FCUBS GridLink Datasource Configuration Oracle FLEXCUBE Universal Banking Release 14.4.0.2.0 [November] [2020]

FINANCIAL SERVICES

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# 1. Weblogic JDBC GridLink Datasource

## 1.1 Preface

You need to carry out certain tasks manually before Oracle FLEXCUBE deployment. This document details out the pre-deployment tasks based on GridLink Datasource configuration in Weblogic Application Server.

## 1.2 Purpose

Purpose of this document is to give understanding and configuration of Weblogic GridLink Datasource for Oracle FLEXCUBE.

## 1.3 Weblogic Data-Grid Datasource Overview

In WebLogic Server 12c (12.1.2), JDBC GridLink includes Oracle Database 12c integration, having the latest functionalities of Application Continuity, Database Resident Connection Pool, Pluggable Database and Global Data Services.

The RAC integration capabilities of Universal Connection Pool (UCP) have been utilized by the WebLogic Server GridLink Data Source implementation to provide the Fast Connection Failover (FCF), Runtime Connection Load-Balancing (RCLB),

The active management of the connections in the pool is based on static settings configured on the connection pool itself (min/max capacity, timeouts, etc.) and real time information the connection pool receives from the RAC Oracle Notification Service (ONS) subsystem that advises the "client" of any state changes within the RAC cluster.

WebLogic GridLink Data Sources and JDBC connection pools leverage the load balancing functionality provided by an Oracle RAC database to provide better throughput and more efficient use of resources.

## 1.4 Introduction

FLEXCUBE is a financial application which needs fast connection failover on runtime to ensure zero downtime and proper disaster recovery.

FLEXCUBE will use GridLink data source for Fast Connection Failover and responds to Oracle RAC events using Oracle Notification Service (ONS). This ensures that the connection pool in the GridLink data source contains valid connections (including reserved connections) without the need to poll and test connections. It also ensures that connections are created on new nodes as they become available.

A GridLink data source uses Fast Connection Failover to:

- Provide rapid failure detection.
- Abort and remove invalid connections from the connection pool.
- Perform graceful shutdown for planned and unplanned Oracle RAC node outages. See Graceful Handling for Oracle RAC Outages.



- > Adapt to changes in topology, such as adding or removing a node.
- Distribute runtime work requests to all active Oracle RAC instances, including those rejoining a cluster.

WebLogic GridLink Data Sources and JDBC connection pools leverage the runtime load balancing functionality provided by an Oracle RAC database to provide better throughput and more efficient use by FLEXCUBE application.

Runtime connection load balancing provides the following benefits:

- > Manages pooled connections for high performance and scalability.
- Receives continuous recommendations on the percentage of work to route to database instances.
- Adjusts distribution of work based on different back-end node capacities such as CPU capacity or response time.
- Reacts quickly to changes in cluster reconfiguration, application workload, overworked nodes, or hangs.
- Receives metrics from the Oracle RAC Load Balance by ONS. Connections to well performing instances are used most often. New and unused connections to underperforming instances will gravitate away over time.

## 1.5 Database Related Configuration

### 1.5.1 ONS Setup

Make Sure ONS service is running in each of the database servers by issuing the below command.(To be run from GRID home)

ONS Status Check:

\$ORACLE\_HOME/opmn/bin/onsctl ping ons is not running ...

Starting ONS:

\$ORACLE\_HOME/opmn/bin/onsctl start onsctl start: ons started \$ORACLE\_HOME/opmn/bin/onsctl ping ons is running ...

By default ONS runs on port 6200.

#### 1.5.2 Database Service Modification and Monitoring

For the database service that we use in the Datasource which makes use of Active Grid Link, goal needs to be defined which defaults to none.

