# FLEXCUBE UBS Outbound Application Adapter Installation Document

Version 12.87.06.0.0

FLEXCUBE KERNEL

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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 tah will be suffixed with SSIAD_OB_ENVELOPE_FILE_PREFIX.
    eg. SIAD_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_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.xsl"/>
                <!-- 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**

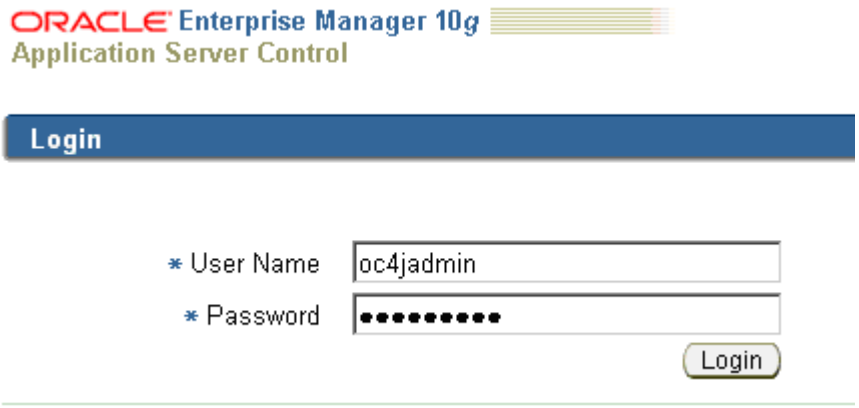
✓ Open an internet browser and type the OC4J Admin Console URL Address of the server.

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**.




4. **Deploy Resource Adapter**

   [**Refer:** OC4J_RESOURCE_ADAPTER_DEPLOYMENT]

5. **Deploying SSIAD_MDB_Bean.ear**

   - ✓ Click on Applications -> Deploy.

ORACLE Enterprise Manager 10g
Application Server Control

Cluster Topology > Application Server: oracle.DDTD0270.i-flex.com >

## OC4J: home

Page Refreshed Jun 2

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

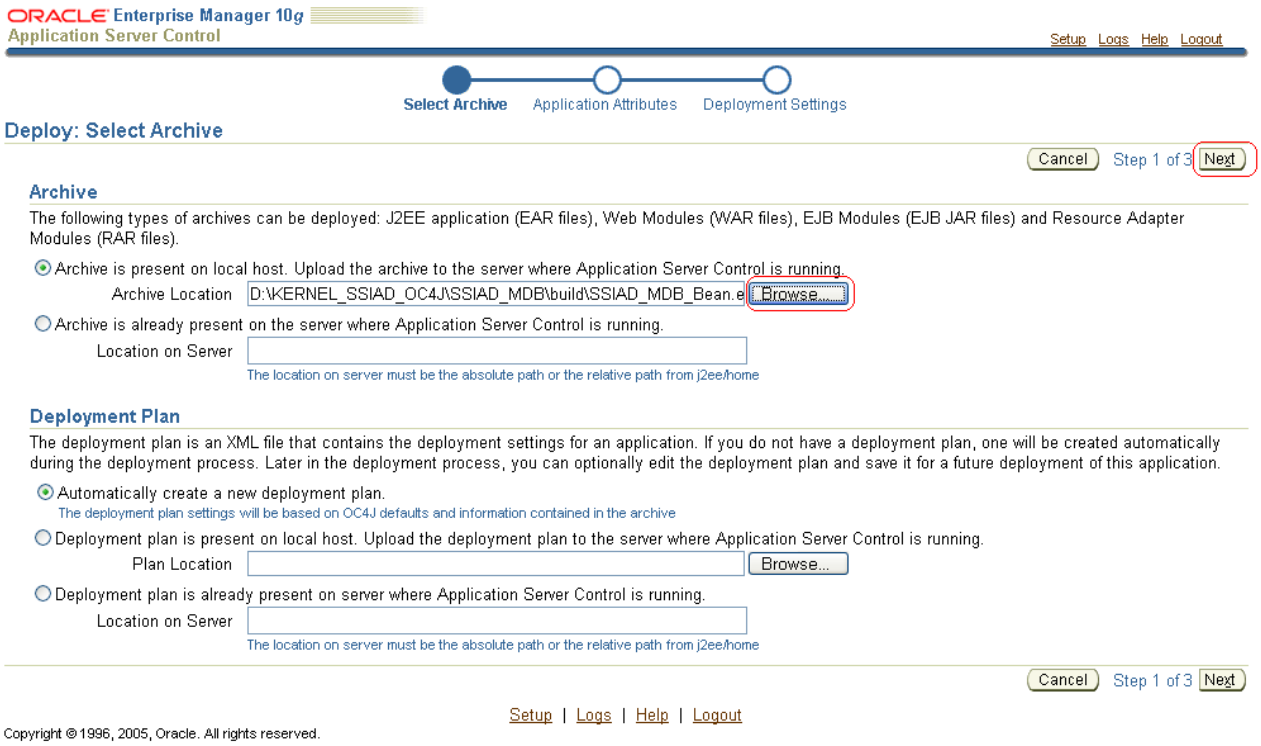
Start | Stop | Restart | Undeploy | Redeploy | Deploy

