Payments Installation Checklist
Oracle Banking Payments
Release 14.3.0.0.0
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Oracle Banking Payments WebLogic Server Configuration Checklist
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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

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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2. Payments Installation Checklist

2.1 Checklist for Oracle Banking Payments 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

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

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

---
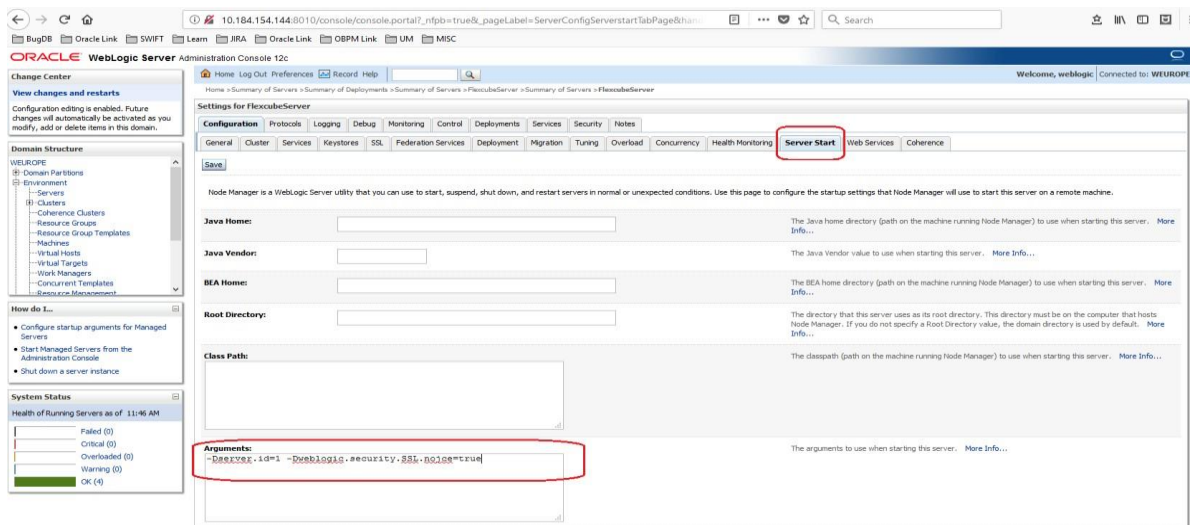
4. Data Source Setup Verification

   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

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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

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.

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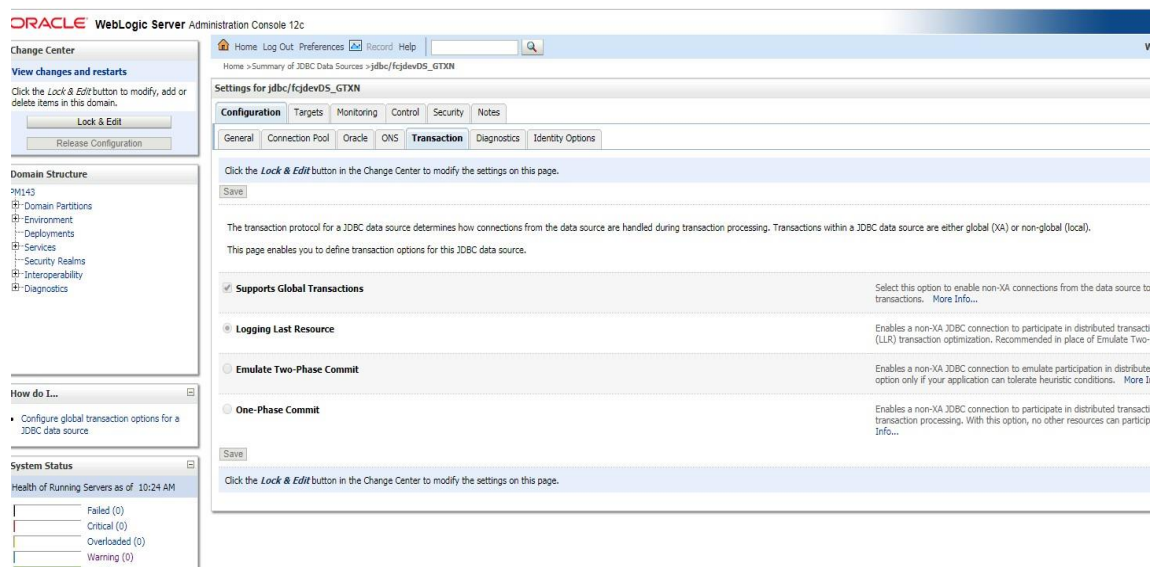
5. Target Server for Datasources created

