

FLEXCUBE UBS Oracle GL Adapter MDB Deployment  
Installation

Oracle FLEXCUBE Universal Banking

Release 12.2.0.0.0

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## Installation Steps

### 1.1 Prerequisite

- ✓ Ensure that the basic KERNEL Environment Setup is done.

[Please refer [ADOGL\\_Installation.doc](#).]

### 1.2 Steps

Follow the steps given below only if the Oracle10g Application Server is to be configured with *Oracle10gAS JMS*.

Refer [OC4J\\_ADOGL\\_OracleASJMS\\_Queue\\_Installation.doc](#) to create the OC4J JMS Destinations and Connection Factories.

#### A. Modify ejb-jar.xml

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

Please **add** the following tag in the `<message-driven>` tag:

```
<message-driven-destination>
    <destination-type>javax.jms.Queue</destination-type>
</message-driven-destination>
```

**Save** the file in the same folder after modification.

Please ensure the file has a similar section as the one shown below in the `<message-driven>` tag:

- ADOGL\_DS is the name of the database instance
- ADOGL\_MDBQCF is the OGL Queue connection Factory.
- NOTIFY\_DEST\_QUEUE\_DLQ is the OGL Dead Letter Queue.

```

<resource-ref>
    <res-ref-name>ADOGL_DS</res-ref-name>
    <res-type>javax.sql.XADataSource</res-type>
    <res-auth>Container</res-auth>
</resource-ref>
<resource-ref>
    <description>Queue connection factory for MDB Gateway</description>
    <res-ref-name>ADOGL_MDBQCF</res-ref-name>
    <res-type>javax.jms.XAQueueConnectionFactory</res-type>
    <res-auth>Container</res-auth>
</resource-ref>
<resource-env-ref>
    <description>MDB Dead Letter Queue</description>
    <resource-env-ref-name>NOTIFY_DEST_QUEUE_DLQ</resource-env-ref-name>
    <resource-env-ref-type>javax.jms.Queue</resource-env-ref-type>
</resource-env-ref>

```

**[NOTE: Please ensure that the name of the database instance is case sensitive and should always be capital letters.]**

## B. Modify orion-ejb-jar.xml

Open the file

<KERNEL\_INSTALL\_DIR>\ADOGL\_MDB\config\OC4J\orion-ejb-jar.xml in any editor for editing.

Please ensure the following tag in the <enterprise-beans> tag:

```

<message-driven-deployment
    name="ADOGL_MDB_Bean"

```

```
connection-factory-location="ADOGL_MDBQCF"
destination-location="NOTIFY_DEST_QUEUE"
listener-threads="50"
subscription-name="ADOGLMDBSUB"
transaction-timeout="172800"
/>
```

Save the file in the same folder after modification.

### C. Configure Service parameters

Open <KERNEL\_INSTALL\_DIR>\ADOGL\_MDB\config\ADOGL\_MDB\_Prop.properties file in an editor and give appropriate values for the properties shown below.

1. ADOGL\_MDB\_JMS\_QCF: This property specifies the location of the OGL Notify MDB Queue connection factory.

E.g. ADOGL\_MDBQCF

2. ADOGL\_MDB\_JMS\_QUEUE\_NAME: This property specifies the location of the OGL Destination Queue.

E.g.: NOTIFY\_DEST\_QUEUE

3. ADOGL\_MDB\_JMS\_DLQ\_CF: This property specifies the location of the OGL Notify Dead Letter MDB Queue connection factory.

E.g.: ADOGL\_MDBQCF

4. ADOGL\_MDB\_JMS\_DLQ: This property specifies the location of the OGL Destination Dead Letter Queue connection factory.

E.g.: NOTIFY\_DEST\_QUEUE\_DLQ

5. MAX\_CLOB\_LEN: This property specifies the length till which oracle considers the incoming text as string. For Oracle 10g R2 Database, it should be 32512.

e.g. MAX\_CLOB\_LEN=32512

6. DB\_TIMEOUT: This property is the timeout in SECONDS for which the FCUBS EJB Gateway will wait for PL/SQL to finish its processing.

