# Oracle® Banking Payments Payments Installation Checklist



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ORACLE

Oracle Banking Payments Payments Installation Checklist, Release 14.7.0.0.0

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## 1 Preface

- Purpose
- Audience
   This manual is intended for the following User/User Roles:
- Documentation Accessibility
- Critical Patches
- Diversity and Inclusion
- Conventions

### Purpose

This guide is designed to help acquaint you with the Oracle Banking Payments application. This guide provides answers to specific features and procedures that the user need to be aware of the module to function successfully.

### Audience

This manual is intended for the following User/User Roles:

#### Table 1-1 User Roles

Role	Function
Implementation & IT Staff	Implementation & Maintenance of the Software

### **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

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### **Critical Patches**

Oracle advises customers to get all their security vulnerability information from the Oracle Critical Patch Update Advisory, which is available at Critical Patches, Security Alerts and Bulletins. All critical patches should be applied in a timely manner to make sure effective security, as strongly recommended by Oracle Software Security Assurance.



### **Diversity and Inclusion**

Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

### Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

## 2 Payments Installation Checklist

Checklist for Installation on WebLogic Server

### Checklist for Installation on WebLogic Server

Below are the list of steps to validate Server Configuration post successful installation of Oracle Banking Payments:

- 1. Check the WebLogic version, JDK version on the Application server and Oracle Client version. The versions should be as per the latest certified version specified in the Release document.
- 2. Below WebLogic, parameters should be checked as part of Oracle Banking Payments Installation for the WebLogic Domain created.
  - a. Under Domain--> Configuration Tab --> Web Applications
  - Options 'JSP Compiler Backwards Compatible' and 'Archived Real Path Enabled' should be checked
- 3. Missing Server Id setup at server start-up for single server or cluster installations. Identify the Managed Server in which the Application EAR is deployed
  - a. Login to the WebLogic Console
  - b. Navigate to Environment --> Servers
  - c. From the List of Servers, locate and click on the Managed Server in which the Application EAR is deployed

#### Figure 2-1 Managed Server

← → C ③ Not secure   10.1	.84.155.73:4001/console/console.portal?_nfpb=tru	e&_pageLabel=CoreServe	erServerTablePage				Ŕ
DRACLE WebLogic Server Ad	Iministration Console 12c						
Thange Center	A Home Log Out Preferences 🐼 Record Help	٩					Welcome, pmint
View changes and restarts	Home >Summary of Deployments >Summary of Servers >Sur	mmary of JDBC Data Sources >jdbc)	fcjdevDS >Summary of Deployments	>Summary of Servers			
Dick the Lock & Edit button to modify, add or delete items in this domain.	Summary of Servers						
Lock & Edit	Configuration Control						
Release Configuration	A server is an instance of WebLogic Server that runs in	its own Java Virtual Machine (JV	M) and has its own configuration.				
Jomain Structure	This page summarizes each server that has been config	ured in the current WebLogic Se	rver domain.				
M142 A							
Domain Partitions	62						
Servers     Coherence Clusters     Coherence Clusters     Resource Groups     Resource Group Templates	Customize this table Servers (Filtered - More Columns Exist) Click the Lock & Edit butt in in the Change Center to a	activate all the luttons on this pa	ige.				
Machines Virtual Hosts	New Clone Delete Click the Managed						Showing 1 to 3
Virtual Targets Work Managers	□ Name	Туре	Cluster	Machine	State	Health	Listen Port
Resource Management	Admin142(admin)	Configured			RUNNING	✓ OK	4001
iow do L	ServerU1	Configured		Machine1	RUNNING	✓ OK	4010
	ServerU2	Configured		Machine1	RUNNING	✓ OK	4024
Create Managed Servers Clone servers	New Clone Delete						Showing 1 to 3
Delete Managed Servers							
prove the seminoredult beiver							

Verifying Arguments for Reference Number Generation

a. After clicking the Managed Server, navigate to 'Server Start' tab under the 'ConfigurationTab'



- b. Verify the Arguments as shown below:
   -Dserver.id=1
- c. In case of cluster setup, each managed server, which is part of the cluster where the application is deployed, should have a different server id.
   For eg for Managed server, "Server1" the value should be given as

#### -Dserver.id=1

For Managed server Server2, the value should be given as

#### -Dserver.id=2

Different values can be given for managed server upto 99.

#### Note:

Parameter '-Dserver.id=1' is required for the Reference Number Generation in Oracle Banking Payments Transaction screens. If not set, Oracle Banking Payments Transaction screens on launch will report Error on click of NEW.