The below sql block needs to be run in the database where the service is created.



```
BEGIN
DBMS_SERVICE.MODIFY_SERVICE ( service_name => 'psrcbt'
, aq_ha_notifications => true
, goal => DBMS_SERVICE.GOAL_THROUGHPUT
, clb_goal => DBMS_SERVICE.CLB_GOAL_SHORT
);
END;
```

Also we can monitor the metric generation for our service via v\$servicemetric

## 1.6 Configuring GridLink Datasource

## 1.6.1 Non-XA Gridlink Datasource

1) Navigate to Domain  $\rightarrow$  Services  $\rightarrow$  Data Sources  $\rightarrow$  select New > GridLink data source

Thange Center	🙆 Home Log Out Preferences 🔤	Record Help	Q		Welcome, webk	ogic Connected to: bifoundation_dom
View changes and restarts	Home >Summary of JDBC Data Sour	om				
No pending changes exist, Click the Release	Summary of JDBC Data Sources					
Configuration button to allow others to edit the domain.	Configuration Monitoring					
Lock & Edit						
Release Configuration	A JDBC data source is an object boo database connection from a data so	nd to the JNDI tree that	t provides database connectivity through a p	ool of JDBC connections. Applications can loo	ok up a data source on t	he JNDI tree and then borrow a
omain Structure	This page summarizes the JDBC dat		ave been created in this domain.			
Domain Partitions	& Customize this table					
feantation_domain  Probable Parbitions Promain Parbitions Provide Parbitions Provide Parbitices	Customize this table Data Sources (Filtered - More C		· Englisher			Showing 1 to 7 of 7 Previous   Next
Domain Parbtions     Finkronment     Deployments     Services     Messaging	Data Sources (Filtered - More C	olumus Exist) Type	JNDI Name	Targets	Scope	Showing 1 to 7 of 7 Previous   Next Domain Partitions
Comain Partitions Environments Performents Services B Messaying Data Sources Provident Stores Foreign JRDD Providers Work Centexts	Data Sources (Filtered - More C		JNDI Name jdbc/BIPlatformDatasource	Targets bi_duster	Scope	
Comain Partitions Environment Copilorments Services Messaging Massaging Massaging Mathematical Stores Messalent Stores Messalent Stores	Data Sources (Filtered - More C New M. Delete Generic Data Source GridLink Data Source	Туре		1000000		
Domain Parbons Environments Sentress Billessaging Potal Sources Provident Sources Provident Sources Provident Diverses "Valle Registries "Valle Context Valle Registries SCOM	Data Sources (Filtered - More C Mex V Deleter Generic Data Source GridLink Data Source Multi Data Source Urce	Type Generic	jdbc/80PlatformDatasource	bi_cluster	Global	
Contain Particlos     Finknannert      Deployments     Services     Persusained     Persusained     Sitessaine     Persusained Stores     Franksained     Persusained Stores     Finknannert     VML Registris     TVML Registris     TVML Registris     TVML Registris     TVML Registris     TVML Registris     TVML Registris	Data Sources (Filtered - More C New V Delete Generic Data Source Molt Data Source Proxy Data Source UCP Data Source UCP Data Source	Type Generic Generic	jdbc/00PlatformDatasource jdbc/LocalSvcTblDataSource	bi_cluster AdminServer	Global Global	
Comain Particions - Tenvisonment Deployments - Services 8) Hessigning - Data Sources - Provisionit Stares - Foreign J100 Provides - Work Contents - Volt, Registriss - Volt, Contents - Volt, Contents - Sources - Sources	Data Sources (Filtered - More C New V Delete Generic Data Source Molt Data Source Proxy Data Source UCP Data Source UCP Data Source	Type Generic Generic Generic	jdbc/BEPlatformDatasource jdbc/LocalSvcTblDataSource jdbc/mds/owsm	bi_cluster AdminServer AdminServer, bi_cluster	Global Global Global	
Domain Particles     Portain Particles     Provisionment     Deployments     S-virces     D'Hessigning     Deba Sources     Porsialent Gares	Data Sources (Filtered - More C Neary Delinia Generic Data Source Generic Data Source Nulls Data Source Prov Data Source UP Data Source Depratorh-Dato	Type Generic Generic Generic Generic	jdbc/00PlatformDatasource jdbc/LocalSvcTblDataSource jdbc/mds/owsm jdbc/AuditAppendDataSource	bi_cluster AdminServer AdminServer, bi_cluster AdminServer, bi_cluster	Global Global Global Global	



2) Enter the **Name**, **JNDI Name**. Choose Database Driver as Oracle's Driver (Thin) for GridLink Connection. Click on **Next** 

