator username/password and press **Login**.



ORACLE Enterprise Manager 10g
Application Server Control

Login

* User Name

* Password

Login

4. Deploy Resource Adapter

[Refer: [OC4J_RESOURCE_ADAPTER_DEPLOYMENT](#)]

5. Deploying SSIAD_MDB_Bean.ear

- ✓ Click on Applications -> Deploy.





[Home](#) [Applications](#) [Web Services](#) [Performance](#) [Administration](#)

This page shows the J2EE applications and application components (EJB Modules, WAR Modules, Resource Adapter Modules) deployed to this

View Applications

[Start](#) [Stop](#) [Restart](#) [Undeploy](#) [Redeploy](#) [Deploy](#)

[Expand All](#) | [Collapse All](#)

Select	Name	Status	Start Time	Active Requests	Request Processing Time (seconds)	Active EJB Methods	Application Defined MBeans
<input type="radio"/>	▼ All Applications						
<input type="radio"/>	ascontrol	↑	Jun 27, 2007 1:13:06 PM IST	1	0.63	0	
<input checked="" type="radio"/>	▼ default	↑	Jun 27, 2007 1:13:06 PM IST	0	0.00	0	
<input type="radio"/>	▼ GW_EJB_Bean	↑	Jun 27, 2007 1:13:07 PM IST	0	0.00	0	
<input type="radio"/>	GW_HTTP_Servlet	↑	Jun 27, 2007 1:13:07 PM IST	0	0.00	0	
<input type="radio"/>	GW_MDB_Bean	↑	Jun 27, 2007 1:13:16 PM IST	0	0.00	0	
<input type="radio"/>	SSIAD_Client_Servlet	↑	Jun 27, 2007 1:13:17 PM IST	0	0.00	0	
<input type="radio"/>	bc4j	↑	Jun 27, 2007 1:13:06 PM IST	0	0.00	0	

[Home](#) [Applications](#) [Web Services](#) [Performance](#) [Administration](#)

6. The following screen is displayed.

- ✓ Click **Browse**
- ✓ Specify the local path of the enterprise archive file:
<KERNEL_INSTALL_DIR>/SSIAD_MDB/build/SSIAD_MDB_Bean.ear
- ✓ Click **Next**.

ORACLE Enterprise Manager 10g
Application Server Control

Setup Logs Help Logout

Select Archive Application Attributes Deployment Settings

Deploy: Select Archive

Cancel Step 1 of 3 Next

Archive

The following types of archives can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files).

☒ Archive is present on local host. Upload the archive to the server where Application Server Control is running.

Archive Location

☐ Archive is already present on the server where Application Server Control is running.

Location on Server

The location on server must be the absolute path or the relative path from j2ee/home

Deployment Plan

The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application.

☒ Automatically create a new deployment plan.

The deployment plan settings will be based on OC4J defaults and information contained in the archive

☐ Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running.

Plan Location

☐ Deployment plan is already present on server where Application Server Control is running.

Location on Server

The location on server must be the absolute path or the relative path from j2ee/home

Cancel Step 1 of 3 Next

Setup | Logs | Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

7. The following screen is displayed.

- ✓ Enter application name: SSIAD_MDB_Bean.
- ✓ Click **Next**.

ORACLE Enterprise Manager 10g
Application Server Control

Help Logout

Select Archive Application Attributes Deployment Settings

Deploy: Application Attributes

Cancel Back Step 2 of 3 Next

Archive Type J2EE Application (EAR file)
Archive Location D:\KERNEL_SSIAD_OC4J\SSIAD_MDB\build\SSIAD_MDB_Bean.ear
Deployment Plan Creating a new plan

* Application Name SSIAD_MDB_Bean
Parent Application default
Bind Web Module to Site default-web-site

Cancel Back Step 2 of 3 Next

Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

8. The following screen is displayed.

- ✓ Click "Map Environment References"

ORACLE Enterprise Manager 10g
Application Server Control

Help Logout

Select Archive Application Attributes Deployment Settings

Deploy: Deployment Settings

Cancel Back Step 3 of 3 Deploy

Archive Type J2EE Application (EAR file)
Archive Location D:\KERNEL_SSIAD_OC4J\SSIAD_MDB\build\SSIAD_MDB_Bean.ear
Deployment Plan Creating a new plan

Application Name SSIAD_MDB_Bean
Parent Application default
Bind Web Module to Site default-web-site
Context Root

Deployment Tasks

The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled.

