

FLEXCUBE UBS Oracle GL Adapter Oracle ASJMS Queues  
Creation Installation  
Oracle FLEXCUBE Universal Banking  
Release 12.1.0.0.0  
[October] [2015]



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## 2. OC4J JMS Installation Steps

### 1.1 Steps

#### A. 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.

## B. 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.

### C. 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

### D. Create the JMS Destinations and Connection Factories

1. The following screen is displayed.

- ✓ Click on **Administration**.

OC4J: home

Page Refreshed May 18, 2006 3:04:27 PM IST • View Data Manual Refr

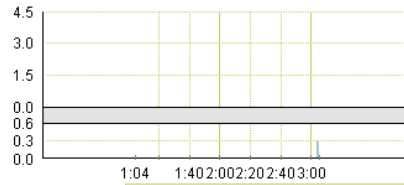
Home Applications Web Services Performance Administration

General



Status **Up**  
 Start Time **May 18, 2006 2:58:37 PM IST**  
 Oracle Home **D:\Oracle10gAS**  
 Host **CVRHP1257.i-flex.com**  
 Notifications **0**

Response and Load



2. The following screen is displayed.

- ✓ Go to the “JMS Providers” Task.

OC4J: home

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Home Applications Web Services Performance Administration

Expand All | Collapse All

| Task Name                                  | Go to Task | Description  |
|--|------------|--|
| Administration Tasks                       |            |  |
| Properties                                 |            |  |
| EJB Compiler Settings                      |            | Configure the EJB Compiler.  |
| J2EE Websites                              |            | Manage the J2EE websites in this OC4J instance.  |
| JSP Properties                             |            | Set JSP container properties.  |
| Logger Configuration                       |            | Set log levels for all Loggers.  |
| Task Manager and Thread Pool Configuration |            | Configure the task manager and thread pools of this OC4J instance.                       |
| Shared Libraries                           |            | Manage the shared libraries of this OC4J instance.                                       |
| Services                                   |            |  |
| JDBC Resources                             |            | Create/delete/view data sources and connection pools.                                    |
| JMS Providers                              |            | Configure the OracleAS JMS Provider.   |
| JNDI Browser                               |            | Configure and browse the JNDI bindings of this OC4J instance.                            |
| Transaction Manager (JTA)                  |            | Configure and monitor transaction management capabilities.                               |
| Security                                   |            |  |
| Security Providers                         |            | Configure security providers, create/delete/view users and roles.                        |
| Identity Management                        |            | Configure or change the Oracle Internet Directory associated with this OC4J instance.    |
| Trusted SAML Authorities                   |            | Configure trusted SAML assertion issuer names and keys to be used to secure webservices. |

3. The following screen is displayed.

- ✓ Click on "Destinations".


ORACLE Enterprise Manager 10g  
Application Server Control

OC4J: home >  
OracleAS JMS

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Home Destinations Connection Factories Administration

**General**

 Current Status **Running**   
Start Time **May 24, 2006 6:43:32 PM GMT+05:30**  
Host **cvrhp1454**  
Port **9127**

**Performance**

|                                    |      |
|------------------------------------|------|
| Active Connections                 | 6    |
| Messages Waiting for Read          | 0    |
| Messages Waiting for Commit        | 0    |
| Messages Enqueued per Second       | 0.00 |
| Messages Dequeued per Second       | 0.00 |
| Messages Paged In per Second       | 0.00 |
| Messages Paged Out per Second      | 0.00 |
| Messages Committed Since Startup   | 0    |
| Messages Rolled Back Since Startup | 0    |
| Messages Expired Since Startup     | 0    |

Home Destinations Connection Factories Administration

Setup | Logs | Help | Logout

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4. The following screen is displayed. Create a new Queue.

- ✓ Click on "Create New".



[OC4J: home](#) >

OracleAS JMS

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| Name ▲                         | Type  | JNDI Location                  | Persistence File  | Monitor Performance | Delete |
|--------------------------------|-------|--------------------------------|---|---------------------|--------|
| Demo Queue                     | Queue | jms/demoQueue                  |   |                     |        |
| Demo Topic                     | Topic | jms/demoTopic                  |   |                     |        |
| jms/events                     | Queue | jms/events                     | /D:/Oracle10gAS/j2ee/home/persistence/scheduler_events        |                     |        |
| jms/jobstore                   | Queue | jms/jobstore                   | /D:/Oracle10gAS/j2ee/home/persistence/scheduler_jobstore      |                     |        |
| jms/notifications              | Queue | jms/notifications              | /D:/Oracle10gAS/j2ee/home/persistence/scheduler_notifications |                     |        |
| jms/Oc4JmsExceptionQueue       | Queue | jms/Oc4JmsExceptionQueue       | /D:/Oracle10gAS/j2ee/home/persistence/Oc4JmsExceptionQueue    |                     |        |
| jms/OracleSyndicateQueue       | Queue | jms/OracleSyndicateQueue       |   |                     |        |
| jms/OracleUddiReplicationQueue | Queue | jms/OracleUddiReplicationQueue |   |                     |        |
| jms/RAExceptionQueue           | Queue | jms/RAExceptionQueue           |   |                     |        |
| OC4J Domain Queue              | Queue | jms/oc4jDomain                 | /D:/Oracle10gAS/j2ee/home/persistence/oc4jDomain              |                     |        |
| Sample Queue                   | Queue | jms/sampleQueue                |   |                     |        |
| Sample Topic                   | Topic | jms/sampleTopic                |   |                     |        |

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5. The following screen is displayed.