Release Configuration	JDBC GridLink Data Source Properties The following properties will be used to identify your new JDBC GridLink data source.				
Domain Structure	* Indicates required fields				
bifoundation_domain Domain Partitions Definitions Definitions Deployments	What would you like to name your new JDBC GridLink data source?				
B-Services	dਊ * Name: jdbc/fcjdevDS				
Messaging     Tata Sources     Persistent Stores	What scope do you want to create your data source in ?				
Foreign JNDI Providers	Scope: Global *				
Work Contexts XI4L Registries XI4L Entity Caches	What JNDI name would you like to assign to your new JDBC GridUnk data source?				
jCOM	€ JNDI Name:				
How do L	jdbc/fcjdevDS				
Create JDBC GridLink data sources					
System Status 🖂					
Health of Running Servers	What database type would you like to select?				
Failed (0) Critical (0)	Database Type: Orade				
Overloaded (0)	What database driver would you like to use to create database connections? Note: " indicates that the driver is explicitly supported by Oracle WebLogic Server.				
Warning (0) OK (2)	Database Driver: *Oracle's Driver (Thin) for GridLink Connections; Versions:Any				
	Tracki Navil Humini Icanati				

3) Uncheck the "Supports Global Transactions" and click on Next

ORACLE WebLogic Server A	dministration Console 12c		9
Change Center	🏦 Home Log Out Preferences 🐼 Record Help	Q	Welcome, weblogic Connected to: bifoundation_domain
View changes and restarts	Home >Summary of JDBC Data Sources		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Create a New JDBC GridLink Data Source           Back         Next         Finish         Cancel		
Release Configuration	Transaction Options You have selected non-XA JDBC driver to create database	e connection in your new data source.	
Domain Structure	Does this data source support global transactions? If yes,	please choose the transaction protocol for this dat	a source.
bifoundation_domain + Domain Partitions Derivironment	Supports Global Transactions		2/17/2/20 
DeploymentsServicesMessagingData SourcesPersistent Stores	Select this option if you want to enable non-XA JDBC conn Emulate Two-Pbase Commit.	nections from the data source to participate in glob	al transactions using the Logging Last Resource (LLR) transaction optimization. Recommended in place of
Foreign INDI Providers 	Select this option if you want to enable non-XA JDBC conn conditions.	nections from the data source to emulate participat	ion in global transactions using JTA. Select this option only if your application can tolerate heuristic
	Select this option if you want to enable non-XA JDBC conn can participate in the global transaction.	nections from the data source to participate in glob	al transactions using the one-phase commit transaction processing. With this option, no other resources
How do I	<ul> <li>And a state of the state of the</li></ul>		
Create JDBC GridLink data sources	One-Phase Commit		
System Status	Back Next Finish Cancel		
Health of Running Servers			
Failed (0) Critical (0)			

4) Select first option "Enter individual listener information" and click Next

ORACLE WebLogic Server Ad	Iministration Console 12c	Q
Change Center	🙆 Home Log Out Preferences 🐼 Record Help	Welcome, weblogic Connected to: bifoundation_domain
View changes and restarts	Home >Summary of JDBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JDDC GridLink Data Source           Back         Itent         Finitity         Cancel           GridLink data source connection Properties Options         Vou can either enter the conjulete IDEC URL or enter individual host and port pair and let the assistant generate the IDEC URL.	
Domain Structure bifoundation_domain @ Decomain Partitions # Proving Partitions # Decomposition # Decompositio	Enter undividual listener information     Enter complete JDBC URL     Back Itent Frank Cance	
now do I		

5) Enter the Database Name, Host Name, Port, User Name, Password, Confirm Password and Click on **Next** 