#### Figure 2-2 Server Start

BugDB Oracle Link SWIFT	Learn 🛅 JIRA 🛅 🕻	Dracle Link	B OBPM	Link 🛅 UM	MISC														
ORACLE WebLogic Server	dministration Console	12c																	Ç
Change Center	Home Log Out I	Preferences	Record	Help	1	Q										Welcome	weblogic Ca	onnected	to: WEURO
View changes and restarts	Home >Summary of	Servers >Su	nmary of Depic	oyments >Summe	ry of Servers :	FlexcubeGerver	Summary of	Servers >FI	excubeServ	er.									
Configuration editing is enabled. Future	Settings for Flexcu	beServer																	
modify, add or delete items in this domain.	Configuration F	Protocols	ogging De	bug Monitorin	g Control	Deployments	Services	Security	Notes				2						
Domain Structure	General Cluster	Services	Keystores	SSL Federa	tion Services	Deployment	Migration	Tuning	Overload	Concurrency	Health Monitoring	Server Star	Web Service	s Coherence					
WEUROPE A	Save																		
Environment     Servers     Oclusters	Node Manager is a	WebLogic S	erver utility th	at you can use t	o start, suspe	end, shut down,	and restart s	ervers in no	rmal or une:	pected conditio	ns. Use this page to	configure the star	tup settings that	Node Manager	will use to sta	rt this server on a	remote machin	e.	
- Coherence Clusters Resource Groups - Resource Group Templates	Java Home:											The Java ho Info	me directory (pa	th on the machi	ne running No:	de Manager) to us	e when starting	this ser	ver. More
Virtual Hosts Virtual Targets	Java Vendor:											The Java Ve	ndor value to us	e when starting	this server.	More Info			
-Concurrent Templates	BEA Home:											The BEA hor Info	ne directory (pat	h on the machin	e running Nod	e Manager) to use	when starting	this serv	ver. More
How do I   Configure startup arguments for Managed	Root Directory:											The director Node Manag	y that this serves er. If you do not	uses as its roo specify a Root	t directory. Th Directory valu	is directory must l e, the domain dire	e on the comp ctory is used b	uter that y default	t hosts t. More
Servers Start Managed Servers from the Administration Console Shut down a server instance	Class Path:											The dasspa	h (path on the m	achine running	Node Manager	) to use when sta	rting this serve	r. More	a Info
System Status Health of Running Servers as of 11:45 AM																			
Paled (0)           Critical (0)           Overloaded (0)           Warring (0)           Oct (4)	Arguments: -Daerver.id	=1 - <u>Dweb</u>	logic.se	curity. <u>581</u>	.noice=t	rue						The argume	nts to use when	starting this ser	ver. More In	fo			

#### 4. JMS Load Balancing Configuration

For each of the Distributed Queue Connection Factory, disable the "Server Affinity" flag. This ensures that the messages get distributed uniformly across all the managed servers in a cluster.



Figure 2-3	Load Balance
------------	--------------

Change Center	😰 Home Log Out Preferences 🔤 Record Help	Q	Welcome, weblogic Connected to: j
View changes and restarts	Home >Summary of JMS Modules >PMJMSModule >ACCINT_	QCF	
Click the Lock & Edit button to modify, add or delete items in this domain.	✓ All changes have been activated. No restarts are nece	issary.	
Lock & Edit	Settings for ACCINT_QCF		
Release Configuration	Configuration Subdeployment Notes		
Domain Structure	General Default Delivery Client Transactions F	How Control Load Balance Security	
jms	Click the Lock & Edit button in the Change Center to mo	odify the settings on this page.	
D-Services	Save		
Messaging     "JMS Servers     "Store and Forward Agents     "	Use this page to define the load balancing configuration	parameters for this JMS connection factory, which inclu	des enabling load balancing and server affinity.
Padi Services ⊕-Bridges Data Sources	🗹 Load Balancing Enabled		Specifies whether non-anonymous producers created through a connection factory are load balanced within a distributed destination on a per-call basis. More Info
Persistent Stores     Foreign JNDI Providers     Work Contexts	Server Affinity Enabled		Specifies whether a server instance that is load balancing consumers or producers across multiple members destinations of a distributed destination, will first attempt to load balance across any other physical
How do I			destinations that are also running on the same server instance. More Info
Configure connection factories	Producer Load Balancing Policy:	Per-Member 🗸	The Producer Load Balancing Policy restricts where a JMS Message Producer can load balance its messages among members of a distributed destination (DD). More Info
System Status			deserves (sey, role most
Health of Running Servers as of 10:47 AM	Save		

 Non Transactional Datasource Configuration Datasource which do not have the "Supports Global Transactions" flag enabled are referred as Non-Transactional Datasource, as they do not come under the Container/ Server managed transactions.

#### Figure 2-4 Settings for jbdc/fcjdevDS

For such Datasources, the inactive connection timeout seconds must be configured to a positive value. This helps to avoid the Connection Leak scenario. The suggested value is 30 seconds.