If database does not return within this timeout, the call to PL/SQL will be assumed to be failed.

E.g.: 200

7. MSG\_SCHEMA\_CON\_POOLNAME: This property specifies the JNDI name of the data source to which the first connection happens.

**[NOTE: The value of this property has to be one of the datasources maintained as <resource-ref><resource-ref> in ejb-jar.xml.]**

**[NOTE: This name must be same as the database instance name and must be in upper case.]**

E.g.: ADOGL\_DS

8. LOGGER\_PATH: This property is the absolute path to the adogl\_mdb\_logger.cfg file along with file name.

**[NOTE: File separator must be "/".]**

**[NOTE: The OGL interfaces provided at the site should be accessible from the OGL Adapter MDB. To ensure this; please specify the following property values carefully.]**

9. ADOGL\_EJB\_JNDI\_NAME: The JNDI location of the OGL Bean. The JNDI name of the Bean can be obtained from the in the <session> tag of ejb-jar.xml located in the OGL Enterprise Archive (EAR) file

E.g.: OGL\_EJB\_FACADE\_Bean

*(In ejb-jar.xml)*

```
<ejb-name >OGL_EJB_FACADE_Bean</ejb-name >
```

10. ADOGL\_EJB\_CALL\_TYPE: The type of call could be either REMOTE or LOCAL depending on whether the OGL EJB Façade bean has to be called remotely or locally.

E.g.: REMOTE

11. ADOGL\_EJB\_CTX\_FACTORY: This property specifies the Initial Context factory to lookup remote OGL EJB provided.

For Oracle10g AS, the value is:

```
com.evermind.server.rmi.RMIInitialContextFactory
```

12. ADOGL\_EJB\_SERVER\_URL: This property specifies the provider URL for the Initial Context. For Oracle10g AS, the value is:

```
ormi://10.80.4.116:23791/OGL_EJB_FACADE_Bean
```

**Note:**

- ✓ OGL\_EJB\_FACADE\_Bean is the Application name with which the bean is deployed.
- ✓ 23791 is the default port.
- ✓ 10.80.4.116 is the host machine IP Address.

13. ADOGL\_EJB\_SECURITY\_PRINCIPAL: This property is the username for the Oracle10g AS remote EJB access. Specify the administrator user name of Oracle 10g AS provided during Oracle 10g AS installation.

E.g.: oc4jadmin

14. ADOGL\_EJB\_SECURITY\_CREDENTIALS: This property is the password for the Oracle10g AS remote EJB access. It has to be decrypted and stored here for security reasons. The password decryption can be done by using a batch file "ChangePassword.bat".

The ADOGL\_MDB\_Prop.properties will look as given below.

ADOGL\_EJB\_JNDI\_NAME=AQBridgeFacade

ADOGL\_EJB\_CALL\_TYPE=REMOTE

ADOGL\_EJB\_CTX\_FACTORY=com.evermind.server.rmi.RMIInitialContextFactory

ADOGL\_EJB\_SERVER\_URL=ormi://10.80.4.116:23791/AQBridgeFacade

ADOGL\_EJB\_SECURITY\_PRINCIPAL=

ADOGL\_EJB\_SECURITY\_CREDENTIALS=

ADOGL\_MDB\_JMS\_QCF=ADOGL\_MDBQCF

ADOGL\_MDB\_JMS\_QUEUE\_NAME=NOTIFY\_DEST\_QUEUE

ADOGL\_MDB\_JMS\_DLQ\_CF=ADOGL\_MDBQCF

ADOGL\_MDB\_JMS\_DLQ=NOTIFY\_DEST\_QUEUE\_DLQ

MAX\_CLOB\_LEN=32512

DB\_TIMEOUT=200

MSG\_SCHEMA\_CON\_POOLNAME=FLEXTTEST.WORLD



```
LOGGER_PATH=D:/Kernel7.2/ADOGL_MDB/config/adogl_mdb_logger.cfg
```

#### D. Configure logger parameters

Open <KERNEL\_INSTALL\_DIR>\ADOGL\_MDB\config\adogl\_mdb\_logger.cfg file in an editor and change the value of the property "AD.LOGGER.FPATH" to

<KERNEL\_INSTALL\_DIR>/ADOGL\_MDB/log/.