	Define Connection Properties.	
Domain Structure	What is the service name of the database you would like	to connect to?
bifoundation_domain   Domain Partitions  Constructions	Service Name:	
Topployments     Services     Britessaging     Hoats Sources     Porsistent Stores     Work Contexts     Work Contexts     Work Contexts     Work Contexts     Typle, Entry Caches     Typle, Entry Caches     Typle, Entry Caches     Topoly	Enter host and port of each listener separated by colon a Host and Port:	nd click the add button. In the case of a RAC DB listener, specify the SCAN address.
How do I 😑		
Create JDBC GridLink data sources	What database account user name do you want to use to	create database connections?
System Status 😑	Database User Name:	
Health of Running Servers	What is the database account password to use to create	database connections?
Failed (0) Critical (0)	Password:	
Overloaded (0) Warning (0) OK (2)	Confirm Password:	
08(2)	Additional Connection Properties:	
	Protocol:	TCP
	oracle.jdbc.DRCPConnectionClass:	
	Back Next Finish Cancel	

6) Click "Test All Listners" and check the connection is established properly with the database and Click **Next** 

Change Center	un nome Log Out Preferences in Record	neip	4	weicome, weblogic   connected to: biloundation_domain
View changes and restarts	Home >Summary of JDBC Data Sources			
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages Connection test for jdbc:oracle:thin:@( succeeded.	SESCRIPTION=(ADDRES	55_LIST=(ADDRESS=(PROTOCO	=TCP)(HOST=blrgxr6117.in.oracle.com)(PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=FCUB511G)))
Lock & Edit	Create a New JDBC GridLink Data Source	e		
Release Configuration	Test All Listeners Back Next Fini	sh Cancel		
Domain Structure	Test GridLink Database Connection			
bifoundation_domain	Test the database availability and the con	ection properties you pr	rovided.	
Deployments	What is the full package name of JDBC drive	r class used to create da	atabase connections in the conn	ection pool?
⊡-Services ⊡-Messaging Data Sources	(Note that this driver class must be in the cl	asspath of any server to	which it is deployed.)	
Persistent Stores Foreign JNDI Providers	Driver Class Name:		oracle.jdbc.OracleDriver	
	What is the URL of the database to connect URL: jdbc:oracle:thin:@(DESCRIPTIC (ADDRESS_LIST=(ADDRESS=(PROTC	N=	RL varies by JDBC driver.	
How do I	(HOST=blrgxr6117.in.oracle.co			
Create JDBC GridLink data sources	(PORT=1521)))(CONNECT_DATA= (SERVICE_NAME=FCUBS11G)))	•		
System Status 🖂	Click the test button to test each listener.			
Health of Running Servers	Test Listener jdbc:oracle:thin:@(DESCRIF	TION=(ADDRESS_LIST=	=(ADDRESS=(PROTOCOL=TCP)(	HOST=blrgxr6117.in.oracle.com)(PORT=1521)))(CONNECT_DATA=(SERVICE_NAME=FCUBS11G)))
Failed (0) Critical (0)	What database account user name do you w	ant to use to create data	abase connections?	
Overloaded (0) Warning (0)	Database User Name:		FCUBSNBESUP	
OK (2)	What is the database account password to u	se to create database c	onnections?	



7) Enter the ONS host:port details which has already been configured in database

To period changes exist. Crick the Kerease Configuration button to allow others to edit the domain.	Back Next Finish Cancel					
Release Configuration	ONS Client Configuration Define ONS Client Configuration					
Domain Structure bifoundation_domain   Denamin Partitions  Deployments Deployments	Check to enable the data source to subscribe to and	•				
Composition     Composition     Composition     Contract     Cont	Enter host and part of each ONS node separated by ONS host and port:	celon and click the add button. mc 13dbzg1-zone-1-mc 13-n1 6200 mc 13dbzg1-zone-1-mc 13-n2:6200	Fantore v			
How do I 🖂 • Create JDBC GridLink data sources	The location of the Oracle wallet file in which the SS ONS Wallet File Directory:	5L certificates are stored.				
System Status 🖂						
Health of Running Servers	The wallet password attribute that is included as pa	rt of the ONS client configuration string. This attribute is o	nly required when ONS is configured to use the SSL protocol.			
Failed (b) Critical (b) Overloaded (b) Warning (c) OK (2)	ONS Wallet Password: Confirm ONS Wallet Password: Back Next) Finish Cancel					

8) Click "Test ONS Nodes" to check the connection with ONS.