Task Name	Go To Task	Description
Map Environment References		Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment.
Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.
Map Security Roles		Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application.
Configure EJBs		Configure the Enterprise JavaBeans in your application.
Configure Clustering		Configure clustering of your application.
Configure Class Loading		Manipulate the classpath of your application.

Advanced Deployment Plan Editing

Click Edit Deployment Plan to set more advanced deployment options.

Edit Deployment Plan

Save Deployment Plan

After you make changes, you can save the deployment plan to your local disk. You can then use the saved deployment plan to redeploy this application later.

Save Deployment Plan

Cancel Back Step 3 of 3 Deploy

Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

9. The following screen is displayed.

- ✓ Map to JNDI Location

[Note: The JNDI names by default are in the table given below. These names can be modified if required in the following screen of the OEM console. In such a situation, remember to modify the corresponding entries in ejb-jar.xml and the GW_MDB_Prop.xml file]

Resource Reference	JNDI Location
SSIAD_MDB_QCF	SSIAD_MDB_QCF
NOTIFY_DEST_QUEUE	NOTIFY_DEST_QUEUE
NOTIFY_MDB_DLQ	NOTIFY_MDB_DLQ

- ✓ Click **OK**



Deployment Settings: Map Environment References

Cancel OK

Archive Type **J2EE Application (EAR file)**
 Archive Location **D:\KERNEL_SSIAD_OC4J\SSIAD_MDB\build\SSIAD_MDB_Bean.ear**
 Deployment Plan **Creating a new plan**

Application Name **SSIAD_MDB_Bean**
 Parent Application **default**
 Bind Web Module to Site **default-web-site**
 Context Root

Map Resource References

The table below lists the resource references which need to be associated with physical entities on the system where the selected instance/cluster is running.

Resource Reference	Description	Type	Referenced By		Map to JNDI Location
			Module	Enterprise Bean	
SSIAD_MDB_QCF	Connection Factory for Response / DLQ	javax.jms.XAQueueConnectionFactory	SSIAD_MDB_Bean.jar	SSI_MDB Adapter	<input type="text" value="SSIAD_MDB_QCF"/>

Map URL Resource References

The table below lists the resource references of type java.net.URL each of which must be linked to a URL.

Resource Reference	Description	Referenced By		Map to URL
		Module	Enterprise Bean	
No resource references were found that need to be mapped to physical resources on the selected instance/cluster.				

Map Resource Environment References

The table below lists all resource environment references found in your application. A resource environment reference needs to be bound to an administered object in the target operational environment.

Resource Environment Reference	Description	Type	Referenced By		Map to JNDI Location
			Module	Enterprise Bean	
NOTIFY_DEST_QUEUE	Queue to send reply to	javax.jms.Queue	SSIAD_MDB_Bean.jar	SSI_MDB Adapter	<input type="text" value="NOTIFY_DEST_QUEUE"/>
NOTIFY_MDB_DLQ	MDB Dead Letter Queue	javax.jms.Queue	SSIAD_MDB_Bean.jar	SSI_MDB Adapter	<input type="text" value="NOTIFY_MDB_DLQ"/>

Map Message Destinations

The table below lists all message destinations found in your application. Logical destinations need to be mapped to physical destinations in the target operational environment.

Message Destination	Description	Referenced By Module	Map to JNDI Location
No message destinations were found in this application			

Map Message Destination References

The table below lists all message destination references that need to be bound to message destinations in the target operational environment.

Message Destination Reference	Description	Type	Usage	Referenced By		Map to JNDI Location
				Module	Enterprise Bean	
No message destination references were found in this application						

Cancel OK

Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

10. The following screen is displayed.

- ✓ Go to **“Configure Class Loading”** Task.