E.g.:- If the value of your <KERNEL\_INSTALL\_DIR> is D:\Kernel7.2, then the entry for this property should be

AD.LOGGER.FPATH= D:/Kernel7.2/ADOGL\_MDB/log/

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

#### E. 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>\ADOGL\_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>/ADOGL\_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.]*

#### F. Change the Password (for OGL Bean access from the Adapter only)

- (i) cd <KERNEL\_INSTALL\_DIR>\ADOGL\_MDB\setup
- (ii) Type "**ChangePassword**" at the command prompt.
- (iii) Enter the Properties file name as ADOGL\_MDB\_Prop.properties
- (iv) Enter the User ID Property Name : ADOGL\_EJB\_SECURITY\_PRINCIPAL
- (v) Enter the User ID : The administrator user Id provided during the Oracle 10g AS installation
- (vi) Enter the password property name: ADOGL\_EJB\_SECURITY\_CREDENTIALS
- (vii) Enter the password: The administrator password provided during Oracle 10g AS installation.

## G. Deploy the 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. For each “res-ref-name” in ejb-jar.xml create an XA DataSource in Oracle 10g Application Server

[Refer: [OC4J ADOGL DataSource Creation.doc](#)]

### 5. Create OracleASJMS Queues and Queue Connection Factories in Oracle 10g Application Server

[Refer: [OC4J ADOGL OracleASJMS Queue Installation.doc](#)]

## 6. Deploy ADOGL MDB Bean.ear

✓ Click on Applications -> Deploy.

Page refreshed May 24, 2006 8:25:16 PM GMT

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

Deploy

Start Stop Undeploy Redeploy

Expand All Collapse All

Select Name	Status	Start Time	Active Requests	Request Processing Time (seconds)	Active EJB Methods	Application Defined MBeans
▼ default	↑	May 24, 2006 8:06:19 PM GMT+05:30	0	0.00	0	2
○ GW_NOTIFY_TIMER_Bean	↑	May 24, 2006 8:06:20 PM GMT+05:30	0	0.00	Unavailable	0
○ GW_NOTIFY_MDB_Bean	↑	May 24, 2006 8:24:46 PM GMT+05:30	0	0.00	Unavailable	0
○ ADOGL_EJB_FACADE_Bean	↑	May 24, 2006 8:16:51 PM GMT+05:30	0	0.00	Unavailable	0
○ GW_MDB_Bean	↑	May 24, 2006 8:09:14 PM GMT+05:30	0	0.00	Unavailable	0
○ ascontrol	↑	May 24, 2006 8:06:19 PM GMT+05:30	1	0.05	0	1

Home Applications Web Services Performance Administration

Setup | Logs | Help | Logout

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**7. The following screen is displayed.**

- ✓ Click **Browse**
- ✓ Specify the local path of the enterprise archive file:

**<KERNEL\_INSTALL\_DIR>/ADOGL MDB/build/ADOGL 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  Browse...

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  Browse...