    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
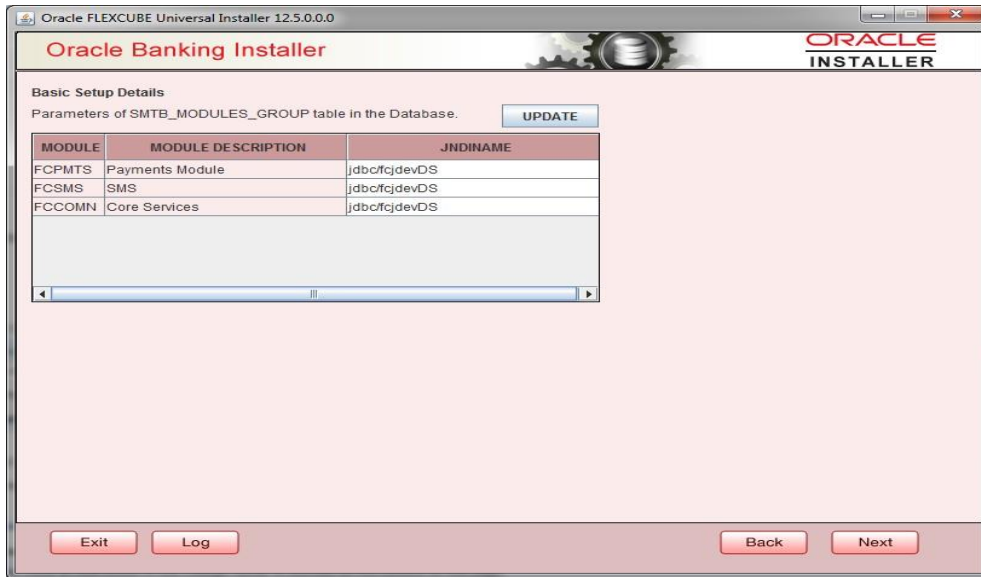
Below is the screenshot of records in the SMTB_MODULES_GROUP table

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 Log Out Preferences ⚙ Record Help   🔍   Welcome, pminfra | Connected to: PM143

Home >Summary of JDBC Data Sources >Summary of JMS Servers >PMJMSServer >Summary of JMS Modules >PMJMSMODULES >jms/EXTACSYS_REQ_IN >Summary of JMS Modules >PMJMSMODULES >EMS_IN

Settings for EMS_IN

Configuration | Monitoring | Control | Security | Subdeployment | Notes

General | Thresholds and Quotas | Overrides | Logging | **Delivery Failure**

Click the *Lock & Edit* button in the Change Center to modify the settings on this page.

Save

Use this page to define message delivery failure parameters, like specifying redelivery limits, selecting a message expiration policy, and specifying an error destination for undeliverable or expired messages.

|		
Redelivery Delay Override:	-1	The delay, in milliseconds, before rolled back or recovered messages are redelivered, regardless of the RedeliveryDelay specified by the consumer and/or connection factory. Redelivered queue messages are put back into their originating destination; 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...
Redelivery 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, then persistent and non-persistent messages are simply dropped (deleted) when they reach their redelivery limit. More Info...
Expiration Policy:	Redirect ▼	The message Expiration Policy to use when an expired message is encountered on a destination. The valid expiration policies are: More Info...
Expiration Logging Format:		The policy that defines what information about the message is logged when the Expiration Policy is set to Log. The valid logging policy values are: More Info...
Error Destination:	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. If 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

Click the *Lock & Edit* button in the Change Center to modify the settings on this page.

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_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.

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 IPof 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 as "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.

    iii. 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 server.
    v. For PARAM_NAME "DD_FILE_PATH" property, give the DD path maintained in the server.
    vi. For PARAM_NAME "DEBUG_PATH" property, give the PM DEBUG path maintained in the server.
    vii. For PARAM_NAME "DISPATCH_PATH" property, give the DISPATCH path maintained in the 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.

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- CSTM_EXTERNAL_SERVER_DETAILS

  i. For field "CONTEXT_PROV_URL", update the values as "t3://Weblogic_IP:Server_Port" or " or "t3://hostname:Server_Port" for web-logic application server and "iiop://Websphere_IP:Bootstrap_port"
  ii. Value for QUEUE_FCTRY_JNDI should be 'jms/PMQCF'
  iii. Value for CACHE_QUEUE_JNDI should be 'jms/CACHE_TOPIC'

14. 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.

15. All EMS folders should be created on the Application server with full rights.

16. 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 specifiy 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

17. 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.

18. 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)

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