ORACLE® Enterprise Manager 10g
Application Server Control

Help Logout

Select ArchiveApplication AttributesDeployment Settings

Deploy: Deployment Settings

CancelBackStep 3 of 3Deploy

Archive TypeJ2EE Application (EAR file)
Archive LocationD:\KERNEL_SSIAD_OC4J\SSIAD_MDB\build\SSIAD_MDB_Bean.ear
Deployment PlanCreating a new plan

Application NameSSIAD_MDB_Bean
Parent Applicationdefault
Bind Web Module to Sitedefault-web-site
Context Root

Deployment Tasks
The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled.

Task Name	Go To Task	Description
Map Environment References		Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment.
Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.
Map Security Roles		Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application.
Configure EJBs		Configure the Enterprise JavaBeans in your application.
Configure Clustering		Configure clustering of your application.
Configure Class Loading		Manipulate the classpath of your application.

Advanced Deployment Plan Editing
Click Edit Deployment Plan to set more advanced deployment options.

Edit Deployment Plan

Save Deployment Plan
After you make changes, you can save the deployment plan to your local disk. You can then use the saved deployment plan to redeploy this application later.

Save Deployment Plan

CancelBackStep 3 of 3Deploy

HelpLogout

Copyright © 1996, 2005, Oracle. All rights reserved.

11. The following screen is displayed.

- ✓ Navigate to the next page

ORACLE® Enterprise Manager 10g

Application Server Control

Help Logout

Select Archive

Application Attributes

Deployment Settings

Deployment Settings: Configure Class Loading

Cancel

OK

Archive Type

J2EE Application (EAR file)

Application Name

SSIAID_MDB_Bean

Archive Location

D:\KERNEL_SSIAD_OC4J\SSIAID_MDB\build\SSIAID_MDB_Bean.ear

Parent Application

default

Deployment Plan

Creating a new plan

Bind Web Module to Site

default-web-site

Context Root

Import Shared Libraries

The following table lists the shared libraries installed in this OC4J instance. Select Import to declare your application's dependency on a shared library. Optionally specify a minimum or maximum version to import.

☒ Inherit parent application's shared library imports

TIP When checked, future changes to the parent application's shared library imports will be effective to this application.

Previous

1-10 of 22

Next 10

Shared Library	Available Versions	Minimum Version To Use	Maximum Version To Use	Imported By Parent Application	Import
adf.generic.domain	10.1.3				<input type="checkbox"/>
adf.oracle.domain	10.1.3			✓	<input checked="" type="checkbox"/>
global.libraries	1.0			✓	<input checked="" type="checkbox"/>
global.tag.libraries	1.0			✓	<input checked="" type="checkbox"/>
global.wsm.libraries	1.0				<input type="checkbox"/>
oracle.cache	10.1.3			✓	<input checked="" type="checkbox"/>
oracle.dms	3.0			✓	<input checked="" type="checkbox"/>
oracle.expression-evaluator	10.1.3				<input type="checkbox"/>
oracle.gdk	10.1.0_2			✓	<input checked="" type="checkbox"/>
oracle.http.client	10.1.3				<input type="checkbox"/>

Previous

1-10 of 22

Next 10

Configure Application Libraries

Add additional archives or directories to this application's classpath. Specify a path relative to the root of the EAR, or an absolute path on the target server.

Path	Delete
No application libraries have been configured.	
<div>Add Another Row</div>	

Configure Web Module Class Loaders

Use the table below to specify additional code sources for each Web module in your application. These can be either library files or locations for individual class files separated by semi-colons.

Web Module	Search Local Classes First	Include War Manifest Class Path	Classpath
No web modules were found in your application.			