Expand All | Collapse All

| Select | Name | Status | Start Time | Active Requests | Request Processing Time (seconds) | Active EJB Methods | Application Defined MBeans |
|---|---|---|---|---|---|---|---|
| | All Applications | | | | | | |
| | ascontrol | | Jun 27, 2007 1:13:06 PM IST | 1 | 0.63 | 0 | |
| | default | | Jun 27, 2007 1:13:06 PM IST | 0 | 0.00 | 0 | |
| | GW_EJB_Bean | | Jun 27, 2007 1:13:07 PM IST | 0 | 0.00 | 0 | |
| | GW_HTTP_Servlet | | Jun 27, 2007 1:13:07 PM IST | 0 | 0.00 | 0 | |
| | GW_MDB_Bean | | Jun 27, 2007 1:13:16 PM IST | 0 | 0.00 | 0 | |
| | SSIAD_Client_Servlet | | Jun 27, 2007 1:13:17 PM IST | 0 | 0.00 | 0 | |
| | bc4j | | Jun 27, 2007 1:13:06 PM IST | 0 | 0.00 | 0 | |

Home | Applications | Web Services | Performance | Administration

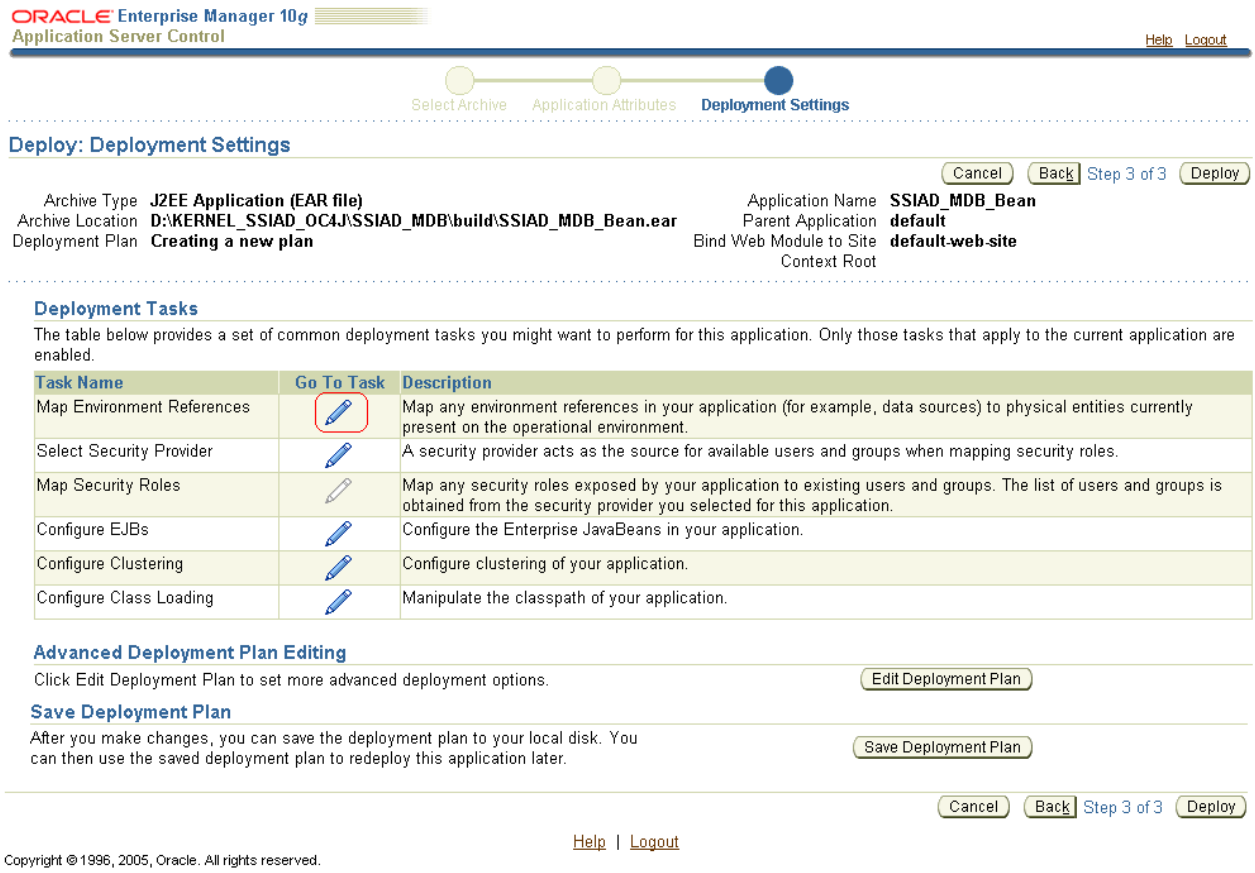
6. The following screen is displayed.
   - ✓ Click **Browse**
   - ✓ Specify the local path of the enterprise archive file:
     <KERNEL_INSTALL_DIR>/SSIAD_MDB/build/**SSIAD_MDB_Bean.ear**
   - ✓ Click **Next**.




