

# Oracle® Banking Payments

## FCUBS-OBPM Integration Setup Guide



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ORACLE®

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# 1

## Preface

- [Purpose](#)
- [Audience](#)  
This manual is intended for the following User/User Roles:
- [Documentation Accessibility](#)
- [Critical Patches](#)
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## 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

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

# 2

## Integration Guide

You can integrate Oracle Banking Payments product (OBPM) with Oracle FLEXCUBE Universal Banking product (FCUBS). The specific steps needed on the co-deployed installation of these two products and specific maintenances needed are briefed on this document.

- [Installation Guide](#)
- [Maintenance to be done in FCUBS](#)
- [Maintenance to be done in OBPM](#)
- [FAQ](#)

## Installation Guide

Refer to Installation guide for understanding the property file and installation bat files used for integration between FCUBS and OBPM.

### **Web-logic set-up**

#### **Deployments:**

Following ears to be deployed for the FCUBS Gateway support through JMS:

- GW EJB
- GW MDB

#### **Queue Maintenance:**

- MDB\_QUEUE
- MDB\_QUEUE\_RESPONSE -with Expiry Policy as Redirect and error destinationas jms/ACC\_ENTRY\_RES\_BKP\_IN in Deliver y Failure. Keep Redelivery Limit aszero and “Time-to-Live Override” value as 2000.

To set the “Time-to-Live Override” property, navigate to MDB\_QUEUE\_RESPONSE -> Configuration-> Overrides Tab

Figure 2-1 Overrides Tab

Home > Summary of JMS Modules > PM14MODULES > MDB\_QUEUE\_RESPONSE

Settings for MDB\_QUEUE\_RESPONSE

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**

Destinations can override some of the settings (such as priority) that a message producer includes with its messages. Use this page to configure such overrides for this queue.

**Priority Override:**  The priority assigned to all messages that arrive at this destination, regardless of the Priority specified by the message producer. The default value (-1) specifies that the destination will not override the Priority set by the message producer. [More Info...](#)

**Time to Live Override:**  The time to live assigned to all messages that arrive at this destination, regardless of the TimeToLive value specified by the message producer. The default value (-1) specifies that this setting will not override the TimeToLive setting specified by the message producer. [More Info...](#)

**Time-to-Deliver Override:**  The default delay, either in milliseconds or as a schedule, between when a message is produced and when it is made visible on its target destination, regardless of the delivery time specified by the producer and/or connection factory. The default value (-1) specifies that the destination will not override the TimeToDeliver setting specified by the producer and/or connection factory. The TimeToDeliver override can be specified either as a long or as a schedule. [More Info...](#)

**Delivery Mode Override:**  The delivery mode assigned to all messages that arrive at the destination regardless of the DeliveryMode specified by the message producer. [More Info...](#)

**Save**

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

To set the “Error Destination”, “Expiration Policy” and “Redelivery Limit” properties, navigate to MDB\_QUEUE\_RESPONSE Configuration Delivery Failure tab.

Figure 2-2 Delivery Failure Tab

ORACLE WebLogic Server Administration Console 12c

Home Log Out Preferences Record Help

Welcome, weblogic Connected to: PM14APP

Home > Summary of JMS Modules > PM14MODULES > MDB\_QUEUE\_RESPONSE

Settings for MDB\_QUEUE\_RESPONSE

Configuration Monitoring Control Security Subdeployment Notes

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

**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:**  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:**  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:**  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:**  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**

WebLogic Server Version: 12.2.1.1.0  
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## Maintenance for Gateway:

### GWDETFUN - Gateway External system function maintenance



Ensure the Gateway setup for following services are maintained in FCUBS for external source system as FCUBS:

Service Name	Operation Code
FCUBSAccService	QueryCustAccVal
FCUBSCAService	CreateEcablk CloseEcablk
FCUBSIFService	CreateExtAccEcaEntries

Source: FCUBS and User: SYSTEM

### **CODUPLDM - Upload Source Preferences maintenance**

Ensure Upload Source preference setup for following modules are maintained in FCUBS for external source system as FCUBS:

Module	Post Upload Status
IF	Authorized
CA	Authorized

## Maintenance to be done in FCUBS

This section describes the specific maintenance needed in Oracle FLEXCUBE Universal Banking (FCUBS) to install & integrate the same with Oracle Banking Payments (OBPM).

- [Branch Maintenance](#)
- [External Payments System Maintenance](#)
- [External System Functions Maintenance](#)
- [Upload Source Preference Maintenance](#)
- [BIC Maintenance](#)
- [Other Common Maintenance](#)

### Branch Maintenance

Create branch in STDCRBRN screen in FCUBS.

