

FLEXCUBE UBS Oracle GL Adapter Data Source Creation  
Installation

Oracle FLEXCUBE Universal Banking

Release 12.2.0.0.0

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## DataSource Creation Steps

### 1.1 Password Encryption

#### 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 %ORACLE_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**.

Login

\* User Name

\* Password

**The database password needs to be encrypted for security reasons. Given below are the steps to encrypt the DB password:**

- Navigate to the OC4J Home Page.
  - ✓ Click **“Administration”**.
  - ✓ Click the Go to Task icon  in the **Security Providers** row of the Administration Task table.

ORACLE Enterprise Manager 10g  
Application Server Control














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

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OC4J: home Page Refreshed Jul 11, 2006 5:01:50 PM IST

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.
Thread Pool Configuration		Configure the 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		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.
Instance Keystore		Configure the keystore and keys to be used for this OC4J instance.

2. The following screen is displayed.

- ✓ To configure roles and users for the default application, click **Instance Level Security**.

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface. The breadcrumb trail is "OC4J: home > Security Providers". The page title is "Security Providers". There are three main sections: "Instance Level Security" with a button labeled "Instance Level Security", "Application Server Control Security" with a button labeled "Application Server Control Security", and "Application Level Security" which contains a table of applications and their security providers. The page is dated "Page Refreshed Jul 11, 2006 5:06:02 PM IST".

3. The following screen is displayed.

- ✓ Click **Realms** to display the Realms page.

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface for "Instance Level Security". The breadcrumb trail is "OC4J: home > Security Providers > Instance Level Security". The page title is "Instance Level Security". The "Security Provider Type" is "File-Based Security Provider". The "Security Provider Attributes: File-Based Security Provider" section has two tabs: "General" and "Realms". The "Realms" tab is active, showing "Security Provider Type: File-Based Security Provider", "XML File Location: system-jazn-data.xml", and "Default Realm: jazn.com". A tip states: "TIP File location path is displayed relative to application deployment directory." The page is dated "Page Refreshed Jul 11, 2006 5:09:43 PM IST".

4. The following screen is displayed.

The Realms page includes a table containing the defined realms for the selected security provider. The table contains a column that shows the number of users and roles defined for each realm.

- ✓ To configure the users for a realm, click the number in the **Users** column.

ORACLE Enterprise Manager 10g  
Application Server Control Setup Logs Help Logout

OC4J: home > Security Providers >  
Instance Level Security Page Refreshed Jul 11, 2006 5:12:45 PM IST

Security Provider Type **File-Based Security Provider**

**Security Provider Attributes: File-Based Security Provider**

General **Realms**

Search  
Name

Results

Realm Name ▲	Roles	Users	Delete
jazn.com	3	5	

General **Realms**

Setup | Logs | Help | Logout

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5. The following screen is displayed.

- ✓ Click **Realms** to display the Realms page.

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Application Server Control Setup Logs Help Logout

OC4J: home > Security Providers > Instance Level Security >

**Confirmation**  
User fxgjqqa has been deleted.

**Users** Page Refreshed Jul 11, 2006 5:15:17 PM IST

Security Provider Type **File-Based Security Provider**  
Realm Name **jazn.com**

Search  
Name

Results

User Name ▲	Assigned Roles	Delete
anonymous		
JtaAdmin	oc4j-administrators*	
oc4jadmin	oc4j-administrators*	

✓ **TIP** Asterisk denotes a role which is directly granted to the user.

Setup | Logs | Help | Logout

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6. The following screen is displayed.

- ✓ Enter the actual Database user name.
- ✓ Enter the actual Database password.
- ✓ Confirm the DB password.
- ✓ Click “Move All” to move all the Available Roles to the Selected Roles box.
- ✓ Click OK.

ORACLE Enterprise Manager 10g  
Application Server Control

OC4J: home > Security Providers > Instance Level Security > Users >

**Add User**

Cancel OK

Realm Name **jazn.com**

Name

Password

Confirm Password

**Assign Roles**

**Available Roles**

**Selected Roles**

oc4j-administrators  
oc4j-app-administrators  
users

Move  
Move All  
Remove  
Remove All

Cancel OK

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7. The following screen displays the User names:

### Confirmation

User fxgiga has been created.

