Oracle GL Adapter Data Source Creation Oracle FLEXCUBE Universal Banking Release 12.2.0.0.0 [May] [2016]

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1. Installation Steps

1.1 <u>Prerequisite</u>

Ensure that the basic KERNEL Oracle GL Adapter Environment Setup is done.
 [Please refer <u>ADOGL_Installation.doc.]</u>

1.2 <u>Steps</u>

1. Stop the application server.

If the application server is already running, then stop the application server as follows:

- ✓ For Windows
- Go to the <APP_SERVER_HOME>/bin directory in the command prompt, type **stopServer.bat server1** and press enter.

2. Start the application server.

- ✓ For Windows
 - Go to the <APP_SERVER_HOME>/bin .i.e the application server installation directory in the command prompt, type **startServer.bat server1** and press enter.
 - 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.

C:\Program	Files\IBM\WebSphere\AppServer\bin>startServer.bat server1
ADMUØ1Ī6I:	Tool information is being logged in file C:\Program
	Files\IBM\WebSphere\AppServer\profiles\default\logs\server1\startServer.log
ADMUØ128I:	Starting tool with the default profile
ADMU3100I:	Reading configuration for server: server1
ADMU3200I:	Server launched. Waiting for initialization status.
ADMU3000I:	Server server1 open for e-business; process id is 1852

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3. Open the administrative console of the application server

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

e.g. http://10.80.4.102:9060/ibm/console

Where, 10.80.4.102 is the machine IP Address on which WAS is running.

✓ Enter a user id for launching the WAS Admin Console window.

The user id can be any name e.g.: KERNEL 7.2

🚰 WebSphere Administrative Console Login - Microsoft Internet Explorer
File Edit View Favorites Tools Help
🚱 Back 🝷 🕥 👻 😰 🏠 🔎 Search 👷 Favorites 🛛 🤣 🔊 🗣 چ 📨 📮 🎎
Address 🗃 http://10.80.4.102:9060/ibm/console/
Welcome, please enter your information.
User ID: KERNEL 7.2
Log in
The User ID does not require a password, and does not need to be a User ID of a user in the local user registry. It is only used to track user-specific changes to configuration data. Security is NOT enabled



4. Configure Security settings

Click on the Security option, expand the selection and click on Global security as shown in the screen shot below.



5. Following screen will be displayed. Expand JAAS Configuration and click on J2C Authentication data.



Global security

obal security recifies the global security configuration for a managed domain. The following steps onfigure the desired user registry listed under User registries and set its properties. ition on this panel. 3. Select the configured user registry type from the Active user r	are required to turn on security: 2. Select the Enable global secur egistry option on this panel.
onfiguration	
General Properties	– User registries
Enable global security	 Custom
Enforce Java 2 security	= <u>LDAP</u> = Local OS
Enforce fine-grained JCA security	Authentication
Use domain-qualified user IDs	Authentication mechanisms
* Cache timeout 600 seconds	Authentication
✓ Issue permission warning	Protocol
Active protocol CSI and SAS 👤	= Application logins
Active authentication mechanism	System logins
Simple WebSphere Authentication Mechanism (SWAM)	Authentication data
Local OS (single, stand-alone server or sysplex and root administrator only) 💌	Authorization
\square Use the Federal Information Processing Standard (FIPS)	 Authorization providers
Apply OK Reset Cancel	Additional Properties
	Custom properties

6. After clicking on J2C Authentication data following screen will be displayed. Click on New.

Close p

Global security

lobal security		2				
<u>Global security</u> > J2EE Connector Architecture (J2C) authentication data entries Specifies a list of user IDs and passwords for Java 2 connector security to use						
Preferences						
New Delete						
Select Alias 🛟	User ID 🗘	Description 🗘				
None						
Total 0						

7. Following screen will be displayed. Enter the values as explained below and click on "Apply".

Global security

Global security > J2EE Connect Specifies a list of user IDs and	t <mark>or Archite</mark> passwords	<mark>cture (]</mark> for Java	2 connector	<mark>ation data en</mark> security to us	i <mark>tries</mark> > New :e.	
Configuration						
Concerned Brancowski a						
General Properties						I.
FXGKERNEL security						
* User ID						
FXGKERNEL						
* Password						
•••••						
Description						
FXGKERNEL security						
Apply OK Reset	Cancel					



Alias:	FXGKERNEL Security (It can be any name)
User ID:	FXGKERNEL (The database instance User Id)
Password:	FXGKERNEL (The password for this database instance)
Description:	(Its an optional field)