#### Figure 2-5 Settings for jbdc/fcjdevDS

				The second				
Configura	tion Ta	argets N	Ionitoring	Contro	Security	Notes		
General	Connect	tion Pool	Oracle	ONS	Transaction	Diagnostics	Identity Options	
Click the	Lock & Ed	dit button i	」 in the Char	nae Cente	r to modify th	e settinas on ti	nis page.	
Save								
The copp	ection-poo	ol within a	JDBC data	source co	ontains a grou	p of JDBC conn	ections that applications reser	ve, use, and then return to the pool. The connection pool and the connections within
it are		nced —						
100 million 100	· · ····							
Use I								
Use t	Test Co	onnection	ns On Rese	erve				Enables WebLogic Server to test a connection before giving it to a client (Requires that you specify a Test Table Name.) More Info
Use f	Test Co	onnection	ns On Rese	erve	120			Enables WebLogic Server to test a connection before giving it to a client (Requires that you specify a Test Table Name.) More Info The number of seconds a WebLogic Server instance walts between
Use f	Test Co	onnection Jency:	ns On Rese	erve	120	1		Enables WebLogic Server to test a connection before giving it to a client (Requires that you specify a Test Table Name.) More Info The number of seconds a WebLogic Server instance waits between attempts when testing unused connections. (Requires that you specify a Test Table Name ) Connections that fail the test are closed and resonance
Use f	Test Co	onnection Jency:	ns On Rese	erve	120	1		Enables WebLogic Server to test a connection before giving it to a client (Requires that you specify a Test Table Name.) More Info The number of seconds a WebLogic Server instance waits between attempts when testing unused connections. (Requires that you specify a Test Table Name.) Connections that fail the test are closed and reopene re-establish a valid physical connection. If the test fails again, the
Use 1	Test Co	onnection Jency:	ns On Rese	arve	120	1		Enables WebLogic Server to test a connection before giving it to a client (Requires that you specify a Test Table Name.) More Info The number of seconds a WebLogic Server instance waits between attempts when testing unused connections. (Requires that you specify a Test Table Name.) Connections that fail the test are closed and reopene re-establish a valid physical connection. If the test fails again, the multiple connection requests in rapid successio
Use 1	Test Co	onnection Jency: ion Timeo	us On Rese	arve	30	l		Enables WebLogic Server to test a connection before giving it to a client (Requires that you specify a Test Table Name.) More Info The number of seconds a WebLogic Server instance waits between attempts when testing unused connections. (Requires that you specify a Test Table Name.) Connections that fail the test are closed and reopenee re-establish a valid physical connection. If the test fails again, the multiple connection requests in rapid successio The number of inactive seconds on a reserved.
Use 1	Test Co est Frequ Connectio	onnection Jency: ion Timec	us On Rese	erve	30	•		Enables WebLogic Server to test a connection before giving it to a client (Requires that you specify a Test Table Name.) More Info The number of seconds a WebLogic Server instance waits between attempts when testing unused connections. (Requires that you specify a Test Table Name.) Connections that fail the test are closed and response re-establish a valid physical connection. If the test fails again, the multiple connection requests in rapid successio The number of inactive seconds on a reserved Server reclaims the connection and releases it 1 pool. More Info

6. Transactional Datasources Configuration Datasource for which the "Supports Global Transactions" flag is enabled referred as Transactional Datasource, as they come under the Container/Server managed transactions.



#### Figure 2-6 Settings for jbdc-fcjdevDS\_GTXN

For such data sources ensure that "Logging Last Resource" option is selected.