WebLogic Server A	inininsiaalion console 120
Change Center	🏦 Home Log Out Preferences 🗠 Record Help
View changes and restarts	Home >Summary of JDBC Data Sources
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages & Connection test for mc13dbzg1-zone-1-mc13-n1:6200 succeeded.
Lock & Edit	Create a New JDBC GridLink Data Source
Release Configuration	Test ALONS Nodes Back Next Finish Cancel
Domain Structure	Test ONS client configuration
bifoundation_domain	Test the ONS client configuration properties you provided
Domain Partitions     Deployments     Services	Check to enable the data source to subscribe to and process Oracle FAN events
Services     Messaging	✓ PAN Enabled
Data Sources Persistent Stores Foreign JNDI Providers	Enter host and port of each ONS node separated by colon and click the add button. ONS host and port:
Work Contexts     Walk Registries     Walk Entity Caches     '-'jCOM     '-'Mail Sessions	mc13dbzg1-zone-1-mc13- n1:6200,mc13dbzg1-zone-1-mc13-n2:6200
How do I	
Create JDBC GridLink data sources	Click the test button to test ONS node.
	Test ONS Node mc13dbzg1-zone-1-mc13-n1:6200
System Status 😑	Test ONS Node mc13dbzg1-zone-1-mc13-n2:6200
Health of Running Servers	The location of the Oracle wallet file in which the SSL certificates are stored.
Failed (0) Critical (0) Overloaded (0)	ONS Wallet File Directory:
Warning (0) OK (2)	The wallet password attribute that is included as part of the OHS client configuration string. This attribute is only required when ONS is configured to use the SSL protocol.



#### 9) Select Target and click on Finish

	Administration Console 12c	Q
Change Center View changes and restarts	Home Log Out Preferences Record Help     Wekome, weblogic     Connected to: bi Home -Summary of JDBC Data Sources	ifoundation_domain
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Greate a New JDBC GridLink Data Source         Back       Next         Back       Next         Select Targets         You can set on our more targets to deploy your new JDBC data source. If you don't select a target, the data source will be created but not deployed. You will need to deploy the data source at	a later time.
Domain Structure           bifoundation, domain                Ornain Pattoins                Ornain Pattoin	Servers  AdminServer  Custers  b cluster  All servers in the cluster  Part of the cluster  b _server1	
How do I	Back, Next Finish, Cancel	
Create JDBC GridLink data sources System Status		

### 1.6.2 XA Gridlink Datasource

1) Navigate to Domain  $\rightarrow$  Services  $\rightarrow$  Data Sources  $\rightarrow$  select New > GridLink data source

