FLEXCUBE UBS Oracle GL EJB Adapter Installation Oracle FLEXCUBE Universal Banking Release 12.1.0.0.0 [October] [2015]



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1. Installation Steps

1.1 Prerequisite

✓ Ensure that the basic KERNEL Oracle GL Adapter Environment Setup is done.

[Please refer ADOGL Installation.doc.]

1.2 <u>Steps</u>

A. Configure FLEXCUBE UBS Oracle GL EJB Adapter Properties

Edit <*KERNEL_INSTALL_DIR*>/ADOGL_EJB/config/ADOGL_EJB_Prop.properties file to give appropriate values for the properties as described below,

1. DTD_PATH: This property specifies the path where the GLHANDOFF.DTD is stored.

e.g. DTD_PATH=<KERNEL_INSTALL_DIR>/ADOGL_EJB/DTD/

[NOTE: Give DTD file path with forward slash (/) as file separator and remember to give a slash at the end.]

2. OGL_ADAPTER_DTD: This property specifies the name of the DTD against which incoming OGL request are validated against.

e.g. OGL_ADAPTER_DTD=GLHANDOFF.DTD

3. XSL_PATH: This property specifies the path where the OGL_ADAPTER_XSL.xsl is stored.

e.g. XSL_PATH=<KERNEL_INSTALL_DIR>/ADOGL_EJB/XSL/

[NOTE: Give XSL file path with forward slash (/) as file separator and remember to give a slash at the end.]

4. OGL_ADAPTER_XSL: This property specifies the name of the DTD against which incoming OGL request are validated against.

e.g. OGL_ADAPTER_XSL=OGL_ADAPTER_XSL.xsl

5. ADOGL_EJB_JMS_QCF: This property is the Queue Connection Factory name.



e.g. ADOGL_EJB_JMS_QCF=MDBQCF

6. ADOGL_EJB_JMS_QUEUE_NAME: This property is the Queue name.

e.g. ADOGL_EJB_JMS_QUEUE_NAME=MDB_QUEUE

7. LOGGER_PATH: This property specifies the path of the logger property file. This file can be found at <KERNEL_INSTALL_DIR>/ADOGL_EJB/config.

[NOTE: Give the logger path with forward slash(/).]

The ADOGL_EJB_Prop.properties will look similar as follows,

DTD_PATH=D:/Kernel7.2/ADOGL_EJB/DTD/

OGL_ADAPTER_DTD=GLHANDOFF.DTD

XSL_PATH=D:/Kernel7.2/ADOGL_EJB/XSL/

OGL_ADAPTER_XSL=OGL_ADAPTER_XSL.xsl

ADOGL_EJB_JMS_QCF=MDBQCF

ADOGL_EJB_JMS_QUEUE_NAME=MDB_QUEUE

LOGGER_PATH=D:/Kernel7.2/GW_EJB/config/adogl_ejb_logger.cfg

B. Configure logger parameters

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Edit <KERNEL_INSTALL_DIR>/ADOGL_EJB/config/adogl_ejb_logger.cfg file to change the value of the property "AD.LOGGER.FPATH" to <KERNEL_INSTALL_DIR>/ADOGL_EJB/log/.

e.g. If the value of your <KERNEL_INSTALL_DIR> is D:/Kernel7.2, then the entry for this property will be,

AD.LOGGER.FPATH=D:/Kernel7.2/ADOGL_EJB/log/

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

C. 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_EJB\setup\WAS in the command prompt, type "**ws_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_EJB/setup/WAS in the shell prompt, type "ws_ant" and press enter.

[NOTE: Please make sure that you get a message BUILD SUCCESSFUL after compilation.]