7. The following screen is displayed.
   - ✓ Enter application name: SSIAD_MDB_Bean.
   - ✓ Click **Next**.

8. The following screen is displayed.

   ✓ Click**" Map Environment References"**




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**

ORACLE Enterprise Manager 10g
Application Server Control

Help Logout

Select Archive — Application Attributes — Deployment Settings

## 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 | 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 | NOTIFY_DEST_QUEUE |
| NOTIFY_MDB_DLQ | MDB Dead Letter Queue | javax.jms.Queue | SSIAD_MDB_Bean.jar | SSI_MDB Adapter | 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

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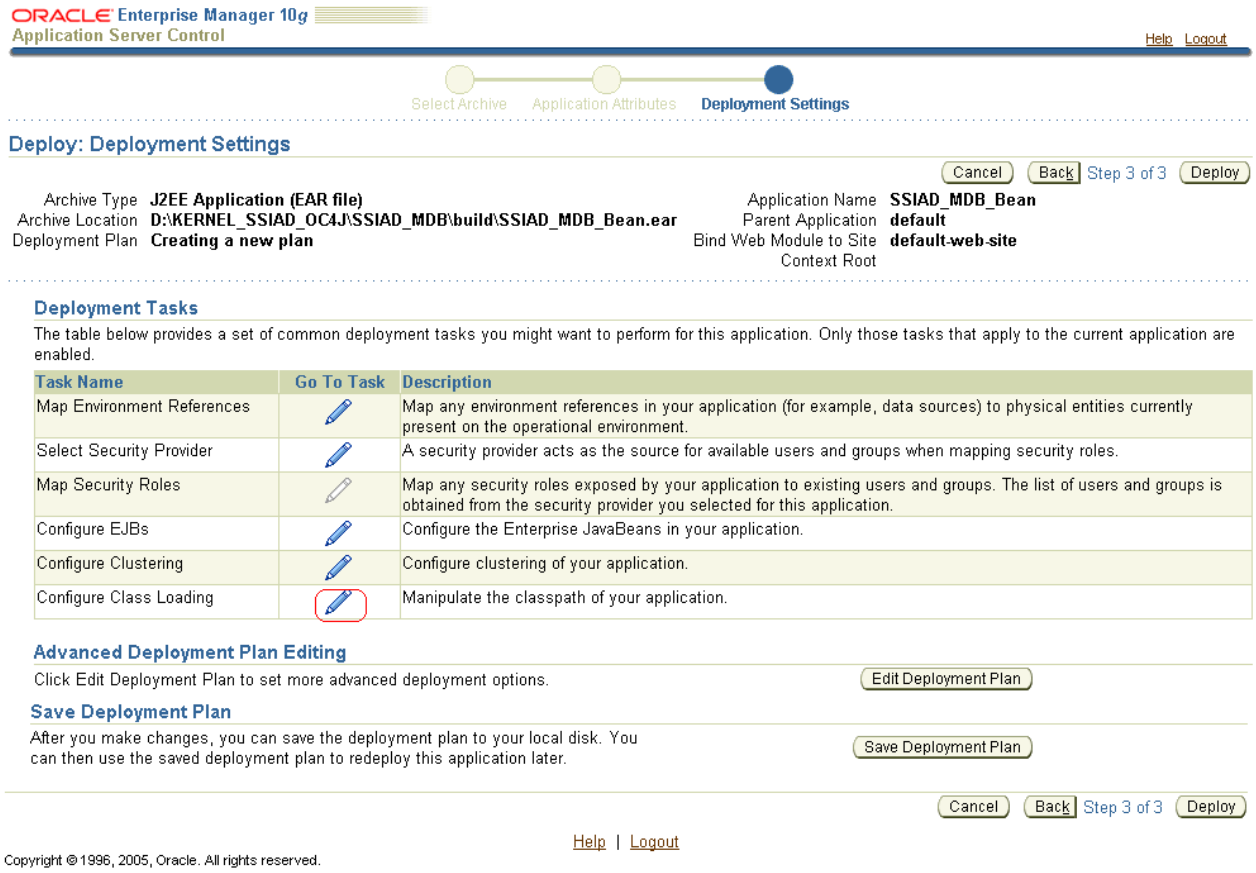
10. The following screen is displayed.

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




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 | **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.

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 | | | | ☐ |