#### Figure 2-7 Settings for jbdc-fcjdevDS\_GTXN

Gourat	tion	Targete	Monito	na	Contro	Cocurity	Notos						
igurau	tion	largets	MOHILO	ng	Contro	Security	Notes						
eral	Conn	ection Po	ol Ora	le	ONS	Transaction	Diagnostics	Identity Options					
			J										
the L	lock 8	& Edit butt	on in the	Chang	ge Cente	er to modify th	e settings on	his page.					
conne	ection	pool withi	n a JDBC	ata s	source co	ontains a grou	p of JDBC con	nections that applica	tions re	serve, u	se, and the	n return to the	pool
conne e crea	ection ated w	pool within hen the co	n a JDBC	lata s	source co s registe	ontains a grou red, usually w	p of JDBC con hen starting u	nections that applica o WebLogic Server o	itions re or when	serve, u deployir	se, and the g the data	n return to the source to a nev	pool N tar
conne e crea this i	ection ated w	pool within hen the co	n a JDBC Innection	lata s ool i	source co s registe	ontains a grou red, usually w	p of JDBC con hen starting u	nections that applica o WebLogic Server o	itions re or when	serve, u deployir	se, and the g the data	n return to the source to a nev	pool w tar
conne e crea this	ection ated w	pool within hen the co	n a JDBC	lata s oool i	source co is registe	ontains a grou red, usually w	p of JDBC con hen starting u	nections that applica o WebLogic Server o	itions re or when	serve, u: deployir	se, and the g the data	n return to the source to a new	pool w tar
conne e crea this I	ection ated w	pool within hen the co <b>Advan</b>	n a JDBC nnection	lata s ool i	source co is registe	ontains a grou red, usually w	p of JDBC con hen starting u	nections that applica o WebLogic Server o	itions re or when	serve, u deployir	se, and the g the data	n return to the source to a nev	pool. w tar
conne e crea this I	ection ated w	pool within hen the co <b>Advan</b> Test Co	n a JDBC Innection	ata s ool i	source co s registe Reserv	ontains a grou red, usually w	p of JDBC con hen starting u	nections that applica o WebLogic Server o	itions re or when	serve, u deployin	se, and the g the data	n return to the source to a nev	pool w tar
conne e crea this	ection ated w	pool within hen the co <b>Advan</b> Test Co	n a JDBC onnection ced nnectior	lata s bool i	source co is registe Reserv	ontains a grou red, usually w e	p of JDBC con hen starting u	nections that applica o WebLogic Server o	itions re	serve, u deployir	æ, and the g the data	n return to the source to a nev	pool w tar
conne e crea this I	ection ated w	pool within hen the co Advan Test Co	n a JDBC nnection ced	ata s ool i	source co is registe <b>Reserv</b>	ontains a grou red, usually w e	p of JDBC con hen starting u	nections that applica o WebLogic Server o	itions re	serve, u: deployir	æ, and the g the data	n return to the source to a nev	pool w tar
conne e crea this	ection ated w	pool within hen the co <b>Advan</b> Test Co	n a JDBC nnection	lata s bool ii	source co s registe <b>Reserv</b>	ontains a grou red, usually w	p of JDBC con hen starting u 10	nections that applica o WebLogic Server o	ntions re or when	serve, u deployir	se, and the g the data	n return to the source to a nev	pool w tar

"Inactive Connection Timeout" seconds must be set to 0. For the transactional Datasources as they participate in the container transaction, the timeout is governed by the JTA timeout seconds.

- 7. Data Source Setup Verification
  - a. Navigate to the Data Sources Configuration
  - b. Below Data Sources must be mapped in the Data Sources Configuration
    - i. Jdbc/fcjdevDS
    - ii. Jdbc/fcjdevDS\_GTXN
    - iii. Jdbc/fcjdevDS\_XA



- c. Additional Data Sources for Co-deployed
  - i. jdbc/fcjdevDS\_ASYNC

Change Center	Home Log Out Preferences 🖾 Reco	rd Help	Q			Welcome, pminfra
View changes and restarts	Home >Summary of JDBC Data Sources					
Click the Lock & Edit button to modify, add or	Summary of JDBC Data Sources					
delete items in this domain.	Configuration Monitoring					
Release Configuration	A IDBC data source is an object bound to	the JNDI tree that provides	database connectivity through a pool of JI	IBC connections. Applications can look up a data source on the JNDI tree	e and then borrow a database connect	ion from a data source.
Domain Structure	This page summarizes the 108C data sou	rce objects that have been o	created in this domain.			
M143 B-Domain Partitions B-Environment Deployments B-Environ	Customize this table Data Sources (Filtered - More Column	ns Exist)				
Security Realms	Click the Lock & Edit button in the Charg	pe Center to activate all the	buttons on this page.			
E interoperability	(NATE)					
)#" Viagnosocs	New Deele					Showing 1 to 4 of 4
	🔲 Name 🖗	Туре	JNDI Name	Targets	Scope	Domain Partitions
	jdbcjfcjdev05	Generic	jdbc/fcjdevDS	ServerA1, ServerIMPS, ServerSchd	Global	
	jdbq/fcjdevDS_GTXW	Generic	jdbc/fcjdevOS_GTXN	ServerA1, ServerIMPS	Global	
		2.3	ithelfeideuOS XA	Facurel 1 Facure Cold	Clobal	
	jdbqfcjdevO5_XA	Genenc	land cherron Two	Servery Jerversone	diuda	
How do I 🛛	jdbcjfcjdevOS_XA	Generic	jdbc/fcjSchedulerDS	ServerA1, ServerSchd	Global	
How do I B • Create 108C generic data sources • Create 108C GridLink data sources	jdbqfrjdevO5_XA jdbqfrjdevO5_XA jdbqfrjdshedulerO5	Generic	jsbolfcjSchedulerDS	ServerAL, ServerSchd	Global	Showing 1 to 4 of 4
How do L. E • Orate 208C parenic data sources • Orate 208C Girldunk data sources • Orate 208C multi data sources	jebofrjdevOS (XA vebofrjdevOS (XA vebofrjdevOS Neerv Delete	Generic	jöbg/rgSchedulerDS	ServerAl, ServerSchd	Global	Showing 1 to 4 of 4
How do L. B • Orabit: JTBC garantic data sources • Orabit: JTBC GridLink data sources • Orabit: JTBC multi data sources • Orabit: JTBC multi data sources • Orabit: JTDC data sources	jsboftgleuOS_JA	Generic	jidoc/icjSchedulerOS	serverski, Serverski	Global	Showing 1 to 4 of 4

