Payments Installation Checklist Oracle Banking Payments Release 14.4.0.0.0 Part No F31489-01 February 2021

FINANCIAL SERVICES



#### ORACLE

Oracle Banking Payments WebLogic Server Configuration Checklist February 2021 Version 14.4.0.0.0

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## 1. Preface

### 1.1 Introduction

This document briefs the list of checklists to validate Payments Installation, to make it compatible to Oracle Banking Payments 14.3.

#### 1.2 Audience

This document is intended for the following audience:

• Implementation & IT Staff

#### 1.3 **Documentation Accessibility**

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## 2. Payments Installation Checklist

#### 2.1 Checklist for Installation on WebLogic Server

Below are the list of steps to validate Server Configuration post successful installation of OBPM:

- 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 OBPM Installation for the WebLogic Domain created.
  - a. Under Domain--> Configuration Tab --> Web Applications
  - b. 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

Analyze College and restarts The Advances of Deployments - Summary of D	← → C ③ Not secure   10.1	.84.155.73:4001/console/console.port	tal?_nfpb=true&_pageLabel=CoreServe	erServerTablePage				ú						
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Delete Managed Servers	Clone servers	New Clone Delete				1		Showing 1 to 3						
	Delete the Administration Server													

Verifying Arguments for Reference Number Generation

- a. After clicking the Managed Server, navigate to 'Server Start' tab under the 'Configuration Tab'
- b. Verify the Arguments as shown below

-Dserver.id=1



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 OBPM Transaction screens. If not set, OBPM Transaction screens on launch will report Error on click of NEW

<) → ୯ ŵ	10.184.154.144:801	0/console/conso	ole.portal?_nfpb	=true&_pageLab	el=Server0	ConfigSer	verstartTa	bPage&han	P		L Search	흐	III\ EE	
BugDB Cracle Link SWIFT	] Learn 🛅 JIRA 🛅 Oracle Lin	e 🛅 OBPM Link	DIM DM	ISC										
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changes will automatically be activated as you modify, add or delete items in this domain.	Configuration Protocols	Logging Debug	Monitoring Co	Introl Deployments	Services	Security	Notes				2			
Domain Structure	General Cluster Service	Keystores SS	L Federation Se	rvices Deployment	Migration	Tuning	Overload	Concurrency	Health Monitoring	Server Start	Web Services Coherence			
WEUROPE ^	Save										<b>,</b>			
Environment     Servers     Environment     Servers	Node Manager is a WebLogic	Server utility that yo	u can use to start,	suspend, shut down,	and restart s	servers in no	ormal or une	xpected condition	s. Use this page to	configure the start	tup settings that Node Manager will use to start this serve	r on a remote machine		
Coherence Clusters Resource Groups Resource Group Templates	Java Home:									The Java hon Info	ne directory (path on the machine running Node Manager)	) to use when starting	this server	More
Machines Virtual Hosts Virtual Targets Virtual Targets	Java Vendor:						The Java Ven	ndor value to use when starting this server. More Info						
Concurrent Templates	BEA Home:								The BEA hom Info	e directory (path on the machine running Node Manager)	to use when starting	his server.	More	
How do I   Configure startup arguments for Managed Servers	Root Directory:										y that this server uses as its root directory. This directory is er. If you do not specify a Root Directory value, the doma			
Start Managed Servers from the Administration Console     Shut down a server instance	Class Path:									The dasspath	h (path on the machine running Node Manager) to use whe	en starting this server	More In	fo
System Status  Health of Running Servers as of 11:46 AM Failed (0)														
Critical (0) Overloaded (0) Warning (0) OK (4)	Arguments: -Deerver.id=1 -Dwe	blogic.secur	ity. <u>SSL</u> .Bols	g=true						The argumen	its to use when starting this server. More Info			

- 4. 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



hange Center	Home Log Out Preferences 🛃 Re	cord Help	Q			Welcome, pminfra Cor						
iew changes and restarts	Rine >Summary of UBC Data Sources											
ick the Lack & Edit button to modify, add or	Summary of JOBC Data Sources											
lete items in this domain.	Configuration Monitoring											
Rélease Configuration Release Configuration Ratio Structure 43 Domain Partitions Environment Deployments Services Services	A 10BC data source is an object bound This page summarizes the 10BC data s Customize this table Data Sources (Filtered - More Colum	ource objects that have been o		DBC connections. Applications can look up a data source on the JIOU tre	and then borrow a database conner	tion from a data source.						
Security Realms Interoperability Diagnostics	Click the Lock & Edit button in the Che	nge Center to activate all the	buttons on this page.			Showing 1 to 4 of 4						
						Showing 1 to 1 of 1						
	🗌 Name 🏟	Туре	JNDI Name	Targets	Scope	Domain Partitions						
	jdbc/fcjdevOS	Generic	jdbc/fcjdevDS	ServerA1, ServerIMPS, ServerSchd	Global							
	jdbcjfcjdevOS_GT/N	Generic	jdbc/fcjdevDS_GTXN	ServerA1, ServerIMPS	Global							
w do IB	jdbcjfcjdevOS_XA	Generic	jdbc/fcjdevDS_XA	ServerA1, ServerSchd	Global							
	jdbqfcjSchedulerDS	Generic	jdbc/ficj5chedulerDS	ServerA1, ServerSchd	Global							
Create JDBC generic data sources Create JDBC GridLink data sources Create JDBC multi data sources Create UCP data sources	New Delete					Showing 1 to 4 of 4						
Deate Proxy data sources												