### Jsers

Page Refreshed Jul 11, 2006 5:32:05 PM IST

Security Provider Type **File-Based Security Provider**  
Realm Name **jazn.com**

#### Search

Name

#### Results

User Name 	Assigned Roles	Delete
<a href="#">anonymous</a>		
<a href="#">fcciga</a>	oc4j-administrators*, users*, oc4j-app-administrators*	
<a href="#">fxgiga</a>	oc4j-administrators*, users*, oc4j-app-administrators*	
<a href="#">JtaAdmin</a>	oc4j-administrators*	
<a href="#">oc4jadmin</a>	oc4j-administrators*	

 **TIP** Asterisk denotes a role which is directly granted to the user.

## 1.2 Connection Pool Creation

1. Navigate to the “**Administration screen**” as shown below.

The screenshot shows the Oracle Enterprise Manager 10g Application Server Control interface. At the top, it displays "ORACLE Enterprise Manager 10g" and "Application Server Control". The page title is "OC4J: home". A navigation bar includes "Home", "Applications", "Web Services", "Performance", and "Administration" (which is highlighted with a red box). The "Administration" section is active, showing a "General" tab with a status icon (a blue box with a green checkmark) and the following details: Status: Up, Start Time: May 24, 2006 6:36:02 PM GMT+05:30, Oracle Home: D:\Oracle10gAS, Host: cvrhp1454.i-flex.com, and Notifications: 0. There are "Stop" and "Restart" buttons. To the right is a "Response and Load" graph showing "Request Processing Time (seconds)" and "Requests per second" over time from 4:36 to 6:20 on May 24, 2006. The graph shows a flat line at 0.00 for both metrics. The bottom navigation bar includes "Home", "Applications", "Web Services", "Performance", and "Administration".

2. The following screen is displayed.

- ✓ Go to “**JDBC Resources**” Task.

<a href="#">Home</a>	<a href="#">Applications</a>	<a href="#">Web Services</a>	<a href="#">Performance</a>	<a href="#">Administration</a>
<a href="#">Expand All</a>   <a href="#">Collapse All</a>				
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		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.		
Connected Users		View the users connected to this OC4J instance.		
JMX				
System MBean Browser		Browse the system MBeans exposed by this OC4J instance.		
Notification Subscriptions		View/change subscriptions for notifications for all MBeans.		
http://localhost:8888/em/console/jas/oc4j/admin/jdbc				

**3. The following screen is displayed: Create a Connection Pool**

✓ **Click on "Create".**

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Application Server Control

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OC4J: home >

**Information**  
Connection Pool "ADOGL Connection Pool" was removed.

**JDBC Resources** Page Refreshed May 24, 2006 6:45:02 PM GMT+05:30

Application:

**Data Sources** Create

Name	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓		

**Connection Pools** Create

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource				

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4. **We get the following screen.**

- ✓ **Select “default” Application**
- ✓ **Click “Continue”.**

ORACLE Enterprise Manager 10g  
Application Server Control

OC4J: home > JDBC Resources >  
**Create Connection Pool - Application**

Select the application to which this new connection pool is to be added.

Application: default

ascontrol  
default

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5. **The following screen is displayed.**

- ✓ **Enter the connection Pool name: ADOGL Connection Pool**
- ✓ **Enter the Connection factory Class : oracle.jdbc.xa.client.OracleXADataSource**
- ✓ **Enter the URL : e.g.: jdbc:oracle:thin:@10.80.50.218:1522:FLEXTEST**
- ✓ **Enter the Username to** the database instance we need to connect
- ✓ **Select “Use Indirect Password” .Enter the username again as the password.**
- ✓ **Select Finish**

Home   Attributes   Proxy Interfaces

\* Name

\* Connection Factory Class   
Class must be available to the application's class loader.

**URL**

You can either specify a URL directly or have it generated from connection information. When you test a connection, the connection factory class and credential specified on this page will be used to perform the test.

JDBC URL

Generate URL from Connection Information

Driver Type

DB Host Name

DB Listener Port

DB Identifier Type

SID/Service Name

TNS Alias

**Credentials**

**TIP** For OracleDataSources, credentials must be entered if not already specified in the URL.

Username

Use Cleartext Password  
 Password

Use Indirect Password ⓘ  
 Indirect Password   
example: Scott, customers/Scott

## 8. Test the Database Connection

(i) After creating the ADOGL Connection Pool.

- ✓ Go to Administration -> **JDBC Resources**
- ✓ Click on "Test Connection" in the ADOGL Connection Pool row.

Application

Data Sources

Create					
Attributes					
Name ▲	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection
"ADOGL_DS"	default	ADOGL_DS	"ADOGL Connection Pool"	✓	
"FLEXTEST_WORLD"	default	FLEXTEST_WORLD	"FCUBS Gateway Connection Pool"	✓	
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"	✓	

Connection Pools

Create					
Name ▲	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool
"ADOGL Connection Pool"	default	oracle.jdbc.pool.OracleDataSource			
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource			
"FCUBS Gateway Connection Pool"	default	oracle.jdbc.pool.OracleDataSource			

(ii) The following screen is displayed.