Change Center	A Home Log Out Preferences	Record Help	Q		Welcome, web	logic Connected to: bifoundation_doma
View changes and restarts	Home >Summary of JDBC Data 5	Sources				
No pending changes exist. Click the Release	Summary of JDBC Data Sources					
Configuration button to allow others to edit the domain.	Configuration Monitoring					
Lock & Edit						
Release Configuration	A 3DBC data source is an object database connection from a dat	bound to the JNDI tree that	t provides database connectivity through a p	ool of JDBC connections. Applications can loo	k up a data source on	the JNDI tree and then borrow a
Domain Structure			ave been created in this domain.			
Deployments						
Services B-Nessaging Data Sources	Data Sources (Filtered - Mor	re Columns Exist)		1	1	Showing 1 to 7 of 7 Previous   Next
Services B-Hessaging Data Sources Persistent Stores	New  Delete Generic Data Source	re Columns Exist)	JNDI Name	Targets	Scope	Showing 1 to 7 of 7 Previous   Next Domain Partitions
Services B+Ressaging Data Sources Porsistent Stores Foreign JNDI Providers Work Contexts	New > Delete		JNDI Name Jdbc/00PlatformDatasource	Targets bi_cluster	Scope	Investore and the I
Services Data Sources Previsitent Stores Foreign JNDI Providers Work Contexts XVII. Registries	New  Delete Generic Data Source GridLink Data Source	Туре		100000	1.000	Investore and the I
⇒ Services ⊕ Hessaging Parts Stores Previsited Stores Foreign NAC Fonders ~Work Contexts >>04. Reptivies ~>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	New Delete Generic Data Source GridLink Data Source Multi Data Source	Type Generic	jdbc/BIPlatformDatasource	bi_cluster	Global	Investore and the I
G Services B Hessaging Data Sources → Persistent Stores → Foreign JUD Providers → Work Contracts → 204, Registries → 204, Registries → 204, Registries → 204, Registries → 204, Registries → 204 → Mull Sessions	New Colore Generic Data Source GridLink Data Source Multi Data Source Proxy Data Source urce	Type Generic Generic	jdbc/BIPlatformDatasource jdbc/LocalSvcTblDataSource	bi_cluster AdminServer	Global Global	Investore and the I
Services     Britessaging     Data Sources     "President Stores     "Foreign NDI Providers     "Work Controts     "XNR. Registries     "XNR. Registries     "XNR. Registries     "CON     "Hall Sextions     "Nall	Newry Deleter Generic Data Source GridLink Data Source Multi: Data Source Proxy Data Source UCP Data Source	Type Generic Generic Generic	jdbc/BIPlatformDatasource jdbc/LocalSvcTblDataSource Jdbc/mds/ewsm	bi_cluster AdminServer AdminServer, bi_cluster	Global Global Global	Investore and the I
Services B-Hessaging D-Lat Sources Pervised Stores Foreign XRDI Provides Work Controls Work Controls Viol Registries Viol Reg	New V Delete Generic Data Source GridLink Data Source Proxy Data Source UCP Data Source UCP Data Source Bigs audit Datas	Type Generic Generic Generic Generic	jdbc/BLP1atformDatasource jdbc/BLP1atformDatasource jdbc/BLocalSvcTblDataSource jdbc/AuditAppendDataSource	bi_cluster AdminServer AdminServer, bi_cluster AdminServer, bi_cluster	Global Global Global Global	Investore and the I
G Services B Hessaging Data Sources → Persistent Stores → Foreign JUD Providers → Work Contracts → 204, Registries → 204, Registries → 204, Registries → 204, Registries → 204, Registries → 204 → Mull Sessions	New V         Deckin           Generic Data Source         Gridlink Data Source           Multi Data Source         Urce           Proxy Data Source         Urce           UCP Data Source         urce           UCP Data Source         erce           upp Source         erce           upp Source         erce           upp Source         erce	Type Generic Generic Generic Generic Generic	Jdbc/UIPlatformDatasource Jdbc/LucalSxTNDataSource Jdbc/LucalSxTNDataSource Jdbc/AuditAppendDataSource Jdbc/AuditViewDataSource	bi_duster AdminServer AdminServer, bi_duster AdminServer, bi_duster AdminServer, bi_duster	Global Global Global Global Global	Investore and the I



2) Enter the **Name**, **JNDI Name**. Choose Database Driver as Oracle's Driver (XA Thin) for GridLink Connection. Click on **Next** 

Domain Structure	The following properties will be used to identify your new JDBC GridLink data source. * Indicates required fields				
bifoundation_domain	What would you like to name your new JDBC GridLink data source?				
Deployments	d∰ * Name: jdbc/fcjSchedulerDS				
-Messaging -Data Sources	What scope do you want to create your data source in ?				
Foreign JNDI Providers Work Contexts	Scope: Global V				
XML Registries XML Entity Caches 	What JNDI name would you like to assign to your new JDBC GridLink data source?				
How do I	jdbc/fcjSchedulerDS				
Create JDBC GridLink data sources					
System Status 🖂					
Health of Running Servers	What database type would you like to select?				
Failed (0)           Critical (0)           Overloaded (0)	Database Type:         Oracle           What database driver would you like to use to create database connections? Note: * indicates that the driver is explicitly supported by Oracle WebLogic Server.				
Warning (0) ОК (2)	Database Driver:         *Oracle's Driver (Thin XA) for GridLink Connections Versions:Any				
	Back Next Finish Cancel				

#### 3) Click Next

ORACLE WebLogic Server A	dministration Console 12c		<u>Q</u>
Change Center	🙆 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: bifoundation_domain
View changes and restarts	Home >Summary of JDBC Data Sources		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration Domain Structure	Create a New JDBC GridLink Data Source  DBck Intext Transaction Options  Transaction Options  You have elected an XJ DBC driver to use to create database connection in your new data source. The data source will support global transactions and use the Two-Phase Commit global to Romer and the Source will support global transactions and use the Two-Phase Commit global to Romer and Rome		
bifoundation_domain	Back, Next Frink Cancel		