Cancel

OK

Help

Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

12. The following screen is displayed.

- ✓ **Uncheck oracle.xml**
- ✓ **Ok**

ORACLE Enterprise Manager 10g

Application Server Control

Help Logout

Select Archive

Application Attributes

Deployment Settings

Deployment Settings: Configure Class Loading

Cancel

OK

Archive TypeJ2EE Application (EAR file)

Archive LocationD:\KERNEL_SSIAD_OC4J\SSIAD_MDB\build\SSIAD_MDB_Bean.ear

Deployment PlanCreating a new plan

Application NameSSIAD_MDB_Bean

Parent Applicationdefault

Bind Web Module to Site Context Rootdefault-web-site

Import Shared Libraries

The following table lists the shared libraries installed in this OC4J instance. Select Import to declare your application's dependency on a shared library. Optionally specify a minimum or maximum version to import.

☒ Inherit parent application's shared library imports

☒ TIP When checked, future changes to the parent application's shared library imports will be effective to this application.

Previous 10

11-20 of 22

Next 2

Shared Library	Available Versions	Minimum Version To Use	Maximum Version To Use	Imported By Parent Application	Import
oracle.jdbc	10.1.0_2			✓	<input checked="" type="checkbox"/>
oracle.jwsdl	10.1.3			✓	<input checked="" type="checkbox"/>
oracle.sqlj	10.1.3			✓	<input checked="" type="checkbox"/>
oracle.toplink	10.1.3			✓	<input checked="" type="checkbox"/>
oracle.ws.client	10.1.3			✓	<input checked="" type="checkbox"/>
oracle.ws.core	10.1.3				<input type="checkbox"/>
oracle.ws.reliability	10.1.3				<input type="checkbox"/>
oracle.ws.security	10.1.3				<input type="checkbox"/>
oracle.wsm	10.1.3				<input type="checkbox"/>
oracle.xml	10.1.0_2			✓	<input type="checkbox"/>

Previous 10

11-20 of 22

Next 2

Configure Application Libraries

Add additional archives or directories to this application's classpath. Specify a path relative to the root of the EAR, or an absolute path on the target server.

Path	Delete
No application libraries have been configured.	
<div>Add Another Row</div>	

Configure Web Module Class Loaders

Use the table below to specify additional code sources for each Web module in your application. These can be either library files or locations for individual class files separated by semi-colons.

Web Module	Search Local Classes First	Include War Manifest Class Path	Classpath
No web modules were found in your application.			

Cancel

OK

Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

13. The following screen is displayed.

- ✓ Click **Deploy**

ORACLE Enterprise Manager 10g

Application Server Control

Help Logout

Select Archive

Application Attributes

Deployment Settings

Deploy: Deployment Settings

Cancel

Back

Step 3 of 3

Deploy

Archive TypeJ2EE Application (EAR file)

Archive LocationD:\KERNEL_SSIAD_OC4J\SSIAD_MDB\build\SSIAD_MDB_Bean.ear

Deployment PlanCreating a new plan

Application NameSSIAD_MDB_Bean

Parent Applicationdefault

Bind Web Module to Sitedefault-web-site

Context Root

Deployment Tasks

The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled.

Task Name	Go To Task	Description
Map Environment References		Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment.
Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.
Map Security Roles		Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application.
Configure EJBs		Configure the Enterprise JavaBeans in your application.
Configure Clustering		Configure clustering of your application.
Configure Class Loading		Manipulate the classpath of your application.

Advanced Deployment Plan Editing

Click Edit Deployment Plan to set more advanced deployment options.

Edit Deployment Plan

Save Deployment Plan

After you make changes, you can save the deployment plan to your local disk. You can then use the saved deployment plan to redeploy this application later.

Save Deployment Plan

Cancel

Back

Step 3 of 3

Deploy

Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

14. The following screen is displayed.

- ✓ Click **Return**

The screenshot displays the Oracle Enterprise Manager 10g Application Server Control interface. At the top, the title bar reads "ORACLE Enterprise Manager 10g Application Server Control" with "Help" and "Logout" links on the right. Below the title bar, a "Confirmation" section is highlighted, stating: "The Application 'SSIAD_MDB_Bean' has been successfully deployed." To the right of this message is a "Return" button. Below the confirmation message, a "Progress Messages" section is shown, containing a list of log messages from the application deployer. The messages detail the steps from starting the application deployer to completing the deployment, including unpacking the archive, initializing the application, and binding the web application. The final message states: "Application Deployer for SSIAD_MDB_Bean COMPLETES. Operation time: 15515 msec". At the bottom right of the progress messages section is another "Return" button. The footer of the page includes the copyright notice "Copyright © 1996, 2005, Oracle. All rights reserved." and "Help | Logout" links.