- d. Below listed Data Sources must be configured as NXA (Please refer to the below screenshot 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 Preferenc	es 🔝 Rec	ord Help			Q		Welcome, pm
View changes and restarts	Home >Summar	ry of Servers >5	ummary of X	OBC Data So	surces >jdbc/f	cjdavDS_GTXN :	»Summary of JDBC Data Sources »jdbc/fcjdev	wDS >Summary of JDBC D	Data Sources >jdbc/fcjdevDS_GTXN
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for jdb								
Lock & Edit	Configuration	Targets	Monitoring	Control	Security	Notes			
Release Configuration	General Con	nnection Poo	Oracle	ONS	Transaction	Diagnostics	Identity Options		
Domain Structure	Click the Lock	R & Edit button	in the Char	nge Center	to modify th	e settings on ti	his page.		
PM143	Save								
⊕ Domain Partitions ⊕ Environment □ Deployments ⊕ Services □ Security Realms ⊕ Interoperability ⊕ Depropolity	WebLogic Serv Use this page	ver or when de	ploying the	data sourc	te to a new t	arget.		id then return to the po	ool. The connection pool and the connections within it are created when the connection pool is registered, usu
	🚮 URL:			jdb	oc:oracle:th	in:@whf00a	ea in.oracle.com:1523/pmtmppdb		The URL of the database to connect to. The format of the URL varies by JDBC driver
	👩 Driver Cla	iss Name:		ora	acle.jdbc.O	racleDriver			The full package name of JDBC driver class used to create the physical database con connection pool. (Note that this driver class must be in the classpath of any server to deployed.) Nore Info
How do I	Properties								The list of properties passed to the JDBC driver that are used to create physical data example: server=dbserver1. List each property=value pair on a separate line. More
Configure testing options for a JDBC data source	user=CMNUS	SR18							compare out to "assourts as use saver projecty" trans- part set a appendix inte-
Configure the statement cache for a JDBC connection pool									
<ul> <li>Configure credential mapping for a JDBC data source</li> </ul>					h				
<ul> <li>Configure connection harvesting for a connection pool</li> </ul>	System Properties:								The list of System Properties names passed to the JOBC driver that are used to creat connections. For example: server=dbserver1. List each property=value pair on a sep
Encrypt connection properties									
System Status									
Health of Running Servers as of 5:26 PM					h				
Failed (0)           Critical (0)           Overloaded (0)           Warning (0)           OK (3)	Encrypted Pro	operties:			1	dd Securely			The list of encrypted Properties passed to the 208C driver that are used to create ph connections. For example, password-value. There are two ways to entered the value values at crace but the encrypted values will be validle on the screen unit you save to option, list each property-value pair on a separate line. Values entered will be encry enter the information securely, save any other charges that you wish to make to the Add Securely button. On the Add a new Encrypted Property page, enter the property and risk for Add and an enclosed resourced resource that was the property and risk for Add and an enclosed resourced resource under the Add Securely button. On the Add a new Encrypted Property page, enter the property and risk for Add and an enclosed resourced resource under the secure for additional another demonstration and the Add Secure for Additional another demonstration and the Add Secure for Additional another demonstration and and the Add Secure for Additional another demonstration and the Add Secure for Additional Additi