8. Following screen will be displayed. Click on "Save".

Accurity Messages Changes have been made to your local configuration. Click Save on apply changes to the master configuration. The server may need to be restarted for these changes to take effect. Isecurity > J2EE Connector Architecture (J2C) authentication data entries > 1455Node01/FXGKERNEL security Files a list of user IDs and passwords for Java 2 connector security to use. Iguration Eneral Properties Alias Cyrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password FXGKERNEL Description FXGKERNEL security	Acurity Messages Changes have been made to your local configuration. Click Save to apply changes to the master configuration. The server may need to be restarted for these changes to take effect. Isecurity > J2EE Connector Architecture (J2C) authentication data entries > 1455Node01/FXGKERNEL security Fies a list of user IDs and passwords for Java 2 connector security to use. Iguration Eneral Properties Alias Curhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password FXGKERNEL Password FXGKERNEL security Apply OK Reset Cancel	curity
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Changes have been made to your local configuration. Click Save of apply changes to the master configuration. The server may need to be restarted for these changes to take effect. a) Security > J2EE Connector Architecture (J2C) authentication data entries > D1455Node01/FXGKERNEL security if is a list of user IDs and passwords for Java 2 connector security to use. figuration eneral Properties A lias (vrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password •••••• Description FXGKERNEL security	Changes have been made to your local configuration. Click Save to apply changes to the master configuration. The server may need to be restarted for these changes to take effect. Sol455Node01/FXGKERNEL security fies a list of user IDs and passwords for Java 2 connector security to use. iguration eneral Properties Alias cvrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password eneral Apply OK Reset Cancel	🖯 Messages
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al security > J2EE Connector Architecture (J2C) authentication data entries > o1455Node01/FXGKERNEL security ifies a list of user IDs and passwords for Java 2 connector security to use. iguration eneral Properties Alias cvrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password ••••••• Description FXGKERNEL security	A security > J2EE Connector Architecture (J2C) authentication data entries > 01455Node01/FXGKERNEL security fies a list of user IDs and passwords for Java 2 connector security to use. iguration eneral Properties Alias cvrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password Description FXGKERNEL security Apply OK Reset Cancel	The server may need to be restarted for these changes to take effect.
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Alias cvrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password •••••• Description FXGKERNEL security	Alias Cvrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password Oescription FXGKERNEL security Apply OK Reset Cancel	ies a list of user IDs and passwords for Java 2 connector security to use.
Alias cvrhp1455Node01/FXGKERNEL security User ID FXGKERNEL Password •••••• Description FXGKERNEL security	Alias • Alias cvrhp1455Node01/FXGKERNEL security • User ID FXGKERNEL • Password ••••••• Description FXGKERNEL security Apply OK Reset Cancel	
* User ID FXGKERNEL * Password ••••••• Description FXGKERNEL security	User ID FXGKERNEL Password ••••••• Description FXGKERNEL security Apply OK Reset Cancel	Alias cvrhp1455Node01/FXGKERNEL security
* Password •••••• Description FXGKERNEL security	Password ••••••• Description FXGKERNEL security Apply OK Reset Cancel	User ID FXGKERNEL
Description FXGKERNEL security	Description FXGKERNEL security Apply OK Reset Cancel	Password ••••••
	Apply OK Reset Cancel	Description FXGKERNEL security
Apply OK Reset Cancel		

9. Following screen will be displayed. Click on "Save".

G	lobal security
0	ilobal security ? _
	<u>Global security</u> > <u>J2EE Connector Architecture (J2C) authentication data entries</u> > cvrhp1455Node01/FXGKERNEL security > Save
	Save your workspace changes to the master configuration
	Click Save to update the master repository with your changes. Click Discard to discard your changes and begin work again using the master repository configuration. Click Cancel to continue working with your changes.
	Total changed documents: 1
	Save Discard Cancel

10. Following screen will be displayed showing the J2C Authentication data as created in the above steps.

lobal security		2		
Global security > J2EE Connector Arc Specifies a list of user IDs and passw Preferences	hitecture (J2C) authentication ords for Java 2 connector secur	data entries ity to use.		
New Delete				
				Select Alias 💠
Covrhp1455Node01/FXGKERNEL security	FXGKERNEL	FXGKERNEL security		
Total 1				



- 11. Click on the Resources tab to expand the selection and click on "JDBC Providers"
 - ✓ Select Node option button and click on Apply

Welcome	JDBC providers
🗄 Guided Activities	JDBC providers ? -
	JDBC providers
Applications	JDBC providers are used by the installed applications to access data from databases.
🖯 Resources	Scope: Cell=cvrhp1455Node01Cell, Node=cvrhp1455Node01
 JMS Providers JDBC Providers Resource Adapters Asynchronous beans Schedulers Cache instances Object pool managers Mail Providers URL Providers Resource Environment Providers 	 Cell : cvrhp1455Node01Cell Cell : cvrhp1455Node01Cell Gerver : server1 Apply Preferences
🗄 Security	New Delete
🗄 Environment	
Bystem administration	Select Name 🗘 Description 🗘
Monitoring and Tuning	None
	Total 0
E Service integration ■	