ORACLE Enterprise Manager 10g
Application Server Control

Help Logout

Confirmation

The Application "SSIAD_MDB_Bean" has been successfully deployed.

Return

Progress Messages

[Jun 28, 2007 11:20:33 AM] Application Deployer for SSIAD_MDB_Bean STARTS.
[Jun 28, 2007 11:20:33 AM] Copy the archive to D:\OracleAS_1\2ee\home\applications\SSIAD_MDB_Bean.ear
[Jun 28, 2007 11:20:33 AM] Initialize D:\OracleAS_1\2ee\home\applications\SSIAD_MDB_Bean.ear begins...
[Jun 28, 2007 11:20:33 AM] Unpacking SSIAD_MDB_Bean.ear
[Jun 28, 2007 11:20:33 AM] Done unpacking SSIAD_MDB_Bean.ear
[Jun 28, 2007 11:20:33 AM] Unpacking WebSphereMQS.rar
[Jun 28, 2007 11:20:33 AM] Done unpacking WebSphereMQS.rar
[Jun 28, 2007 11:20:33 AM] Initialize D:\OracleAS_1\2ee\home\applications\SSIAD_MDB_Bean.ear ends...
[Jun 28, 2007 11:20:33 AM] Starting application : SSIAD_MDB_Bean
[Jun 28, 2007 11:20:33 AM] Initializing ClassLoader(s)
[Jun 28, 2007 11:20:35 AM] Initializing EJB container
[Jun 28, 2007 11:20:35 AM] Loading connector(s)
[Jun 28, 2007 11:20:35 AM] Starting up resource adapters
[Jun 28, 2007 11:20:35 AM] Processing EJB module: SSIAD_MDB_Bean.jar
[Jun 28, 2007 11:20:35 AM] Compiling EJB generated code
[Jun 28, 2007 11:20:48 AM] Initializing EJB sessions
[Jun 28, 2007 11:20:48 AM] Committing ClassLoader(s)
[Jun 28, 2007 11:20:48 AM] Started application : SSIAD_MDB_Bean
[Jun 28, 2007 11:20:48 AM] Binding web application(s) to site default-web-site begins...
[Jun 28, 2007 11:20:48 AM] Binding web application(s) to site default-web-site ends...
[Jun 28, 2007 11:20:48 AM] Application Deployer for SSIAD_MDB_Bean COMPLETES. Operation time: 15515 msec

Return

Help | Logout

Copyright © 1996, 2005, Oracle. All rights reserved.

15. The following screen is displayed.

ORACLE Enterprise Manager 10g
 Application Server Control

[Setup](#)
[Logs](#)
[Help](#)
[Logout](#)

[Cluster Topology](#) > [Application Server: oracle.DDTD0270.i-flex.com](#) >

OC4J: home
Page Refreshed Jun 28, 2007 11:24:04 AM IST

[Home](#)
[Applications](#)
[Web Services](#)
[Performance](#)
[Administration](#)

This page shows the J2EE applications and application components (EJB Modules, WAR Modules, Resource Adapter Modules) deployed to this OC4J instance.