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

**8. The following screen is displayed.**

- ✓ **Click Next.**





Deploy: Application Attributes

Cancel Back Step 2 of 3 Next

Archive Type J2EE Application (EAR file)  
Archive Location D:\Kernel7.2Lot1\ADOGL\_MDB\build\ADOGL\_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

Setup | Logs | Help | Logout

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**9. 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) Application Name ADOGL\_MDB\_Bean  
Archive Location D:\Kernel7.2Lot1\ADOGL\_MDB\build\ADOGL\_MDB\_Bean.ear Parent Application default  
Deployment Plan Creating a new plan 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	Go To Task	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

**10. 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 ADOGL\_MDB\_Prop.properties file]*

<b>Resource Reference</b>	<b>JNDI Location</b>
<b>ADOGL_MDBQCF</b>	<b>ADOGL_MDBQCF</b>
<b>ADOGL_DS</b>	<b>ADOGL_DS</b>
<b>NOTIFY_DEST_QUEUE_DLQ</b>	<b>NOTIFY_DEST_QUEUE_DLQ</b>

- ✓ **Click OK**

## Deployment Settings: Map Environment References

Cancel OK

Archive Type **J2EE Application (EAR file)** Application Name **ADOGL\_MDB\_Bean**  
 Archive Location **D:\Kernel7.2\Lot1\ADOGL\_MDB\build\ADOGL\_MDB\_Bean.ear** Parent Application **default**  
 Deployment Plan **Creating a new plan** Bind Web Module to Site **default-web-site**

### Map Resource References

The table below lists all resource manager connection factory references found in your application. Resource references need to be associated with the JNDI names of 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	
ADOGL_MDBQCF	Queue connection factory for MDB Gateway	javax.jms.XAQueueConnectionFactory	ADOGL_MDB_Bean.jar	ADOGL_MDB_Bean	<input type="text" value="ADOGL_MDBQCF"/>
ADOGL_DS		javax.sql.XADataSource	ADOGL_MDB_Bean.jar	ADOGL_MDB_Bean	<input type="text" value="ADOGL_DS"/>

### 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_DLQ	MDB Dead Letter Queue	javax.jms.Queue	ADOGL_MDB_Bean.jar	ADOGL_MDB_Bean	<input type="text" value="NOTIFY_DEST_QUEUE_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.

## 11. The following screen is displayed.

- ✓ Click Deploy



**Information**  
Deployment plan has been updated successfully.

**Deploy: Deployment Settings**

[Cancel](#) [Back](#) [Step 3 of 3](#) [Deploy](#)

Archive Type **J2EE Application (EAR file)**  
Archive Location **D:\Kernel7.2Lot1\ADOGL\_MDB\build\ADOGL\_MDB\_Bean.ear**  
Deployment Plan **Creating a new plan**  
Application Name **ADOGL\_MDB\_Bean**  
Parent Application **default**  
Bind Web Module to Site **default-web-site**

**Deployment Tasks**

The table below lists common tasks that you might want to do before deploying your application.

Task Name	Go To Task	Description
Map Environment References		Map any environment references in your application (e.g. 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/groups. Users and groups will be obtained from your choice of security provider.
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**

You can optionally use the Edit Deployment Plan button to set more advanced deployment options which the deployment tasks above do not cover.

[Edit Deployment Plan](#)

**12. The following screen is displayed.**

**Please ensure the ADOGL\_MDB\_Bean is successfully deployed.**

✓ **Click Return**

 Confirmation

[Return](#)