#### 4) Choose first option "Enter individual listener information" and Click Next

ORACLE WebLogic Server A	🔒 Home Log Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: bifoundation domain
Change Center	Home -Summary of JOBC Data Sources	receive, receive a biodisation_donain
View changes and restarts		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Create a New JOBC GridLink Data Source           Dack         Mext         Finish         Cancel           GridLink data source connection Properties Options         You can either enter the complete JDBC URL or enter individual host and port pair and let the assistant generate the JDBC URL	
Domain Structure	Enter individual listence information	
Isfoundation_domain	Enter complete 306C URL     Back Next From Cancel	



5) Enter the Database Name, Host Name, Port, User Name, Password, Confirm Password and Click on **Next** 

	Define Connection Properties.		
Domain Structure	What is the service name of the database you would like to connect to?		
bifoundation_domain	what is the service nume of the database you would in		
Domain Partitions	Service Name:		
-Environment			
Deployments			
□ Services	Enter host and port of each listener separated by colon and click the add button. In the case of a RAC DB listener, specify the SCAN address.		
Hessaging	Host and Port:		
····Data Sources	nost and Port:	Add	
····Persistent Stores			
Foreign JNDI Providers			
Work Contexts			
XML Registries		Remove	
-jCOM			
Mail Sessions			
How do I 🖃			
Create JDBC GridLink data sources	What database account user name do you want to use to create database connections?		
	Database User Name:		
System Status	Database User Name:		
System Status 🖂			
Health of Running Servers	What is the database account password to use to creat	e database connections?	
Failed (0)	Password:		
Critical (0)			
Overloaded (0)			
Warning (0)	Confirm Password:		
OK (2)			
	Additional Connection Properties:		
	Protocol:	ТСР	
	oracle.jdbc.DRCPConnectionClass:		
	Back Next Finish Cancel		

6) Click "Test All Listners" and check the connection is established properly with the database and Click **Next** 

hange Center	an owne wy our reservices to receive new		weicome, weavogic   connected to: provindation_uoman	
View changes and restarts	Home >Summary of JDBC Data Sources			
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages @ Connection test for jdbcsoracle:thin:@(DESCRIPTION=(Af succeeded.	DORESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=blrgs	6117.in.oradie.com/(PORT+1521)))(CONNECT_DATA+(SERVICE_NAME+FCUBS11G)))	
Lock & Edit	Create a New JDBC GridLink Data Source			
Release Configuration	Test Al Listeners Back Next Finish Cancel			
Domain Structure				
ifoundation_domain	Test GridLink Database Connection			
R-Domain Partitions Test the database availability and the connection properties you provided.				
Environment Deployments	What is the full package name of JDBC driver class used to create database connections in the connection pool?			
B-Services	White that this drive data must be in the descends of second	(Note that this driver class must be in the classpath of any server to which it is deployed.)		
(D) Messaging	(were that this unver class must be in the classpath of any ser-			
Data Sources				
Persistent Stores Foreign 3NDI Providers	Driver Class Name:	oracle.jdbc.OracleDriver		
XML Registries		are one range of sect and a		
XHL Entity Caches	URL:			
-јсом	jdbc:oracle:thin:@(DESCRIPTION= -			
Mail Sessions	(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)			
tow do I	(HOST=blrgxr6117.in.oracle.com) (PORT=1521)))(CONNECT_DATA=			
Create JDBC GridLink data sources	(SERVICE_NAME=FCUBS11G))) *			
System Status 🖂	Click the test button to test each listener. Test Listener. Jdbcardet.him.#(CEEX.IPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)/HOST=bhgw6117/in.orade.com)/PORT=1521))/(CONBECT_DATA=(SERVICE_NAME=FCUBS11G)))			
Health of Running Servers				
Failed (0)	What database account user name do you want to use to create database connections?			
Critical (0)				
Overloaded (0) Warning (0)	Database User Name:	FCUBSNBESUP		
OK (2)	What is the database account password to use to create database connections?			