View
 Applications

[Start](#)
[Stop](#)
[Restart](#)
[Undeploy](#)
[Redeploy](#)
[Deploy](#)

[Expand All](#) | [Collapse All](#)

Select	Name	Status	Start Time	Active Requests	Request Processing Time (seconds)	Active EJB Methods	Application Defined MBeans
<input type="radio"/>	▼ All Applications						
<input type="radio"/>	ascontrol	↑	Jun 27, 2007 1:13:06 PM IST	1	0.00	0	
<input checked="" type="radio"/>	▼ default	↑	Jun 27, 2007 1:13:06 PM IST	0	0.00	0	
<input type="radio"/>	▼ GW_EJB_Bean	↑	Jun 27, 2007 1:13:07 PM IST	0	0.00	0	
<input type="radio"/>	GW_HTTP_Servlet	↑	Jun 27, 2007 1:13:07 PM IST	0	0.00	0	
<input type="radio"/>	GW_MDB_Bean	↑	Jun 27, 2007 1:13:16 PM IST	0	0.00	0	
<input type="radio"/>	SSIAD_Client_Servlet	↑	Jun 27, 2007 1:13:17 PM IST	0	0.00	0	
<input type="radio"/>	SSIAD_EJB_ACK_Bean	↑	Jun 27, 2007 3:56:43 PM IST	0	0.00	0	
<input type="radio"/>	SSIAD_EJB_Bean	↑	Jun 27, 2007 2:54:11 PM IST	0	0.00	0	
<input checked="" type="radio"/>	SSIAD_MDB_Bean	↑	Jun 28, 2007 11:20:48 AM IST	0	0.00	0	
<input type="radio"/>	bc4j	↑	Jun 27, 2007 1:13:06 PM IST	0	0.00	0	

[Start](#)
[Stop](#)
[Restart](#)
[Undeploy](#)
[Redeploy](#)
[Deploy](#)

[Home](#)
[Applications](#)
[Web Services](#)
[Performance](#)
[Administration](#)

[Setup](#) | [Logs](#) | [Help](#) | [Logout](#)

Copyright © 1996, 2005, Oracle. All rights reserved.

2.1 Configuring SSIAD MDB with IBM WebSphere MQ

Follow the steps given below only if the Oracle10g Application Server is to be configured with **IBM WebSphere MQ**.

Before going ahead with the steps given below, please ensure the IBM WebSphere MQ Destinations, Connection Factories and their Bindings are created.

- ✓ Ensure that Queue Destinations, NOTIFY_DEST_QUEUE and NOTIFY_MDB_DLQ are in IBM WebSphere MQ.
- ✓ Create an XA QueueConnectionFactory with the name SSIAD_MDB_QCF
[Refer: [WAS SSIAD WebSphereMQ Installation.doc](#)]
- ✓ Create the bindings to lookup the above given Queues and the Queue Connection Factories (SSIAD_MDB_QCF).
[Note: The path of the .bindings files needs to be specified in orion-application.xml]
[Refer: [WAS SSIAD WebSphereMQ Installation.doc](#)]

The Resource Adapter (used to connect to IBM WebSphere MQ) related files are as given below and are located at

<KERNEL_INSTALL_DIR>\SSIAD_MDB\config\OC4J

- ✓ oc4j-connectors.xml
- ✓ oc4j-ra.xml
- ✓ orion-application.xml
- ✓ orion-ejb-jar.xml
- ✓ ra.xml

In addition, changes have been made to

- ✓ ejb-jar.xml (located at <KERNEL_INSTALL_DIR>\SSIAD_MDB\config)

1. Modify oc4j-connectors.xml

Specify all the Queues involved as given below:

```
<connector name="WebSphereMQS" path="WebSphereMQ.rar">
  <adminobject-config location="NOTIFY_DEST_QUEUE">
    <adminobject-class>oracle.j2ee.ra.jms.generic.AdminObjectQueueImpl</adminobject-class>
    <config-property name="jndiName" value="NOTIFY_DEST_QUEUE"/>
    <config-property name="resourceProviderName" value="WebSphereMQRP"/>
  </adminobject-config>

  <adminobject-config location="NOTIFY_QUEUE">
    <adminobject-class>oracle.j2ee.ra.jms.generic.AdminObjectQueueImpl</adminobject-class>
    <config-property name="jndiName" value="NOTIFY_QUEUE"/>
    <config-property name="resourceProviderName" value="WebSphereMQRP"/>
  </adminobject-config>

  <adminobject-config location="NOTIFY_MDB_DLQ">
    <adminobject-class>oracle.j2ee.ra.jms.generic.AdminObjectQueueImpl</adminobject-class>
    <config-property name="jndiName" value="NOTIFY_MDB_DLQ"/>
    <config-property name="resourceProviderName" value="WebSphereMQRP"/>
  </adminobject-config>
```