✓ Click Test.

Test OK

Username **fxgiga**  
 Password **fxgiga**  
 URL **jdbc:oracle:thin:@//10.80.50.218:1522/FLEXTEST**  
 \* SQL Statement

TIP Certain JDBC drivers require restarting the OC4J instance before a change to the URL is reflected in the driver's cache.

Test OK

(iii) The following screen is displayed.

✓ Ensure the connection is established successfully.

OC4J: home >

**Confirmation**  
Connection to "ADOGL Connection Pool" established successfully.

JDBC Resources

Page Refreshed Jul 25, 2006 2:51:05 PM IST

Application

Data Sources

Create							
Name	Application	Attributes			Managed by OC4J	Test Connection	Delete
		JNDI Location	Connection Pool				
"ADOGL_DS"	default	ADOGL_DS	"ADOGL Connection Pool"		✓		
"FLEXTEST.WORLD"	default	FLEXTEST.WORLD	"FCUBS Gateway Connection Pool"		✓		
"OracleDS"	default	jdbc/OracleDS	"Example Connection Pool"		✓		

Connection Pools

Create							
Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete	
"ADOGL Connection Pool"	default	oracle.jdbc.pool.OracleDataSource					
"Example Connection Pool"	default	oracle.jdbc.pool.OracleDataSource					
"FCUBS Gateway Connection Pool"	default	oracle.jdbc.pool.OracleDataSource					



## 1.3 Data Source Creation

### 1. Create Data Source

- ✓ Go to Administration -> **JDBC Resources**
- ✓ Click on "Create".

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Application Server Control

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OC4J: home >

**Information**  
Connection Pool ADOGL Connection Pool has been created.

**JDBC Resources**

Page Refreshed May 24, 2006 6:49:35 PM GMT+05:30

Application  oracle.jdbc.pool.OracleDataSource

**Data Sources** Create

Name	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
<a href="#">"OracleDS"</a>	default	jdbc/OracleDS	<a href="#">"Example Connection Pool"</a>	✓		

**Connection Pools** Create

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
<a href="#">"Example Connection Pool"</a>	default	oracle.jdbc.pool.OracleDataSource				
<a href="#">"FCUBS_Gateway_Connection_Pool"</a>	default	oracle.jdbc.xa.client.OracleXADataSource				
<a href="#">"ADOGL_Connection_Pool"</a>	default	oracle.jdbc.xa.client.OracleXADataSource				

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### 2. The following screen is displayed.

- ✓ Select default Application.
- ✓ Click on "Continue".

### Create Data Source - Application & Type

#### Application

Select the application to which this new data source is to be added.

Application

#### Data Source Type

Managed Data Source

A managed data source is one where OC4J provides critical system infrastructure such as global transaction management, connection pooling, statement caching and error handling.

Native Data Source

A native data source is one that implements the java.sql.DataSource interface and does not make use of OC4J's connection pooling or statement caching capabilities. A native data source can only participate in local transactions.

3. The following screen is displayed.

- ✓ Enter the DataSource Name
- ✓ Enter the JNDI Location
- ✓ Enter the Transactional Level – Global & Local Transactions
- ✓ Select the corresponding Connection Pool Name
- ✓ Click Finish

### Create Data Source - Managed Data Source

Application **default**

\* Name   
\* JNDI Location   
Transaction Level   
Connection Pool   
\* Login Timeout (seconds)   
Maximum time to wait while attempting to connect to a database.

6. The following screen is displayed.

Ensure "ADOGL\_DS" has been created.

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---

OC4J: home >

**Information**  
Data Source ADOGL\_DS has been created.

**JDBC Resources** Page Refreshed **May 24, 2006 6:55:34 PM GMT+05:30**

Application:

**Data Sources** Create

Name	Application	JNDI Location	Connection Pool	Managed by OC4J	Test	Delete
<b>ADOGL_DS</b>	default	ADOGL_DS	"ADOGL_Connection_Pool"	✓		
"FLEXTEST_WORLD"	default	FLEXTEST_WORLD	"FCUBS_Gateway_Connection_Pool"	✓		
"OracleDS"	default	jdbc/OracleDS	"Example_Connection_Pool"	✓		

**Connection Pools** Create

Name	Application	Connection Factory Class	Monitor Performance	Test Connection	Refresh Connection Pool	Delete
"Example_Connection_Pool"	default	oracle.jdbc.pool.OracleDataSource				
"FCUBS_Gateway_Connection_Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				
"ADOGL_Connection_Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				

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All the data sources are created. Go to the home page.



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