D. Deploy ADOGL EJB in WebSphere Application Server (WAS)

1. Stop the application server.

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

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- ✓ 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
	Tool information is being logged in file C:\Program
	Files\IBM\WebSphere\AppServer\profiles\default\logs\server1\startServer.log
ADMU0128I:	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

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 🛛 🤣 🔊 🕶 😓 📝 👻 💭 🎉
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. Create an XA QueueConnectionFactory with the name MDBQCF

[Refer: <u>WAS_ADOGL_WebSphereMQ_Installation.doc</u>]

5. Create Websphere MQ Queue Destinations with the following names

a. MDB_QUEUE

[Refer: WAS_ADOGL_WebSphereMQ_Installation.doc]

6. Deploying ADOGL_EJB_FACADE_Bean.ear

- ✓ Click on Applications -> Install New Application.
- ✓ Following screen will be displayed. Specify the local path of the enterprise archive file

(i.e. <KERNEL_INSTALL_DIR>/ADOGL_EJB/build/ADOGL_EJB_FACADE_Bean.ear) and click on Next.



Welcome	Enterprise Applications	
E Guided Activities	Preparing for the application installation	2 -
Applications	Specify the EAR, WAR or JAR module to upload and install.	
Enterprise Applications Install New Application Resources Security Environment System administration	Path to the new application. Local file system Specify path Remote file system Specify path Browse Browse Brows	
Monitoring and Tuning		
	Context root Used only for standalone Web modules (.war files)	
Service integration	Used only for standalone web modules (.war files)	
IDDI 🗄	(Next) Cancel	

7. Following screen will be displayed. Click on Next.

prise Applications	
aring for the application installation	
noose to generate default bindings and mappings.	
🗌 Generate Default Bindings	
Prefixes:	
O not specify unique prefix for beans	
O Specify Prefix:	
Prefix	
ejb	
Override:	
O not override existing bindings	
O override existing bindings	
Specific bindings file Browse	
Previous Next Cancel	

8. Following screen will be displayed. Click on Next.

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Enterprise Applications

Install New Application Specify options for installing enterprise applications and modules. Step 1: Select installation options Select installation options Specify the various options that are available to prepare and install Step 2 Map your application. Pre-compile JSP Step 3 Provide Directory to install application options to perform Step 4 Provide ☑ Distribute application Beans Use Binary Configuration Step 5 Map Deploy enterprise beans resource references Application name ADOGL_EJB_FACADE_Bea <u>Step 6</u> Map resource envientry Create MBeans for resources 🔲 Enable class reloading Step 7 Ensure all Reload interval in seconds unprotected 2.x methods have the correct level of Deploy Web services Validate Input off/warn/fail Step 8 Summary warn 👻 Process embedded configuration Next Cancel

9. Following screen will be displayed. Click on Next.



Close page

-			
Enter	nrise.	Annl	ications

	<u>Step 1</u> Select installation options	Map m	odules to servers		
→	Step 2: Map modules to servers	can be routers	installed on the same applicat	rvers or clusters of application servers tion server or dispersed among sever n. The plug-in configuration file (plugi	al application servers. Also
	<u>Step 3</u> Provide options to perform	Cluste			
	the EJB Deploy	Web	Sphere:cell=cvrhp1455Node010	Cell,node=cvrhp1455Node01,server=s	erver1 Apply
*	<u>Step 4</u> Provide JNDI Names for		6		
	Beans	Select	Module	URI	Server
*	<u>Step 5</u> Map resource references to resources		ADOGL_EJB_FACADE_Bean.jar	ADOGL_EJB_FACADE_Bean.jar,META- INF/ejb-jar.xml	WebSphere:cell=cvrhp145
*	<u>Step 6</u> Map resource env entry references to resources				
	Step 7 Ensure all unprotected 2.x methods have the correct level of				

10. Following screen will be displayed.

Select the database type as "ORACLE_V10G" from the drop down list and click on NEXT.