2. Modify oc4j-ra.xml

Specify the Queue Connection Factories involved as given below:

```
<connector-factory location="SSIAD_MDB_QCF" connector-name="WebSphereMQS">
  <connectionfactory-interface>javax.jms.XAQueueConnectionFactory</connectionfactory-interface>
  <config-property name="jndiLocation" value="SSIAD_MDB_QCF"/>
</connector-factory>
```

3. Modify orion-application.xml

Define the Resource Provider to be used by the SSIAD MDB.

[Note: Ensure the .bindings file is located in the correct path given below as value of the property name, java.naming.provider.url]

```
<resource-provider
  class="com.evermind.server.deployment.ContextScanningResourceProvider"
  name="WebSphereMQRP">
  <description>WebSphere MQ Resource Provider</description>
  <property name="java.naming.factory.initial"
value="com.sun.jndi.fscontext.RefFSContextFactory"/>
  <property name="java.naming.provider.url" value="file:/D:/Bindings"/>
</resource-provider>
```

4. Modify orion-ejb-jar.xml

Mention the Resource Adapter name and the Resource references as shown below.

```
<message-driven-deployment name="SSIAD_MDB_Bean"
  resource-adapter="WebSphereMQS"
  listener-threads="100"
  subscription-name="SSIAD_MDB_Bean_Sub"
```

```
transaction-timeout="172800">
```

```
<!-- Resource Ref Environment mappings -->
<resource-ref-mapping name=" SSIAD_MDB_QCF" location=" SSIAD_MDB_QCF" />
<resource-env-ref-mapping name="NOTIFY_DEST_QUEUE"
location="NOTIFY_DEST_QUEUE" />
<resource-env-ref-mapping name="NOTIFY_MDB_DLQ" location="NOTIFY_MDB_DLQ" />
<resource-env-ref-mapping name="NOTIFY_QUEUE" location="NOTIFY_QUEUE" />

</message-driven-deployment>
```

