

FLEXCUBE UBS Outbound  
Application Adapter Installation  
Document

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FLEXCUBE KERNEL

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## Document Control

Author: Rashmi Sharma	Group: BPD	
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## 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.UM8.0.0.0.0.0.0Lot1.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.xml
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.

OC4J: home

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

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7. The following screen is displayed.

- ✓ Enter application name: SSIAD\_MDB\_Bean.
- ✓ Click **Next**.



Deploy: Application Attributes

Cancel Back Step 2 of 3 Next

Archive Type **J2EE Application (EAR file)**  
 Archive Location **D:\KERNEL\_SSIAD\_OCAJ\SSIAD\_MDB\build\SSIAD\_MDB\_Bean.ear**  
 Deployment Plan **Creating a new plan**

\* Application Name   
 Parent Application   
 Bind Web Module to Site

Cancel Back Step 2 of 3 Next

Help | Logout

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8. The following screen is displayed.

- ✓ Click "Map Environment References"



Deploy: Deployment Settings

Cancel Back Step 3 of 3 Deploy

Archive Type **J2EE Application (EAR file)**  
 Archive Location **D:\KERNEL\_SSIAD\_OCAJ\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

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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]***

<b>Resource Reference</b>	<b>JNDI Location</b>
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)** Application Name **SSIAD\_MDB\_Bean**  
 Archive Location **D:\KERNEL\_SSIAD\_OC4J\SSIAD\_MDB\build\SSIAD\_MDB\_Bean.ear** Parent Application **default**  
 Deployment Plan **Creating a new plan** 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		
		Module	Enterprise Bean	Map to URL
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

10. The following screen is displayed.

- ✓ Go to **"Configure Class Loading"** Task.



**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](#)

11. The following screen is displayed.

- ✓ Navigate to the next page





### Deployment Settings: Configure Class Loading

Cancel OK

Archive Type **J2EE Application (EAR file)** Application Name **SSIAD\_MDB\_Bean**  
 Archive Location **D:\KERNEL\_SSIAD\_OC4J\SSIAD\_MDB\build\SSIAD\_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.

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

#### 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.	
<input type="button" value="Add Another Row"/>	

#### 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](#)

12. The following screen is displayed.

- ✓ **Uncheck oracle.xml**
- ✓ **Ok**



### Deployment Settings: Configure Class Loading

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

#### 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.

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

#### 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.	<input type="button" value="Delete"/>
<input type="button" value="Add Another Row"/>	

#### 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.	<input type="checkbox"/>	<input type="checkbox"/>	

Cancel OK

Help | Logout

13. The following screen is displayed.

- ✓ Click **Deploy**



**Deploy: Deployment Settings**

**Step 3 of 3**

Archive Type **J2EE Application (EAR file)**  
 Archive Location **D:\KERNEL\_SSIAD\_OC4\SSIID\_MDB\build\SSIID\_MDB\_Bean.ear**  
 Deployment Plan **Creating a new plan**  
 Application Name **SSIID\_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.

**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.

**Step 3 of 3**

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

14. The following screen is displayed.

- ✓ Click **Return**

 Confirmation

[Return](#)

The Application "SSIAD\_MDB\_Bean" has been successfully deployed.

**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](#)

15. The following screen is displayed.

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

View

|

[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"/>	<a href="#">ascontrol</a>	↑	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"/>	<a href="#">GW_HTTP_Servlet</a>	↑	Jun 27, 2007 1:13:07 PM IST	0	0.00	0	
<input type="radio"/>	<a href="#">GW_MDB_Bean</a>	↑	Jun 27, 2007 1:13:16 PM IST	0	0.00	0	
<input type="radio"/>	<a href="#">SSIAD_Client_Servlet</a>	↑	Jun 27, 2007 1:13:17 PM IST	0	0.00	0	
<input type="radio"/>	<a href="#">SSIAD_EJB_ACK_Bean</a>	↑	Jun 27, 2007 3:56:43 PM IST	0	0.00	0	
<input type="radio"/>	<a href="#">SSIAD_EJB_Bean</a>	↑	Jun 27, 2007 2:54:11 PM IST	0	0.00	0	
<input type="radio"/>	<a href="#">SSIAD_MDB_Bean</a>	↑	Jun 28, 2007 11:20:48 AM IST	0	0.00	0	
<input type="radio"/>	<a href="#">bc4j</a>	↑	Jun 27, 2007 1:13:06 PM IST	0	0.00	0	

|

## Appendix

### 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>WebSphereMGRP</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>WebSphereMGRP</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>

<!-- 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>

```

## 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>
```



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Oracle Corporation  
World Headquarters  
500 Oracle Parkway  
Redwood Shores, CA 94065  
U.S.A.

Worldwide Inquiries:  
Phone: +1.650.506.7000  
Fax: +1.650.506.7200  
[www.oracle.com/financial\\_services/](http://www.oracle.com/financial_services/)

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