- ✓ Select the Destination Type as “Queue”.
- ✓ Enter the Destination Name as “NOTIFY\_DEST\_QUEUE”.
- ✓ Enter a description.
- ✓ Enter the JNDI Location as “NOTIFY\_DEST\_QUEUE”.
- ✓ Enter the Persistence File name as “NOTIFY\_DEST\_QUEUE”.
- ✓ Click OK.

[Cluster Topology](#) > [Application Server: oracle.cvrhp1456.i-flex.com](#) > [OC4J: home](#) > [OracleAS JMS](#) >

**Add Destination**

Destinations (queues or topics) can be added to the OracleAS JMS server.

Destination Type

\* Destination Name

Description

\* JNDI Location

Persistence File

Path name of the file that serves as the persistent message store for this destination. If a relative path is specified, it is assumed to be relative to the jms persistence directory.

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

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6. The following screen is displayed.

- ✓ NOTIFY\_DEST\_QUEUE has been created

**OracleAS JMS**

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| <a href="#">Home</a> <a href="#">Destinations</a> <a href="#">Connection Factories</a> <a href="#">Administration</a> |       |                                |  |                     |            |
|---|-------|--------------------------------|--|---------------------|------------|
|   |       |                                |  |                     | Create New |
| Name ▲  | Type  | JNDI Location                  | Persistence File   | Monitor Performance | Delete     |
| Demo Queue  | Queue | jms/demoQueue                  |  |                     |            |
| Demo Topic  | Topic | jms/demoTopic                  |  |                     |            |
| jms/events  | Queue | jms/events                     | /D:/Oracle10gAS/j2ee/home/persistence/home_default_group_1/scheduler_events        |                     |            |
| jms/jobstore  | Queue | jms/jobstore                   | /D:/Oracle10gAS/j2ee/home/persistence/home_default_group_1/scheduler_jobstore      |                     |            |
| jms/notifications   | Queue | jms/notifications              | /D:/Oracle10gAS/j2ee/home/persistence/home_default_group_1/scheduler_notifications |                     |            |
| jms/Oc4jJmsExceptionQueue   | Queue | jms/Oc4jJmsExceptionQueue      | /D:/Oracle10gAS/j2ee/home/persistence/home_default_group_1/Oc4jJmsExceptionQueue   |                     |            |
| jms/OracleSyndicateQueue  | Queue | jms/OracleSyndicateQueue       |  |                     |            |
| jms/OracleUddiReplicationQueue  | Queue | jms/OracleUddiReplicationQueue |  |                     |            |
| jms/RAExceptionQueue  | Queue | jms/RAExceptionQueue           |  |                     |            |
| <b>NOTIFY_DEST_QUEUE</b>  | Queue | NOTIFY_DEST_QUEUE              | /D:/Oracle10gAS/j2ee/home/persistence/home_default_group_1/NOTIFY_DEST_QUEUE       |                     |            |
| OC4J Domain Queue   | Queue | jms/oc4jDomain                 | /D:/Oracle10gAS/j2ee/home/persistence/home_default_group_1/oc4jDomain              |                     |            |

[Home](#)   [Destinations](#)   [Connection Factories](#)   [Administration](#)

## 7. Create Connection Factories:

- ✓ Click on Administration → JMS Providers → Connection Factories
- ✓ The following screen is displayed.
- ✓ Click on “Create New”.

ORACLE Enterprise Manager 10g  
Application Server Control

Setup Logs Help Logout

OC4J: home >  
OracleAS JMS

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Home Destinations **Connection Factories** Administration

| Domain  | JNDI Location                                   | Edit Properties | Delete |
|---------|---|-----------------|--------|
| queue   | jms/OracleSyndicateQueueConnectionFactory       |                 |        |
| queue   | jms/OracleUddiReplicationQueueConnectionFactory |                 |        |
| unified | jms/sampleConnectionFactory                     |                 |        |

Home Destinations **Connection Factories** Administration

Setup | Logs | Help | Logout

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## 8. We get the following screen.

Create an XA enabled Queue Connection factory (QCF).

- ✓ Select the Connection Factory Type as “Queue”.
- ✓ Enter the JNDI name as “ADOGL\_MDBQCF”.
- ✓ Check the “XA Enabled” check box
- ✓ Click OK.

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### Add Connection Factory

New connection factories can be added to the OracleAS JMS server.

|                         |  |
|-------------------------|--|
| Connection Factory Type | <input type="text" value="Queue"/>   |
| * JNDI Location         | <input type="text" value="ADOGI_MDBQCF"/>  |
| Host                    | <input type="text"/>   |
|                         | <small>If not specified, this connection factory will use the host that's configured for the OracleAS JMS server.</small>        |
| Port                    | <input type="text"/>   |
|                         | <small>If not specified, this connection factory will use the port that's configured for the OracleAS JMS server.</small>        |
| Client Identifier       | <input type="text"/>   |
|                         | <small>Used to identify connections created from this connection factory. Used only for durable subscriptions on topics.</small> |
|                         | <input checked="" type="checkbox"/> XA Enabled   |
|                         | <small>Turn this on if this connection factory will support distributed transactions</small>                                     |



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