5. Modify ra.xml

Specify the Queues and the Queue Connection Factory involved as given below:

```
<!-- Queue admin object -->
<adminobject>
  <adminobject-interface>javax.jms.Queue</adminobject-interface>
  <adminobject-class>oracle.j2ee.ra.jms.generic.AdminObjectQueueImpl</adminobject-class>
  <config-property>
    <config-property-name>jndiName</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>NOTIFY_QUEUE</config-property-value>
  </config-property>
  <config-property>
    <config-property-name>resourceProviderName</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>WebSphereMQRP</config-property-value>
  </config-property>
</adminobject>
<adminobject>
  <adminobject-interface>javax.jms.Queue</adminobject-interface>
  <adminobject-class>oracle.j2ee.ra.jms.generic.AdminObjectQueueImpl</adminobject-class>
  <config-property>
    <config-property-name>jndiName</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>NOTIFY_DEST_QUEUE</config-property-value>
  </config-property>
  <config-property>
    <config-property-name>resourceProviderName</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>WebSphereMQRP</config-property-value>
  </config-property>
</adminobject>
<adminobject>
  <adminobject-interface>javax.jms.Queue</adminobject-interface>
  <adminobject-class>oracle.j2ee.ra.jms.generic.AdminObjectQueueImpl</adminobject-class>
  <config-property>
    <config-property-name>jndiName</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>NOTIFY_MDB_DLQ</config-property-value>
  </config-property>
  <config-property>
    <config-property-name>resourceProviderName</config-property-name>
    <config-property-type>java.lang.String</config-property-type>
    <config-property-value>WebSphereMQRP</config-property-value>
  </config-property>
</adminobject>
```

```

        </config-property>
    </adminobject>

    <!-- inbound configuration -->
    <inbound-resourceadapter>
        <messageadapter>
            <messagelistener>
                <messagelistener-type>javax.jms.MessageListener</messagelistener-type>
                <activationspec>
                    <activationspec-class>oracle.j2ee.ra.jms.generic.JMSActivationSpec</activationspec-
class>
                    <required-config-property>
                        <config-property-name>ConnectionFactoryJndiName</config-property-name>
                        <config-property-name>DestinationName</config-property-name>
                        <config-property-name>DestinationType</config-property-name>
                    </required-config-property>
                </activationspec>
            </messagelistener>
        </messageadapter>
    </inbound-resourceadapter>

    <!-- outbound configuration -->
    <outbound-resourceadapter>
        <connection-definition>
            <managedconnectionfactory-
class>oracle.j2ee.ra.jms.generic.ManagedXAQueueConnectionFactoryImpl</managedconnectionfact
ory-class>
            <connectionfactory-interface>javax.jms.XAQueueConnectionFactory</connectionfactory-
interface>
            <connectionfactory-impl-
class>oracle.j2ee.ra.jms.generic.XAQueueConnectionFactoryWrapper</connectionfactory-impl-
class>
            <connection-interface>javax.jms.XAConnection</connection-interface>
            <connection-impl-class>oracle.j2ee.ra.jms.generic.ConnectionWrapper</connection-impl-
class>
            <config-property>
                <config-property-name>jndiLocation</config-property-name>
                <config-property-type>java.lang.String</config-property-type>
                <config-property-value> SSIAD_MDB_QCF</config-property-value>
            </config-property>
        </connection-definition>
    </outbound-resourceadapter>

```


6. Modify ejb-jar.xml

Specify the Queue the SSIAD MDB is listening to in the <activation-config> tag and Resource references as shown below:

- NOTIFY_MDB_QCF is the XA Queue Connection Factory.
- NOTIFY_DEST_QUEUE is the Queue on which MDB will listen.
- NOTIFY_MDB_DLQ is the Dead Letter Queue

```
<activation-config>
  <activation-config-property>
    <activation-config-property-name>DestinationType</activation-config-property-name>
    <activation-config-property-value>javax.jms.Queue</activation-config-property-value>
  </activation-config-property>
  <activation-config-property>
    <activation-config-property-name>DestinationName</activation-config-property-name>
    <activation-config-property-value>NOTIFY_DEST_QUEUE</activation-config-property-
value>
  </activation-config-property>
  <activation-config-property>
    <activation-config-property-name>ConnectionFactoryJndiName</activation-config-
property-name>
    <activation-config-property-value> SSIAD_MDB_QCF</activation-config-property-value>
  </activation-config-property>
</activation-config>

<resource-ref>
  <description>Connection Factory for Response / DLQ</description>
  <res-ref-name> SSIAD_MDB_QCF</res-ref-name>
  <res-type>javax.jms.XAQueueConnectionFactory</res-type>
  <res-auth>Container</res-auth>
  <res-sharing-scope>Shareable</res-sharing-scope>
</resource-ref>

<resource-env-ref>
  <description>Queue to send reply to</description>
  <resource-env-ref-name>NOTIFY_DEST_QUEUE</resource-env-ref-name>
  <resource-env-ref-type>javax.jms.Queue</resource-env-ref-type>
</resource-env-ref>
<resource-env-ref>
  <description>MDB Dead Letter Queue</description>
  <resource-env-ref-name>NOTIFY_MDB_DLQ</resource-env-ref-name>
  <resource-env-ref-type>javax.jms.Queue</resource-env-ref-type>
</resource-env-ref>
</message-driven>
</enterprise-beans>
```



FLEXCUBE UBS Outbound Application Adapter Installation Document
[May] [2019]
Version 14.3.0.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
www.oracle.com/financialservices/

Copyright © [2008], [2019], Oracle and/or its affiliates. All rights reserved.

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

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

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

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

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

This software or hardware and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.