| adf.oracle.domain | 10.1.3 | | | ✓ | ☑ |
| global.libraries | 1.0 | | | ✓ | ☑ |
| global.tag.libraries | 1.0 | | | ✓ | ☑ |
| global.wsm.libraries | 1.0 | | | | ☐ |
| oracle.cache | 10.1.3 | | | ✓ | ☑ |
| oracle.dms | 3.0 | | | ✓ | ☑ |
| oracle.expression-evaluator | 10.1.3 | | | | ☐ |
| oracle.gdk | 10.1.0_2 | | | ✓ | ☑ |
| oracle.http.client | 10.1.3 | | | | ☐ |

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. | |

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

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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 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.

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 | | | ✓ | ☑ |
| oracle.jwsdl | 10.1.3 | | | ✓ | ☑ |
| oracle.sqlj | 10.1.3 | | | ✓ | ☑ |
| oracle.toplink | 10.1.3 | | | ✓ | ☑ |
| oracle.ws.client | 10.1.3 | | | ✓ | ☑ |
| oracle.ws.core | 10.1.3 | | | | ☐ |
| oracle.ws.reliability | 10.1.3 | | | | ☐ |
| oracle.ws.security | 10.1.3 | | | | ☐ |
| oracle.wsm | 10.1.3 | | | | ☐ |
| oracle.xml | 10.1.0_2 | | | ✓ | ☐ |