Figure 2-8 Configuration

- d. Below listed Data Sources must be configured as NXA (Please refer to the below screen-shot for Jdbc/fcjdevDS\_GTXN)
  - i. Jdbc/fcjdevDS
  - ii. Jdbc/fcjdevDS\_GTXN
  - iii. Jdbc/fcjdevDS\_ASYNC
- e. Below listed Data Sources must be configured as XA
  - i. Jdbc/fcjdevDS\_XA



Change Center	Home Log Out Preferences 쟖	Record Help	Welcome, pmin
View changes and restarts	Home >Summary of Servers >Summar	y of JDBC Data Sources >jdbc/fcjdevDS_GTXN >Summary of JDBC Data Sources >jdbc/fcjdevDS >Summary	of JDBC Data Sources >jdbc/fcjdevDS_GTXN
Click the Lock & Edit button to modify, add or	Settings for jdbc/fcjdevDS_GTXN	1	
delete items in this domain.	Configuration Targets Monito	oring Control Security Notes	
LOCK & EOR	General Connection Pool Or	rade ONS Transaction Diagnostics Identity Ontions	
Release Configuration	Control Control of	and and mentality addresses securit choses	
Domain Structure	Click the Lock & Edit button in the	e Change Center to modify the settings on this page.	
PM143	Save		
Comain Partitions     Environment			
Deployments	The connection pool within a JDBC WebLogic Server or when deployin	, data source contains a group of JDBC connections that applications reserve, use, and then return t ig the data source to a new target.	to the pool. The connection pool and the connections within it are created when the connection pool is registered, usually
terrices	Use this page to define the configu	uration for this data source's connection pool.	
D Interoperability			
12" Diagnostics	6 URL:	idbc practe thin @whf00aea in practe com 1523/pmtmpndb	The URL of the database to connect to. The format of the URL varies by JDBC driver.
	👩 Driver Class Name:	oracle.idbc.OracleDriver	The full package name of JDBC driver class used to create the physical database conne
			connection pool. (Note that this driver class must be in the classpath of any server to v deployed.) More Info
	- Deposition		The list of conception percent to the WOP driver that we used to create elusion during
How do I	User=CINUSR18		example: server=dbserver1. List each property=value pair on a separate line. More In
Configure testing options for a JDBC data	0301-01005020		
Configure the statement cache for a 3DBC			
connection pool			
<ul> <li>Configure credential mapping for a JDBC data source</li> </ul>			
Configure connection harvesting for a	System Properties:		The list of System Properties names passed to the JDBC driver that are used to create
connection pool			connections. For example: server=dbserver1. List each property=value pair on a separ
<ul> <li>Encrypt connection properties</li> </ul>			
System Status			
Health of Running Servers as of 5:26 PM		h	
Earland (0)			
Critical (0)	Encrypted Properties:		The list or encrypted Properties passed to the JDBC driver that are used to create phys connections. For example: password=value. There are two ways to entered the values:
Overloaded (0)			values at once but the encrypted values will be visible on the screen until you save the option, list each property=value pair on a separate line. Values entered will be encrypt
Warning (0)		Add Securely	enter the information securely, save any other changes that you wish to make to this p add Securate button. On the add a new Encrypted Property page enter the property of
OK (3)		0	and click CK. Repeat for additional encounted property values. More Info

#### Figure 2-9 Connection Pool

- f. Below options must be enabled for the GTXN Data Source Jdbc/fcjdevDS\_GTXN
  - i. Supports Global transactions
  - ii. Logging Last Resource

During creation of this datasource a table will be created in the connected database with the table name as WL\_LLR\_||'managed\_server\_name'

Here the managed server will be the name of the target server associated with the datasource.

For JDBC LLR 2PC transactions, if the transaction data is too large to fit in the LLR table, the transaction will fail with a rollback exception during commit. This can occur if your application adds many transaction properties during transaction processing. In this case, the database administrator can drop the existing table and create a new LLR table with the same name or alter the column with larger recSize value for RECORDSTR data column. The RECORDSTR data column must be the DBMS's variable string column type with the DBMS's maximum size. In this way, the DBMS allocates as much space as the data needs for a given row.