12. Click on "New" as shown to create a new JDBC provider



DBC providers			2 -	
JDBC providers				
JDBC providers are used by the installed	applications	to access data from databases.		
😑 Scope: Cell=cvrhp1455Node01Cell, N	ode= cvrhp1	455Node01		
C Cell : cvrhp1455Node01Cell	Scope spec definition is	ifies the level at which the resource s visible. For detailed information		
→ 💿 Node : cvrhp1455Node01	<u>scope setti</u>	ngs help		
C Server : server1				
Apply				
Preferences				
New Delete				
Select Name 🛟		Description 🗘		
None				
Total O				

13. Following screen will be displayed.

- ✓ Select Oracle for database type
- ✓ Select Oracle JDBC Driver for the provider type
- ✓ Select XA data source for the implementation type.

Click **Next** after this is done.



C providers	2
IDBC providers > New	
Choose a type of JDBC provider to create.	
Configuration	
General Properties	_
Step 1: Select the database type Oracle	
Step 2: Select the provider type Oracle JDBC Driver 👻	
Step 3: Select the implementation type XA data source	
Next Cancel	

14. Following screen will be displayed.

✓ Specify the classpath for ojdbc14.jar

e.g.: D:/Program Files/IBM/WebSphere/AppServer/lib/ext/ojdbc14.jar

✓ Click on **Apply**.

JDBC providers > New

JDBC providers are used by the installed applications to access data from databases.

Configuration	
General Properties * Scope [cells:cvrhp1455Node01Cell:nodes:cvrhp1455Node01	The additional properties will not be available until the general properties for this item are saved. Additional Properties
* Name FXGKERNEL JDBC Provider	 Data sources
Description Oracle JDBC Driver (XA)	Data sources (Version 4)
Class path D:/Program Files/IBM/WebSphere/AppServer/ lib/ext/ojdbc14.jar	
Native library path	
* Implementation class name	
Oracle.jdbc.xa.dient.OracleXADataSource	

15. Following screen will be displayed. Click on "Data sources"



roviders	
Messages	
apply changes to the master configuration.	nfiguration. Click <mark>Save</mark> to
The server may need to be restarted for th effect.	nese changes to take
<u>providers</u> > FXGKERNEL JDBC Provider	
providers are used by the installed applications to access	s data from databases.
figuration	
eneral Properties	- Additional Properties
Scope	
cells:cvrhp1455Node01Cell:nodes:cvrhp1455Node01	Data sources
	Data sources (Version 4)
Name	1
PAGRERNEL JDBC Provider	
Description	
Oracle JDBC Driver (XA)	
Class path	
D:/Program	
Files/IBM/WebSphere/AppServer/ lib/ext/oidbc14.iar	
Native library path	
Implementation class name	
oracle.jdbc.xa.client.OracleXADataSource	
Apply OK Reset Cancel	
Apply Ford Reset Cancer	

16. Following screen will be displayed. Click on "New"



DBC providers			2 -		
🖯 Messages					
⚠ Changes h apply change:	▲ Changes have been made to your local configuration. Click <u>Save</u> to apply changes to the master configuration.				
🖬 The server effect.	The server may need to be restarted for these changes to take effect.				
<u>JDBC providers</u> > FXGKERNEL	JDBC Provider > Data	sources			
A data source is used by the application to access data from the database. A data source is created under a JDBC provider, which supplies the specific JDBC driver implementation class.					
Preferences					
New Delete Test connection Manage state					
Select Name JNDI name Description Category					
None					
Total 0					

17. Following screen will be displayed. Click on "New"

✓ Enter data as explained below

Name:	ADOGL_DS
JNDI Name:	ADOGL_DS
Data store Helper class name	Choose Oracle 10g Data store Helper
Component-managed authentication alias	cvrhp1455Node01/FXGKERNEL Security (Select the J2C authentication data we had created in step 8)
URL	jdbc:oracle:thin:@10.80.50.218:1522:FLEXTEST (Here we are connecting to FLEXTEST.WORLD)



Note: The name of Datasource must be same as the database instance messaging schema nam. In case where distributed business schema is different from messaging schema we have to create another datasource for business schem.