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. | |

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

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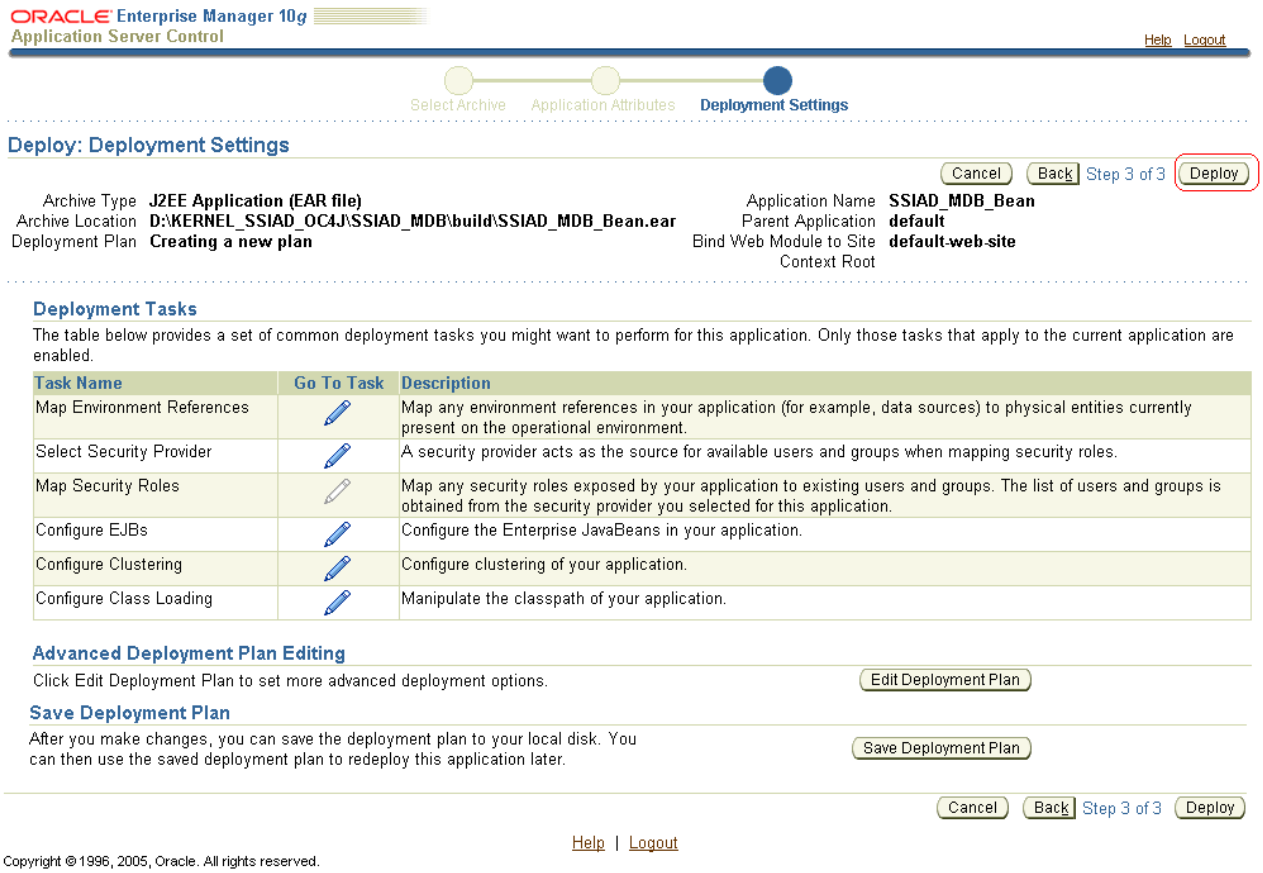
13. The following screen is displayed.

    ✓ Click **Deploy**




14. The following screen is displayed.

    ✓ Click **Return**

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 |
|---|---|---|---|---|---|---|---|
| | All Applications | | | | | | |
| | ascontrol | | Jun 27, 2007 1:13:06 PM IST | 1 | 0.00 | 0 | |
| | default | | Jun 27, 2007 1:13:06 PM IST | 0 | 0.00 | 0 | |
| | GW_EJB_Bean | | Jun 27, 2007 1:13:07 PM IST | 0 | 0.00 | 0 | |
| | GW_HTTP_Servlet | | Jun 27, 2007 1:13:07 PM IST | 0 | 0.00 | 0 | |
| | GW_MDB_Bean | | Jun 27, 2007 1:13:16 PM IST | 0 | 0.00 | 0 | |
| | SSIAD_Client_Servlet | | Jun 27, 2007 1:13:17 PM IST | 0 | 0.00 | 0 | |
| | SSIAD_EJB_ACK_Bean | | Jun 27, 2007 3:56:43 PM IST | 0 | 0.00 | 0 | |
| | SSIAD_EJB_Bean | | Jun 27, 2007 2:54:11 PM IST | 0 | 0.00 | 0 | |
| | SSIAD_MDB_Bean | | Jun 28, 2007 11:20:48 AM IST | 0 | 0.00 | 0 | |
| | 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

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2

# 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>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>

      <!-- 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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