

FLEXCUBE UBS Oracle GL Adapter Data Source Creation
Installation

Oracle FLEXCUBE Universal Banking

Release 14.4.0.0.0

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1. 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**.

ORACLE Enterprise Manager 10g
Application Server Control

Login

* User Name

* Password

Login

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

1. Navigate to the OC4J Home Page.

- ✓ Click "**Administration**".

- ✓ Click the Go to Task icon  in the **Security Providers** row of the Administration Task table.

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**.

OC4J: home >

Security Providers

Page Refreshed Jul 11, 2006 5:06:02 PM IST

Instance Level Security

You can configure the security attributes (realms, users & roles) for all applications deployed to this OC4J instance by clicking on the button below.

Instance Level Security

Application Server Control Security

You can configure the security provider, users & roles for the Application Server Control management application by clicking on the button below or by using the global Setup link.

Application Server Control Security

Application Level Security

The table lists applications currently deployed to this OC4J instance and the security provider in use by each application. You can edit the properties of the security provider specified for a given application by clicking on the Edit icon.

3. The following screen is displayed.

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

ORACLE Enterprise Manager 10g
Application Server Control

OC4J: home > Security Providers >
Instance Level Security

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

Security Provider Attributes: File-Based Security Provider

General **Realms**

Security Provider Type **File-Based Security Provider**
XML File Location **system-jazn-data.xml**
Default Realm **jazn.com**

☒ **TIP** File location path is displayed relative to application deployment directory.

General **Realms**

Setup | Logs | Help | Logout

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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

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.

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

[Create](#)

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

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

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

Setup | Logs | Help | Logout

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7. The following screen displays the User names:

ORACLE Enterprise Manager 10g
Application Server Control

OC4J: home > Security Providers > Instance Level Security >

Confirmation
User fxgiga has been created.

Users

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

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

Search

Name Go

Results

User Name	Assigned Roles	Delete
anonymous		
fcciga	oc4j-administrators*, users*, oc4j-app-administrators*	
fxgiga	oc4j-administrators*, users*, oc4j-app-administrators*	
JtaAdmin	oc4j-administrators*	
oc4jadmin	oc4j-administrators*	

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

Setup | Logs | Help | Logout

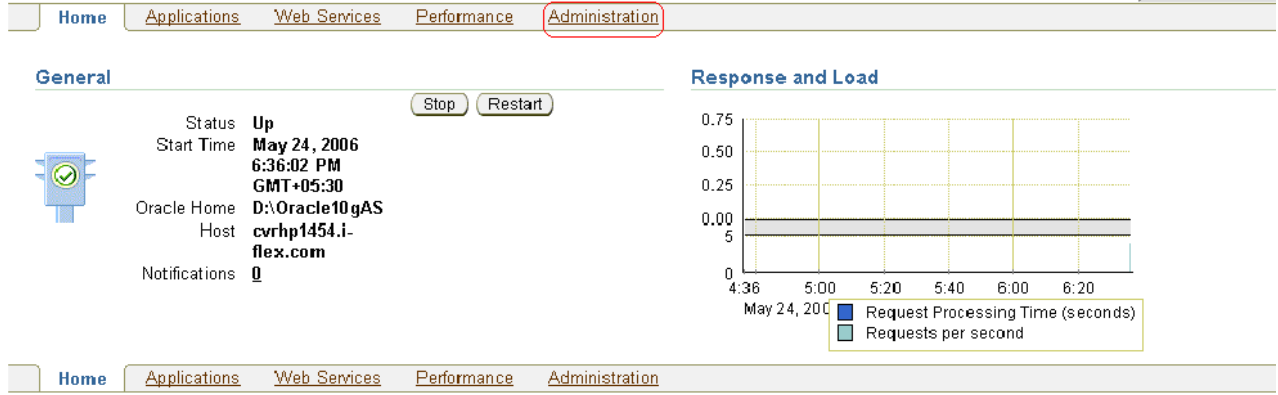
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1.2 Connection Pool Creation

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

OC4J: home

Page Refreshed May 24, 2006 6:36:38 PM GMT+05:30 • View Data Manual Refresh



2. The following screen is displayed.

✓ Go to “JDBC Resources” Task.

Page Refreshed May 24, 2006 6:38:39 PM GMT+05:30

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	Go to Task	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/ias/oc4j/admin/jdbc Local intranet

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

✓ **Click on “Create”.**

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				

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

4. We get the following screen.

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

OC4J: home > JDBC Resources >

Create Connection Pool - Application

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

Application

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

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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:FLEXTES
- ✓ 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.

OC4J: home >

JDBC Resources

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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			

Setup | Logs | Help | Logout

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(ii) The following screen is displayed.

✓ Click Test.

OC4J: home > JDBC Resources >

Test Connection: "ADOGL Connection Pool"

Test OK

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

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

Test OK

Setup | Logs | Help | Logout

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(iii) The following screen is displayed.

✓ Ensure the connection is established successfully.

OC4J: home >

Confirmation

Connection to "ADOGL Connection Pool" established successfully.

JDBC Resources

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Application

Data Sources

Create						
Attributes						
Name ▲	Application	JNDI Location	Connection Pool	Managed by OC4J	Test Connection	Delete
"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".

[OC4J home](#) >

Information

Connection Pool ADOGL Connection Pool has been created.

JDBC Resources

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Application

oracle.jdbc.pool.OracleDataSource

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				
"FCUBS Gateway Connection Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				
"ADOGL Connection Pool"	default	oracle.jdbc.xa.client.OracleXADataSource				

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

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2.The following screen is displayed.

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

[OC4J home](#) > [JDBC Resources](#) >

Create Data Source - Application & Type

[Cancel](#) [Continue](#)

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.

[Cancel](#) [Continue](#)

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

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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

ORACLE Enterprise Manager 10g
Application Server Control

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

[OC4J: home](#) > [JDBC Resources](#) >

Create Data Source - Managed Data Source

[Cancel](#) [Back](#) [Finish](#)

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.

ORACLE Enterprise Manager 10g
Application Server Control

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

[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 Connection	Delete
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
"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				

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

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



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