- 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	A Home Log Out Preferences 🔤 Record Help											
View changes and restarts	Home > Summary of JORC Data Sources > jdbc/fejdevOS_GTXN											
Click the Lock & Edit button to modify, add or delete items in this domain.	Settings for jdbc//cjdevD5_GTXN											
Lock & Edit	Configuration Targets Monitoring Control Security Notes											
Release Configuration	General Connection Pool Oracle ONS Transaction Diagnostics Identity Options											
Domain Structure	Click the Lock & Edit button in the Change Center to modify the settings on this page.											
PM143	Save											
B - Environment → Deployments B - Security Realms B - Interoperability	The transaction protocol for a JDBC data source determines how connections from the data source are handled during transaction processing. This page enables you to define transaction options for this JDBC data source.											
B→Diagnostics	Supports Global Transactions	Select this option to enable non-VA connections from the data source to transactions. More Info										
	Cogging Last Resource	Enables a non-XA JDBC connection to participate in distributed transacti (LLR) transaction optimization. Recommended in place of Emulate Two-										
	Emulate Two-Phase Commit	Enables a non-XA JDBC connection to emulate participation in distribute option only if your application can tolerate heuristic conditions. More I										
How do I [ Configure global transaction options for a JDBC data source	<ul> <li>One-Phase Commit</li> </ul>	Enables a non-X4 JDBC connection to participate in distributed transacti transaction processing. With this option, no other resources can particip Info										
System Status	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)												
Overloaded (0)												
Uverloaded (0) Warning (0)												

- 5. 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
    - i. Below datasources should be targeted to Managed Server where application is deployed.

jdbc/fcjdevDS jdbc/fcjdevDS\_GTXN jdbc/fcjdevDS\_XA

ii. Below datasources should be targeted to Managed Server where Scheduler is deployed.

jdbc/fcjdevDS jdbc/fcjdevDS\_XA

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

Below is the screenshot of Data Input during installation



S Oracle FL	XCUBE Universal Installer 12.5.0.0.0		
Orac	le Banking Installer		
Basic Setu Parameter	p Details	le in the Database. UPDATE	
MODULE	MODULE DESCRIPTION	JNDINAME	
FCPMTS	Payments Module	jdbc/fcjdevDS	
1.100.00.00	SMS	jdbc/fcjdevDS	
FCCOMN	Core Services	jdbc/fcjdevDS	
4		•	
Exi	t Log		Back Next
-			

Below is the screenshot of records in the SMTB\_MODULES\_GROUP table

ŧ	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

- 7. 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.



Home Lo	og Out Preferences	Necor	rd Help			Q	Welcome, pminfra Connected to: PM
ome >Sumn	mary of JDBC Data So	ources >Sur	mmary of J	MS Servers	>PMJMSSer	ver >Summa	es >PMJMSMODULES >jms/ExTACSYS_REQ_IN >Summary of JMS Modules >PMJMSMODULES >EMS_IN
tings for E	EMS_IN						
onfigurati	ion Monitoring	Control	Security	/ Subde	ployment	Notes	
General T	Thresholds and Quo	tas Ove	errides	Logging	Delivery	Failure	
lick the Le	ock & Edit button i	a tha Char	na Conto	r to modifi	, the cotting	r on this na	
Save	DEX & EDIT DECOM	in the chair	ige Genter	r to mouny	y the second	is on this pa	
Use this pa	age to define messa	ge delivery	y failure p	arameters,	, like specif	ing redelive	ting a message expiration policy, and specifying an error destination for undeliverable or expired messages.
edelivery.	Delay Override:			-1			The delay, in milliseconds, before rolled back or recovered messages are redelivered, regardles of the RedeliveryOelay specified by the consumer and/or connection factory. Redelivered queue messages are put back into their originating destinabion; redelivered topic messages are put back into their originating subscription. The default value (-1) specifies that the destination will not override the RedeliveryDelay setting specified by the consumer and/or connection factory. More Info
edelivery	Limit:			0			The number of redelivery tries a message can have before it is moved to the error destination. This setting overrides any redelivery limit set by the message sender. If the redelivery limit is configured, but no error destination is configured, they persistent and non-pensistent messages are simply dropped (deleted) when they reach their redelivery limit. More Info
xpiration I	Policy:			Redire	ect 🔻		The message Expiration Policy to use when an expired message is encountered on a destinatio The valid expiration policies are: More Info
xpiration I	Logging Format:						The policy that defines what information about the message is logged when the Expiration Poli is set to Log. The valid logging policy values are: More Info
rror Destir	ination:			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 such messages are simply dropped. a message has expired or reached its redelivery limit, and the Expiration Policy is set to Redirect then the message is moved to the specified Error Destination. More Info
Save							

8. 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\_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/ACC\_ENTRY\_RES\_BKP\_IN jms/ECR\_RES\_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.
- 9. 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 as jms/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.



- 10. Check if following Gateway ears are deployed on the Application Server for co-deployed setup.
  - GW EJB
  - GW MDB
- 11. 'SYSTEM' user should be present and debug should be enabled in case debugs needs to be generated for checking the response error from FCUBS.
- 12. User role should be granted to SYSTEM user for the branch from where transaction is posted to MDB.
- 13. Check the maintenance for tables
  - PMTM\_JOB\_PARAM
    - i. 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 Server where application is deployed.