7) Enter the ONS host:port details which has already been configured in database

no perioring changes exists, unce the Release Configuration button to allow others to edit the domain. Lock & Edit Release Configuration	Back, Next, Finish Cancel ONS Client Configuration Define OIIS Client Configuration		
Domain Structure	Check to enable the data source to subscribe to and process Oracle FAN events		
bifoundation_domain	circle to ensure the user source to subscribe to and process oracle rink events		
Domain Partitions     Environment			
Deployments	Enter host and port of each ONS node separated by colon and click the add button.		
-Messaging     -Data Sources     -Persistent Stores	ONS host and port:		
Foreign JDD Providers     Work Contexts     Work Contexts     Work Contexts     Work Contexts     With Entity Caches     Will Entity Caches     UOM     Mail Sessions	mc13dbzg1-zone-1-mc13-n2-6200 mc13dbzg1-zone-1-mc13-n2-6200		
How do I	The location of the Oracle wallet file in which the SSL certificates are stored.		
Create JDBC GridLink data sources			
System Status	ONS Wallet File Directory:		
Health of Running Servers	The wallet password attribute that is included as part of the ONS client configuration string. This attribute is only required when ONS is configured to use the SSL protocol.		
Failed (0) Critical (0)	ONS Wallet Password:		
Overloaded (0) Warning (0)	Confirm ONS Wallet Password:		
OK (2)	Back Next Finish Cancel		

#### 8) Click "Test ONS Nodes" to check the connection with ONS.

City CEC Webbogic Server Au		<u> </u>	
Change Center	😰 Home Log Out Preferences 🔤 Record Help	Welcome, weblogic Connected to: bifoundation_doma	
View changes and restarts	Home >Summary of JDBC Data Sources		
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.	Messages		
Lock & Edit	Create a New JDBC GridLink Data Source		
Release Configuration	Test AII ONS Nodes Back Next Finish Cancel		
Domain Structure	Test ONS client configuration		
bifoundation_domain	Test the ON5 client configuration properties you provided		
Environment	Check to enable the data source to subscribe to and process Oracle FAIN events		
Deployments Services Messaging			
Data Sources Persistent Stores Foreign JNDI Providers	Enter host and port of each ONS node separated by colon and click the add button.		
	vrs nos ang por: mc13dbg1zone=1-mc13- n1:6200,mc13dbg1-zone=1-mc13-n2:6200 ↓		
How do I			
Create JDBC GridLink data sources	Click the test button to test ONS node. Test ONS Node mc13duzg1-zone-1-mc13-n1:6200		
System Status 🖂	Test ONS Node mc13dbzg1-zone-1-mc13-n2:6200		
Health of Running Servers	The location of the Oracle wallet file in which the SSL certificates are stored.		
Failed (0) Critical (0) Overloaded (0)	ONS Wallet File Directory:		
Warning (0) OK (2)	The wallet password attribute that is included as part of the ONS client configuration string. This attribute is only required when O	NNS is configured to use the SSL protocol.	



#### 9) Select Target and click on Finish

	dministration Console 12c	Q
Change Center	🏫 Hame Lag Out Preferences 🖾 Record Help	Welcome, weblogic Connected to: bifoundation_domain
View changes and restarts	Home >Summary of 3DBC Data Sources	
No pending changes exist. Click the Release Configuration button to allow others to edit the domain. <u>Lock &amp; Edit</u> Release Configuration	Create a New JDBC GridLink Data Source           Back         Wert         Phinh         Cancel           Select Targets	
Domain Structure	You can select one or more targets to deploy your new JDBC data source. If you don't select a target,	the data source will be created but not deployed. You will need to deploy the data source at a later time.
Elfoundation_domain - H*-Domain Partitions - H*-Dealloyments - *-Dealloyments - *-Dealloyments - *-Dealloyments - *-Dealloyments - *-Cate Sources - **Cores - **Core -	Servers  Clusters  Luster  Luster  Luster  Luster  Servers in the cluster  Server the cluster  Luster  Luster	
Mail Sections	Back Next Finish Cancel	
How do I    Create JDBC GridLink data sources  System Status		





FCUBS Gridlink Datasource Configuration [November] [2020] Version 14.4.0.2.0

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