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Enterprise Applications

Install New Application 2 -Specify options for installing enterprise applications and modules. Step 1 Select Provide options to perform the EJB Deploy Specify the options to deploy enterprise beans. <u>Step 2</u> Map EJB Deployment Options Enable Deploy EJB option - Class path Step 3: Provide options to perform Deploy EJB option - RMIC the EJB Deploy Deploy EJB option - Database type ORACLE_V10G -<u>Step 4</u> Provide Deploy EJB option - Database schema Beans <u>Step 5</u> Map Step 6 Ensure all unprotected 2.x methods have the Step 7 Summary Previous Next Cancel

11. Following screen will be displayed.

Specify the JNDI name of the EJB Bean i.e. "ADOGL_EJB_FACADE_Bean" and click on NEXT.



	<u>Step 1</u> Select installation options	Provide JNDI Names for Be	ans				
	<u>Step 2</u> Map modules to servers	Each non-message-driven enterprise bean in your application or module must be bound to a Java Naming and Directory Interface (JNDI) name.					
		EJB module	EJB	URI	JNDI name		
	<u>Step 3</u> Provide options to perform the EJB Deploy	ADOGL_EJB_FACADE_Bean.jar	ADOGL_EJB_FACADE_Bean	ADOGL_EJB_FACADE_Bean.jar,META- INF/ejb-jar.xml	ADOGL_EJB_FACADE_Bea		
→	Step 4: Provide JNDI Names for Beans						
*	<u>Step 5</u> Map resource references to resources						
*	<u>Step 6</u> Map resource env entry references to resources						
	<u>Step 7</u> Ensure all unprotected 2.× methods have the						

12. Following screen will be displayed.

Specify the JNDI name for Resource Reference i.e. XAQueueConnectionFactory name and click on Next.



*	Pesource references to resources Step 6 Map resource env entry references to resources Step 7 Ensure all unprotected 2.x methods have the correct level of protection Step 8 Summary	1.	b. Click Apply ■ if 'custom login configuration' a. select a custom logi b. Click Apply	ces in the table , or 'custom login configural checkboxes in the table ation data entry from the dropdo 'is selected: in configuration from the dropdo	tion'		
			fy authentication method: none Select authentication data entry Select Use custom login configuration Select application login configur Select	¥			
		Ø	6				
		Select	Module	EJB	URI	Reference binding	JNDI name
		Ø	ADOGL_EJB_FACADE_Bean.jar	ADOGL_EJB_FACADE_Bean	ADOGL_EJB_FACADE_Bean.jar,META- INF/ejb-jar.xml	MDBQCF	
	Previous Next C	Cancel					

13. Following screen will be displayed. Click Continue.



Enterprise Applications

de; the	ADMA8019E: The resources that are assigned to the application are beyond the deployment target scope. Resources are within the ployment target scope if they are defined at the cell, node, server, or application level when the deployment target is a server, or a e cell, cluster, or application level when the deployment target is a cluster. Assign resources that are within the deployment target sc the application or confirm that these resources assignments are correct as specified.
	ep 5 - Map resource references to resources resulted in the following resource warnings. If Application Resource Validation is set to f u will not be able to continue past.
м	odule:
N	ame: ADOGL_EJB_FACADE_Bean.jar
U	RI: ADOGL_EJB_FACADE_Bean.jar,META-INF/ejb-jar.xml
Т	arget: WebSphere:cell=cvrhp1455Node01Cell,node=cvrhp1455Node01,server=server1
R	esource Reference:
N	ame: MDBQCF
Тţ	ype; javax.jms.XAQueueConnectionFactory
R	esource Assignment:
Na	ame: MDBQCF
S	cope: WebSphere:cell=cvrhp1455Node01Cell,node=cvrhp1455Node01,server=server1
4	Type: JMSProvider
٦Ŀ	NDI: MDBQCF
~	
	Continue Cancel

14. Following screen will be displayed.

- ✓ Type the JNDI name of the Queue i.e. MDB_QUEUE
- ✓ Select the Check box beside it
- ✓ Click on Next.