✓ Click on Apply

JDBC providers

🖂 Messages	
Changes have been made to your local configuration. C changes to the master configuration.	lick <u>Save</u> to apply
The server may need to be restarted for these changes	to take effect.
Additional Properties for this object will not be available general properties are applied by clicking on either Apply of	to edit until its r OK.
providers > FXGKERNEL JDBC Provider > <u>Data sources</u> > New	,
a source is used by the application to access data from the database, i	A data source is created ur
provider, which supplies the specific JDBC driver implementation class.	
guration	
eneral Properties	The additional
Scope	properties will not be available uptil the
cells:cvrhp1455Node01Cell:nodes:cvrhp1455Node01	general properties fo
	this item are saved.
Name	Additional Propertie
ADOGL_DS	
	pool
JNDI name	properties
ADOGL_DS	WebSphere
	Application
Use this Data Source in container managed persistence (CMP)	Server data
Description	properties
New JDBC Datasource	Custore
	properties
	L
,	Related Items
Category	
	J2EE
	Architecture
Data store helper class name	(J2C)
Select a data store helper class	authentication
	data entries
Data store helper classes provided by WebSphere Application	



Select a data store helper class Data store helper classes provided by WebSphere Application Server	(J2C) authentication
Data store helper classes provided by WebSphere Application Server	admenucadun
Overdagi and avier data stars helper	data entries
(com.ibm.websphere.rsadapter.OracleDataStoreHelper)	
(com.ibm.websphere.rsadapter.Oracle10gDataStoreHelper)	
O Specify a user-defined data store helper	
Enter a package-qualified data store helper class name	
Component-managed authentication alias	
Component-managed authentication alias cvrhp1455Node01/FXGKERNEL security 💌	
Authentication alias for XA recovery	
O Use component-managed authentication alias	
O Specifiu	
Container-managed authentication Container-managed authentication alias (deprecated in V6.0, use resource reference authentication settings instead)	
(none)	
Mapping-configuration alias (deprecated in V6.0, use resource reference authentication settings instead)	
(none)	
Coracle data source properties	
* URL jdbc:oracle:thin:@10.80.50.218:1522:FLEXTEST	
Apply OK Reset Cancel	



18. Following screen will be displayed. Click on "Save".

neovidaes	
 Messages Changes have been made to your local configuration. Clickanges to the master configuration. The server may need to be restarted for these changes. 	ick <mark>(Save)</mark> to apply
La me server may need to be restarted for diese changes	to take effect.
st providers > FAGRERNEL JUBC Provider > Data sources > AbogL_Ds	data cource is seasted und
C provider, which supplies the specific JDBC driver implementation class.	(data source is treated dild
nfiguration	
Test connection	
General Properties	 Additional Properties
* Scope	Connection
cells:cvrhp1455NodeU1Cell:nodes:cvrhp1455NodeU1	pool
	properties
* Name	WebSphere
ADOGE_D0	<u>Application</u> Server data
JNDI name	source
ADOGL_DS	properties
	Custom
Use this Data Source in container managed persistence (CMP)	propercies
Description	
New JDBC Datasource	Related Items
	= 1255
	Connector
	Architecture
Category	(J2C) autheratication
	<u>data entries</u>
Data store helper class name	
• Select a data store helper class	
Select a data store helper class Data store helper classes provided by WebSphere Application	

19. Following screen will be displayed. Click on "Save".



JDBC providers ? _
<u>JDBC providers</u> > FXGKERNEL JDBC Provider > Save Save your workspace changes to the master configuration
Click Save to update the master repository with your changes. Click Discard to discard your changes
and begin work again using the master repository configuration. Click Cancel to continue working with your changes.
Total changed documents: 1
Save Discard Cancel

20. Following screen will be displayed.

- ✓ Click on the checkbox against the Data Source as created in the above steps.
- ✓ Click on Test connection

JDBC providers

r -				
<u>JDBC providers</u> > FXGKERNEL JDBC Provider > <u>Save</u> > Data sources				
A data source is used by the application to access data from the database. A data source is created under a JDBC provider, which supplies the specific JDBC driver implementation class.				
Preferences				
New Delete Test connection Manage state				
Select Name 🗘 JNDI name 🗘 Description 🗘 Category 🗘				
ADOGL DS ADOGL_DS New JDBC Datasource				
Total 1				



21. Following screen will be displayed, indicating the status of Test Connection.

DBC providers ? . Messages Test connection for data source ADOGL_DS on server server1 at node cvrhp1455Node01 was successful.				
<u>JDBC providers</u> > FXGKERNEL JDBC Provider > <u>Save</u> > Data sources				
A data source is used by the application to access data from the database. A data source is created under a JDBC provider, which supplies the specific JDBC driver implementation class.				
Preferences				
New Delete Test connection Manage state				
Select	Name 🛟	JNDI name 🗘	Description 🗘	Category 🗘
	ADOGL DS	ADOGL_DS	New JDBC Datasource	
Total	1			





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