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

**Progress Messages**

```
[May 24, 2006 8:31:27 PM] Application Deployer for ADOGL_MDB_Bean STARTS.  
[May 24, 2006 8:31:27 PM] Copy the archive to D:\Oracle10gAS\j2ee\home\applications\ADOGL_MDB_Bean.ear  
[May 24, 2006 8:31:27 PM] Initialize D:\Oracle10gAS\j2ee\home\applications\ADOGL_MDB_Bean.ear begins...  
[May 24, 2006 8:31:27 PM] Unpacking ADOGL_MDB_Bean.ear  
[May 24, 2006 8:31:27 PM] Done unpacking ADOGL_MDB_Bean.ear  
[May 24, 2006 8:31:27 PM] Initialize D:\Oracle10gAS\j2ee\home\applications\ADOGL_MDB_Bean.ear ends...  
[May 24, 2006 8:31:27 PM] Starting application : ADOGL_MDB_Bean  
[May 24, 2006 8:31:27 PM] Initializing ClassLoader(s)  
[May 24, 2006 8:31:27 PM] Initializing EJB container  
[May 24, 2006 8:31:27 PM] Loading connector(s)  
[May 24, 2006 8:31:28 PM] Starting up resource adapters  
[May 24, 2006 8:31:28 PM] Processing EJB module: ADOGL_MDB_Bean.jar  
[May 24, 2006 8:31:28 PM] Compiling EJB generated code  
[May 24, 2006 8:31:28 PM] Initializing EJB sessions  
[May 24, 2006 8:31:28 PM] Committing ClassLoader(s)  
[May 24, 2006 8:31:28 PM] Started application : ADOGL_MDB_Bean  
[May 24, 2006 8:31:28 PM] Binding web application(s) to site default-web-site begins...  
[May 24, 2006 8:31:28 PM] Binding web application(s) to site default-web-site ends...  
[May 24, 2006 8:31:28 PM] Application Deployer for ADOGL_MDB_Bean COMPLETES. Operation time: 468 msec
```

[Return](#)

---

## Appendix

### 1.1 Configuring ADOGL 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, ensure the IBM WebSphere MQ Destinations, Connection Factories and their Bindings are created.

*[Note: The path of the .bindings files needs to be specified in orion-application.xml]*

Please refer to [WAS ADOGL WebSphereMQ Installation.doc Section 1.4](#) to create them.

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

<KERNEL\_INSTALL\_DIR>\ADOGL\_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>\ADOGL\_MDB\config)

## 1. Modify oc4j-connectors.xml

Specify all the Queues involved as given below:

```
<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_DEST_QUEUE_DLQ">
  <adminobject-class>oracle.j2ee.ra.jms.generic.AdminObjectQueueImpl</adminobject-class>
  <config-property name="jndiName" value="NOTIFY_DEST_QUEUE_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="ADOGL_MDBQCF" connector-name="WebSphereMQC">
  <connectionfactory-interface>javax.jms.XAQueueConnectionFactory</connectionfactory-interface>
  <config-property name="jndiLocation" value="ADOGL_MDBQCF"/>
</connector-factory>
```

## 3. Modify orion-application.xml

Define the Resource Provider to be used by the Notify 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:/Kernel7.2/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="ADOGL_MDB_Bean"
  resource-adapter="WebSphereMQC"
  listener-threads="100"
  subscription-name="ADOGL_MDB_Bean_Sub"
  transaction-timeout="172800">
  <!-- Resource Ref mappings -->
  <resource-ref-mapping name="ADOGL_DS" location="ADOGL_DS" />
```



```

<resource-ref-mapping name="ADOGL_MDBQCF" location="ADOGL_MDBQCF" />

<!-- Resource Ref Environment mappings -->

<resource-env-ref-mapping name="NOTIFY_DEST_QUEUE"
                           location="NOTIFY_DEST_QUEUE" />

<resource-env-ref-mapping name="NOTIFY_DEST_QUEUE_DLQ"
                           location="NOTIFY_DEST_QUEUE_DLQ" />

</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_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>

<outbound-resourceadapter>
  <connection-definition>
    <managedconnectionfactory-class>
      oracle.j2ee.ra.jms.generic.ManagedXAQueueConnectionFactoryImpl
    </managedconnectionfactory-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>ADOGI_MDBQCF</config-property-value>
    </config-property>
  </connection-definition>
```

## 6. Modify ejb-jar.xml

Specify the Queue the ADOGL MDB is listening to in the <activation-config> tag as shown below:

```
<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>ADOGL_MDBQCF</activation-config-property-value>
  </activation-config-property>
</activation-config>
```



FLEXCUBE UBS Oracle GL AdapterMDB Deployment Installation  
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