Enterprise	Appl	ications
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<u>Step 1</u> Select installation options	Map re	esource env entry referenc	es to resources			
<u>Step 2</u> Map modules to servers		esource environment reference ply Multiple Mappings	defined in your application	must map to a resource.		
<u>Step 3</u> Provide options to perform		6				
the EJB Deploy	Select	Module	EJB	URI	Reference binding	JNDI name
<u>Step 4</u> Provide JNDI Names for Beans	Ø	ADOGL_EJB_FACADE_Bean.jar	ADOGL_EJB_FACADE_Bean	ADOGL_EJB_FACADE_Bean.jar,META- INF/ejb-jar.xml	MDB_QUEUE	
<u>Step 5</u> Map resource references to resources						
Step 6: Map resource env entry references to resources						

15. Following screen will be displayed. Click on Continue.

Enterprise Applications Close
Application Resource Warnings
ADMA8019E: The resources that are assigned to the application are beyond the deployment target scope. Resources are within the deployment target scope if they are defined at the cell, node, server, or application level when the deployment target is a server, or at the cell, cluster, or application level when the deployment target is a server, or at the cell, cluster, or application level when the deployment target scope of the application level when the deployment target is a server, or at the cell, cluster, or application level when the deployment target is a cluster. Assign resources that are within the deployment target scope of the application or confirm that these resources assignments are correct as specified.
Step 6 - Map resource env entry references to resources resulted in the following resource warnings. If Application Resource Validation set to fail, you will not be able to continue past.
Module:
Name: ADOGL_EJB_FACADE_Bean.jar
URI: ADOGL_EJB_FACADE_Bean.jar,META-INF/ejb-jar.xml
Target: WebSphere:cell=cvrhp1455Node01Cell,node=cvrhp1455Node01,server=server1
Resource Reference:
Name: MDB_QUEUE
Type: null
Resource Assignment:
Name: MDB_QUEUE
Scope: WebSphere:cell=cvrhp1455Node01Cell,node=cvrhp1455Node01,server=server1
⚠ Type: JMSProvider
JNDI: MDB_QUEUE
Continue Cancel

Close

16. Following screen will be displayed. Click on Next.

nterprise Applications			Clos	
nstall New Application			2	
Specify options for installin	ng enterprise applications and module	5.		
<u>Step 1</u> Select	Step 1 Select Ensure all unprotected 2.x methods have the correct level of protection stallation options Stallation options Stallation options			
<u>Step 2</u> Map modules to servers	Specify whether you want to assign exclude list, or mark the method as	a security role to the unprotected meth unchecked.	od, add the method to the	
<u>Step 3</u> Provide options to perform the EJB Deploy	 Uncheck Exclude Role: 			
<u>Step 4</u> Provide JNDI Names for Beans				
<u>Step 5</u> Map resource references	Select EJB module	URI	Protection type	
to resources <u>Step 6</u> Map	ADOGL_EJB_FACADE_Bean.ja	r ADOGL_EJB_FACADE_Bean.jar,META- INF/ejb-jar.xml	methodProtection.uncheck	
resource env entry references to resources				
→ Step 7: Ensure all unprotected 2.x methods have the correct level of protection				
<u>Step 8</u> Summary				
Previous Next C	Cancel			

17. Following screen will be displayed. Click on Finish.

[NOTE: This may take a few minutes.]



Enterprise Applications

Install New Application

<u>Step 1</u> Select Installation options	Summary		
	Summary of installation options		
<u>Step 2</u> Map hodules to servers	Options	Values	
Step 3 Provide	Use Binary Configuration	No	
ptions to perform	Deploy EJB option - Class path		
the EJB Deploy	Create MBeans for resources	Yes	
<u>Step 4</u> Provide	Cell/Node/Server	Click here	
NDI Names for eans	Reload interval in seconds		
<u>Step 5</u> Map resource references to resources	Enable class reloading	No	
	Deploy EJB option - Database type	ORACLE_V10G	
	Deploy EJB option - Database schema		
Step 6 Map	Process embedded configuration	No	
esource env entry eferences to	Application name	ADOGL_EJB_FACADE_Bean	
esources	Deploy EJB option - RMIC		
<u>Step 7</u> Ensure all	Validate Input off/warn/fail	warn	
nprotected 2.x	Directory to install application		
nethods have the prrect level of	Distribute application	Yes	
rotection	Deploy Web services	No	
tep 8: Summa ry	Pre-compile JSP	No	
	Deploy enterprise beans	Yes	

18.