Change Center	😭 Home Log Out Preferences 🗠 Record Help	1							
View changes and restarts	Home >Summary of JDBC Data Sources >jdbc/fcjdevD5_GTXN								
Click the Lock & Edit button to modify, add or	Settings for jdbc/fcjdevDS_GTXN								
delete items in this domain.	Configuration Targets Monitoring Control Security Notes								
Lock & Edit	Conserval Conservation Day Owneds ONE Temperation Dissourceion Identity Onlines								
Release Configuration	General Connection Poor Oracle UNS Transaction Diagnosocs Identity options								
Domain Structure	Click the Lock & Edit button in the Change Center to modify the settings on this page.								
M143	Save								
⊕ Environment → Deployments ⊕ Services → Security Realins ⊕ Threeperability 3P Diagnostics	The transaction protocol for a JDBC data source determines how connections from the data source are handled during transaction processing. Transactions within a JDBC data source are either global (XA) or non-global (to This page enables you to define transaction options for this JDBC data source.								
	Supports Global Transactions	Select this option to enable non-XA connections from the data source I transactions. More Info							
	• Logging Last Resource	Enables a non-XA JDBC connection to participate in distributed transact (LLR) transaction optimization. Recommended in place of Emulate Two							
	Emulate Two-Phase Commit	Enables a non-XA JDBC connection to emulate participation in distribut option only if your application can tolerate heuristic conditions. More i							
How do I									
Configure global transaction options for a JDBC data source	One-Phase Commit     Enables a non-VA JDBC connection to participate in distributed transact     transaction processing. With this option, no other resources can particip     Info								
Svetem Statue	Save								
Health of Running Servers as of 10:24 AM	Click the Lock & Edit button in the Change Center to modify the settings on this page.								
Failed (0)									
Critical (0)									
Oundoaded (0)									

Figure 2-10 Transaction

- 8. Target Server for Datasources created
  - a. If Payments EAR is deployed with embedded Scheduler, all datasources should point to the single Managed Server, where the application is deployed.
  - b. If Payments EAR and Scheduler EAR are deployed on two different Servers.
    - Below datasources should be targeted to Managed Server where application is deployed. jdbc/fcjdevDS

jdbc/fcjdevDS\_GTXN

jdbc/fcjdevDS\_XA

 Below datasources should be targeted to Managed Server where Scheduler is deployed. jdbc/fcjdevDS

jdbc/fcjdevDS\_XA

- 9. Verifying data in SMTB\_MODULES\_GROUP Table
  - a. JNDI Names Input during Installation process must be verified with records in the SMTB\_MODULES\_GROUP table.
  - **b.** JNDI name provided here should be created on console.



Oracle FLEXCUBE Universal Installer 12.5.0.0.0								
Orac	le Banking Installer			NSTALLER				
Basic Setu	p Details	e in the Database						
MODULE	MODULE DESCRIPTION	JNDINAME						
FCPMTS	Payments Module	idbc/fcidevDS						
FCSMS	SMS	jdbc/fcjdevDS						
FCCOMN	Core Services	jdbc/fcjdevDS						
4		1						
			_					
Exi	t Log		Back	Next				

Figure 2-11 Below is the screen-shot of Data Input during installation

### Figure 2-12 Below is the screen-shot of records in the SMTB\_MODULES\_GROUP table

Ę	ŀ •	🔒 🔁 🖘 🗸	₹ ₹ ¢ # ø		8 🖬 -
		MODULE_GROUP_ID	MODULE_GROUP_DESC	JNDINAME	RELEASE
▶	1	FCCOMN	 Core Services	 jdbc/fcjdevDS	14.3.0.5.0
	2	FCSMS	 SMS	 jdbc/fcjdevDS	14.3.0.5.0
	3	FCPMTS	 Payments Module	 jdbc/fcjdevDS	14.3.0.5.0

- **10.** All queues mentioned in the Resource List should be mandatorily created. For all queues where Error queue needs to be defined, the below setting should be done.
  - a. 'Expiration Policy' should be maintained as 'Redirect' and 'Error Destination' as the error Queue. Keep Redelivery Limit as zero.