- ii. For parameter PM.CTX.FACTORY value should be weblogic.jndi.WLInitialContextFactory
- PMTM\_SYSTEM\_PARAMETERS
  - i. For PARAM\_NAME "PM.CTX.FACTORY", update the PARAM\_VALUE as 'weblogic.jndi.WLInitialContextFactory'.
  - ii. For PARAM\_NAME "PM\_CTX\_PROVIDER", update the PARAM\_VALUE for Non-Cluster setup as "t3://Weblogic\_IP:Server\_Port" or "t3://Host Name:Server\_Port"

and for Cluster setup as "t3://HOST NAME1: PORT 1, HOST NAME2:PORT 2"

- a. Here Host Name is the name of the Application Server or IP of the Application Server.
- b. Server\_Port is the listen port configured on the application Managed Server where application is deployed.
- For PARAM\_NAME "PM.CTX.CONNFACTORY" the appropriate connection factory needs to be provided which is created in JMS Server for e.g jms/PMQCF.
- iv. For PARAM\_NAME "C2B\_FILE\_PATH", give the C2B path maintained in the Application server.
- v. For PARAM\_NAME "DD\_FILE\_PATH" property, give the DD path maintained in the Application server.
- vi. For PARAM\_NAME "DEBUG\_PATH" property, give the PM DEBUG path maintained in the Application server.
- vii. For PARAM\_NAME "DISPATCH\_PATH" property, give the DISPATCH path maintained in the Application server.
- CSTB\_PARAM
  - i. Check if the below parameters PM.CTX.FACTORY, PM\_CTX\_PROVIDER and PM.CTX.CONNFACTORY exist in CSTB\_PARAM. In case parameters exists, it should have the same value as in in PMTM\_SYSTEM\_PARAMETERS. The parameters need not be maintained



in case it's already maintained in PMTM\_SYSTEM\_PARAMETERS.

- CSTM\_EXTERNAL\_SERVER\_DETAILS
  - For field "CONTEXT\_PROV\_URL", update the values for Non-Cluster setup as "t3://Weblogic\_IP:Server\_Port" or "t3://Host Name:Server\_Port" and for Cluster setup as "t3://HOST NAME1: PORT 1, HOST NAME2:PORT 2" in web-logic application server.
  - iii. Value for QUEUE\_FCTRY\_JNDI should be 'jms/PMQCF'
  - iv. Value for CACHE\_QUEUE\_JNDI should be 'jms/CACHE\_TOPIC'
- 14. 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.

Change Center	B Home Log Out Preferen	ces 🚵 Record Help	Q		Welcome, pminfra Connected to: PM1425								
View changes and restarts	Home >Summary of JMS Servers >Cutate:JMSServer >Summary of Pensittent Stores >Cutate:JMSFielStore >Summary of Servers >Summary of JMS Modules >PMUMSModule >Summary of JMS Modules >Cutate:JMSModule >Jmg/CACHE_TOPIC												
No pending changes exist. Click the Release Configuration button to allow others to edit the	Settings for jms/CACHE_T	Settings for jms/CACHE_TOPIC											
domain.	Configuration Security	Monitoring Subdeployment	Notes										
Lock & Edit													
Release Configuration	General Thresholds and	Quotas Overrides Logging	Delivery Failure Multicast	Members									
Domain Structure	Save												
PH142R   Domain Partitions  Convert	Use this page to define the	general configuration for this di	stributed topic, such as selecting	a destination key for sorting messages a	as they arrive on the distributed topic members.								
Servers Clusters	🛃 Name:	jms/CACHE_TOPIC		The	name of this distributed topic. More Info								
	JNDI Name:	jms/CACHE_TOPIC		The	JNDI name used to look up this topic within the JNDI namespace. More Info								
Resource Groups     Resource Group Templates     Machines	🕂 Forwarding Policy:	Replicated ~		The	uniform distributed topic message Forwarding Policy specifies whether a sent ssage is forwarded to all members. More Info								
Virtual Hosts	Template:	None 🗸			JMS template from which the destination is derived. A template provides an								

- 15. 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.
- 16. All EMS folders should be created on the Application server with full rights.
- 17. Check if the value for below EMS properties are correctly defined in fcubs.properties.

EMS\_INIT\_CTX\_FACT=weblogic.jndi.WLInitialContextFactory

i. Non Cluster Setup

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

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

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



- 18. Debug paths should be created on the Application server with full rights. Data Store table CSTB\_DEBUG\_USERS should be populated with value Y if debug is to be generated for a logged in user.
- 19. Below maintenances should be done for both Co-deployed and Standalone. Details can be checked in FCUBS-OBPM Integration document.
  - a. Sanctions System Maintenance (PMDSNCKM)
  - b. ECA System Maintenance (PMDECAMT)
  - c. Accounting System Maintenance (PMDACCMT)
  - d. Queue Connection Profile Maintenance (PMDQPROF)