2 .

19. Following screen will be displayed. Click on "Save to Master Configuration".

Invoking RMIC.
Generating DDL
Writing output file
Shutting down workbench.
EJBDeploy complete.
0 Errors, 0 Warnings, 0 Informational Messages
ADMA5007I: The EJBDeploy command completed on D:\Program Files\IBM\W/ebSphere\AppServer/profiles/default\wstemp\app_10b6b6eefda\dpl\dpl_ADOGL_EJB_FACADE_Bean.ear
ADMA5005I: The application ADOGL_EJB_FACADE_Bean is configured in the WebSphere Application Server repository.
ADMA5053I: The library references for the installed optional package are created.
ADMA5005I: The application ADOGL_EJB_FACADE_Bean is configured in the WebSphere Application Server repository.
ADMA5001I: The application binaries are saved in D:\Program Files\IBM\WebSphere\AppServer/profiles/default\wstemp\-1134867395 \workspace\cells\cvrhp1455Node01Cell\applications\ADOGL_EJB_FACADE_Bean.ear\ADOGL_EJB_FACADE_Bean.ear
ADMA5005I: The application ADOGL_EJB_FACADE_Bean is configured in the WebSphere Application Server repository.
SECJ0400I: Successfuly updated the application ADOGL_EJB_FACADE_Bean with the appContextIDForSecurity information.
ADMA5011I: The cleanup of the temp directory for application ADOGL_EJB_FACADE_Bean is complete.
ADMA5013I: Application ADOGL_EJB_FACADE_Bean installed successfully.
Application ADOGL_EJB_FACADE_Bean installed successfully.
To start the application, first save changes to the master configuration.
Save to Master Configuration
To work with installed applications, click the "Manage Applications" button.

Manage Applications



20. Following screen will be displayed. Click on Save.

Enterprise Applications

Enterprise Applications 2 _
Enterprise Applications > 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: 11
Save Discard Cancel

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21. Browse to Application -> Enterprise Applications.

- ✓ The deployed ADOGL_EJB_FACADE_Bean will be displayed on the screen.
- ✓ Click the check box beside it and click on **Start**.

= Welcome	Enterprise Applications	
∃ Guided Activities	Enterprise Applications	2 -
± Servers	Enterprise Applications	
Applications	Lists installed applications. A single application can be depl	oyed onto multiple servers.
 Enterprise Applications Install New Application 	Preferences Start Stop Install Uninstall Update Rol	lout Update Remove File Export DDL
🗄 Security	Select Name 🗢	Status 👲
🗄 Environment	ADOGL EJB FACADE Bean	*
🗄 System administration	AQBridgeFacade	\$
■ Monitoring and Tuning ■	GW EJB Bean	⇒
∃ Troubleshooting		
	GW HTTP Servlet	
UDDI	GW NOTIFY MDB Bean	€
	GW NOTIFY TIMER Bean	⇒
	Total 6	



22. Following screen will be displayed with a green arrow as the status indicating that the deployed ADOGL_EJB_FACADE_Bean is running.

ADOGL_EJB_FACADE_Be sfully. le application can be de		r1 and node cyrhp1455Node(01
sfully.		r1 and node cvrhp1455Node	01
e application can be de			
e application can be de	anlawed enter multi		
		ole servers.	
		pre servers.	
			1
stall Update I	Rollout Update	Remove File Export	Export DDL
	Status ሷ		
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	\$		
	stall Update		Status ()

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FLEXCUBE UBS Oracle GL EJB Adapter Installation [October] [2015] Version 12.1.0.0.0

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