tings for E	MS_IN					
onfiguratio	n Monitoring Co	ontrol Securi	ty Subde	eployment M	lotes	
eneral T	resholds and Quotas	Overrides	Logging	Delivery Fa	ilure	
lick the Lo	k & Edit button in th	e Change Cent	er to modif	y the settings of	on this page.	
ave						
Jse this pag	e to define message o	delivery failure	parameters	, like specifyin	g redelivery limits, selecting a	expiration policy, and specifying an error destination for undeliverable or expired messages.
delivery I	elay Override:		-1			The delay, in milliseconds, before noiled back or recovered messages are redelivered, reg of the RedeliveryDelay specified by the consumer and/or connection Eactory, Redelivered messages are put back into their originating destination, redelivered topic messages are back into their originating subscription. The default value (1) specifies that the destination rot override the RedeliveryDelay setting specified by the consumer and/or connection factory. More Inflau.
delivery I	imit:		0			The number of redelivery tries a message can have before it is moved to the error destin. This setting overrides any redelivery limit set by the message sender. If the redelivery lim configured, but no error destinations is configured, then persistent and non-persistent mes are simply dropped (deleted) when they reach their redelivery limit. More Info
piration P	olicy:		Redin	ect 🔻		The message Expiration Policy to use when an expired message is encountered on a dest The valid expiration policies are: More Info
cpiration L	ogging Format:					The policy that defines what information about the message is logged when the Expiratio is set to Log. The valid logging policy values are: More Info
	ation:		EMS	IN_E		The name of the target error destination for messages that have expired or reached their redelivery limit. If no error destination is configured, then auch messages are simply drog a message has expired or reached its recellevely limit, and the Expirator Policy is set to R
ror Destin						then the message is moved to the specified Error Destination. More Info

#### Figure 2-13 Delivery Failure

 In case of Standalone and co-deployed setup for Payments, the below external queues should have the setup as mentioned: jms/SNCK\_RES\_IN

jms/SNCK\_RES\_BKP\_IN

jms/FP\_SNCK\_RES\_IN

jms/FP\_SNCK\_RES\_BKP\_IN

jms/EXT\_PRICE\_RES\_IN

jms/EXT\_PRICE\_RES\_BKP\_IN

jms/EXTACSYS\_REQ\_IN

jms/ECA\_RES\_BKP\_IN

jms/FP\_ECA\_RES\_BKP\_IN

jms/ECA\_RES\_IN

jms/ACC\_ENTRY\_RES\_BKP\_IN

jms/ECR\_RES\_IN

jms/ECR\_RES\_BKP\_IN

jms/EXTRATESYS\_REQ\_BKP\_IN

jms/EXTRATESYS\_REQ\_IN

- a. Options Expiry Policy should be maintained as Redirect and error destination as Error queue in Delivery Failure. Keep Redelivery Limit as zero.
- b. In Tab Overrides, value for 'Time-to-Live Override" should be maintained as 2000.
- 12. In case of co-deployed setup, for external queue MDB\_QUEUE\_RESPONSE, check if
  - a. Options Expiry Policy is maintained as Redirect and error destination asjms/ ACC\_ENTRY\_RES\_BKP\_IN in Delivery Failure. Redelivery Limit should be 0.
  - b. In Tab Overrides, value for 'Time-to-Live Override" should be maintained as 2000.
- **13.** Check if following Gateway ears are deployed on the Application Server for co-deployed setup.



- a. GW EJB
- b. GW MDB
- 14. SYSTEM' user should be present and debug should be enabled in case debugs needs to be generated for checking the response error from FCUBS.
- **15.** User role should be granted to SYSTEM user for the branch from where transaction is posted to MDB.
- **16.** Check the maintenance for tables
  - PMTM\_JOB\_PARAM
    - a. For Parameter PM.CTX.PROVIDER property maintain the below value"t3:// Weblogic\_IP:Server\_Port" or t3://Host Name:Server\_Port Here Host Name is the name of the Application Server or IP of the Application Server.

Server\_Port is the listen port configured on the application Managed Serverwhere application is deployed.

- For parameter PM.CTX.FACTORY value should be weblogic.jndi.WLInitialContextFactory.
- PMTM\_SYSTEM\_PARAMETERS
  - a. For PARAM\_NAME "PM.CTX.FACTORY", update the PARAM\_VALUE as 'weblogic.jndi.WLInitialContextFactory'.
  - b. For PARAM\_NAME "PM\_CTX\_PROVIDER", update the PARAM\_VALUE for Non-Cluster setup as "t3://Weblogic\_IP:Server\_Port" or "t3://HostName:Server\_Port" and for Cluster setup as "t3://HOST NAME1: PORT 1, HOST NAME2:PORT 2"
    - i. Here Host Name is the name of the Application Server or IP of the Application Server.
    - ii. Server\_Port is the listen port configured on the application Managed Server where application is deployed.
  - c. For PARAM\_NAME "PM.CTX.CONNFACTORY" the appropriate connection factory needs to be provided which is created in JMS Server for e.gjms/PMQCF.
  - d. For PARAM\_NAME "C2B\_FILE\_PATH", give the C2B path maintained in the Application server.
  - e. For PARAM\_NAME "DD\_FILE\_PATH" property, give the DD path maintained in the Application server.
  - f. For PARAM\_NAME "DEBUG\_PATH" property, give the PM DEBUG path maintained in the Application server.
  - **g.** For PARAM\_NAME "DISPATCH\_PATH" property, give the DISPATCH path maintained in the Application server.
- CSTB\_PARAM
  - a. Check if the below parameters PM.CTX.FACTORY, PM\_CTX\_PROVIDERand PM.CTX.CONNFACTORY exist in CSTB\_PARAM. In case parameters exists, it should have the same value as in PMTM\_SYSTEM\_PARAMETERS. The parameters need not be maintained in case it's already maintained in PMTM\_SYSTEM\_PARAMETERS.
- CSTM\_EXTERNAL\_SERVER\_DETAILS
  - a. For field "CONTEXT\_PROV\_URL", update the values for Non-Cluster setup as "t3://Weblogic\_IP:Server\_Port" or "t3://HostName:Server\_Port" and for Cluster

setup as "t3://HOST NAME1: PORT 1, HOST NAME2:PORT2" in web-logic application server.

- b. Value for QUEUE\_FCTRY\_JNDI should be 'jms/PMQCF'
- c. Value for CACHE\_QUEUE\_JNDI should be 'jms/CACHE\_TOPIC'
- 17. Please ensure the topic CACHE\_TOPIC is created and present in the weblogic JMS Server. In case of cluster and non-cluster setup, the 'Forwarding policy' of the distributed Topic should be"Replicated" for the uniform Distributed Topic, otherwise the Caching would not work properly.

#### Figure 2-14 Configuration - General

Change Center	Home Log Out Prefere	nces 🚵 Record	Help		Q		Welcome, pminfra Connected to: PM1428
View changes and restarts	Home >Summary of JMS Sen Modules >ClusterJMSModule	ers >ClusterJMSSe >jms/CACHE_TO	rver >Summary o PIC	f Persistent Stores >	ClusterJMSFile5	tore >Summary	of Servers >Summary of JMS Modules >PMJMSModule >Summary of JMS
No pending changes exist. Click the Release Configuration button to allow others to edit the	Settings for jms/CACHE_1	OPIC					
l ock & Edit	Configuration Security	Monitoring	Subdeployment	Notes			
Release Configuration	General Thresholds and	Quotas Over	ides Logging	Delivery Failure	Multicast	Members	
Domain Structure	Save						
M142R	Use this page to define th	e general configur	ation for this dis	stributed topic, suc	h as selecting	a destination k	ey for sorting messages as they arrive on the distributed topic members.
Servers Clusters	A Name:	Jms/CACHE_TOPIC					The name of this distributed topic. More Info
	JNDI Name:						The JNDI name used to look up this topic within the JNDI namespace. More Info
Resource Groups Resource Group Templates	👸 Forwarding Policy:	Replicated V					The uniform distributed topic message Forwarding Policy specifies whether a sent message is forwarded to all members. More Info
	Template:	The JMS template from which the destination is derived. A template provides an efficient manage of defining multiple destinations with simplay coefficienties.					

- If External JSUIXML path is checked as required during property creation, all UIXML and JS files(plus copy of old Rolled-up JSUIXML) should be copied to the external path after EAR creation.
- 19. All EMS folders should be created on the Application server with full rights.
- 20. Check if the value for below EMS properties are correctly defined in fcubs.properties. EMS\_INIT\_CTX\_FACT=weblogic.jndi.WLInitialContextFactory
  - a. Non Cluster Setup EMS\_PRVDR\_URL= t3://Weblogic\_IP:Server\_Port

t3://Weblogic\_IP:Server\_Port" or "t3://Host Name:Server\_Port"

- i. Here Host Name is the name of the Application Server or IP of the Application Server.
- ii. Server\_Port is the listen port configured on the application Managed Server where application is deployed.
- b. Cluster Setup

In case of external load balancer, it should be the Host Name or IP and port of the Load balancer.

EMS\_PRVDR\_URL= t3://Weblogic\_IP:Server\_Port

In case of internal load balancer, specify the Host name and IP as below of all managed servers used in the Cluster

EMS\_PRVDR\_URL= t3://HOST NAME1: PORT 1, HOST NAME2:PORT 2

- Debug paths should be created on the Application server with full rights. Data Store tableCSTB\_DEBUG\_USERS should be populated with value Y if debug is to be generated for a logged in user.
- 22. Below maintenance should be done for both Co-deployed and Standalone. Details can be checked in FCUBS-Oracle Banking Payments Integration document.



- a. Sanctions System Maintenance (PMDSNCKM)
- b. ECA System Maintenance (PMDECAMT)
- c. Accounting System Maintenance (PMDACCMT)
- d. Queue Connection Profile Maintenance (PMDQPROF)