Specify a host for every branch created (To maintain Host time zone, refer OBPM Payments Core User Manual).

A pair of branches which could transact inter-branch payments should be maintained under the same host.

**Figure 2-3 Branch Core Parameter Maintenance**

In addition, map the branch code created above, in STDBRANC screen, and maintain the branch parameters.

**Figure 2-4 Branch Parameter Maintenance**

## External Payments System Maintenance

Maintain an active record in External System Maintenance screen (IFDEPSMT) with field external system type as “Payments” for different service codes with all required fields in the detailed section of this screen.

- For outgoing payments, maintain the service code as “GenPayMessage” with OBPM Single Payment Service details as below:
  - Service Name – PMSinglePaymentService
  - Operation Code – CreateSinglePayment
  - Rest/Web Service User Option - Choose the preferred option
  - Rest/Web Service User – Provide the User to be used in Rest request
  - Rest/Web Service URL Service – Provide the Rest API URL of OBPM Single Payment Service
- For MT110 - Advice of Cheque, maintain the service code as 'GenInstrIssue' with OBPM Instrument Issuance Service details as below:
  - Service Name - PMInstrumentIssueService
  - Operation Code - CreateInstrumentIssue
  - Rest/Web Service User Option - Choose the preferred option
  - Rest/Web Service User - Provide the User to be used in Gateway request
  - Rest/Web Service URL - Provide the WDSL URL of OBPM Instrument Issuance Service
- For MT111 - Request for Stop Payment of a Cheque, maintain the service code as 'GenInstrStop' with OBPM Instrument stop Service details as below:
  - Service Name - PMInsStopPayService
  - Operation Code - CreateInsStopPay
  - Rest/Web Service User Option - Choose the preferred option
  - Rest/Web Service User - Provide the User to be used in Gateway request
  - Rest/Web Service URL - Provide the WDSL URL of OBPM Instrument Stop Service
- For Outgoing Collections - Request for DD Creation, maintain the service code as 'CreatedDDOutService' as below:
  - Service Name - PMDDOutService
  - Operation Code - CreatedDDOutService
  - Rest/Web Service User Option - Choose the preferred option
  - Rest/Web Service User - Provide the User to be used in Gateway request
  - Rest/Web Service URL - Provide the WDSL URL of OBPM

**Figure 2-5 External System Maintenance**

## External System Functions Maintenance

Maintain the gateway preferences for the below Source codes for the service name "FCUBSEPSService" with operation code "CreateEPSNotification" to receive the notifications from OBPM:

- FCUBSCL
- FCUBSRT
- FCUBSTD

For all FCUBS corporate modules where outgoing payment is initiated, the source code will be "FCUBS <Module-ID>". For example, the source code for FX module will be "FCUBSFX"

Maintain the gateway preferences for the below Source codes for the service name "PMDDOutService" with operation code "CreateDDOutService" to receive the notifications from OBPM:

- FCUBSCL

**Figure 2-6 External System Function**

## Upload Source Preference Maintenance

In Upload Source Preference Maintenance screen (CODUPLDM), Post Upload Status field value should be selected as “Authorized”.

**Figure 2-7 Upload Source Preference Maintenance**

Below are the scheduler jobs configured for the integration. Make sure that these jobs are running.

- EPSGENPAYMENT - Scheduler job for processing Payment request
- EPS\_NOTIFICATION - Scheduler job for processing OBPM notifications

Make sure that the below ADF file is executed in the database schema.

This file contains the JSON template for the OBPM Single Payment Service

- GenPayMessage.ADF

## BIC Maintenance

Upload BIC directory & ensure that the same are listed at ISDBICDE which FCUBS will use to transact payments.

## Other Common Maintenance

Refer FCUBS Core User Manual for the other Day 0 maintenance to be done in FCUBS.

## Maintenance to be done in OBPM

This section describes the specific maintenance needed in Oracle Banking Payments (OBPM) to install & integrate the same with Oracle FLEXCUBE Universal Banking (FCUBS).

- [Source Maintenance](#)
- [Source Network Preference Maintenance](#)

- Network Rule Maintenance
- Notification Maintenance
- External System Functions Maintenance
- ECA System Maintenance
- Accounting System Maintenance
- Customer Maintenance
- Account Maintenance
- General Ledger Maintenance
- Transaction Code Maintenance
- OBPM to use FCUBS Dates
- Other Payments Maintenance

## Source Maintenance

Maintain the Source code with which FCUBS will handoff payment requests at PMDSORCE-Source maintenance screen.

**Figure 2-8 Source Maintenance**

The screenshot displays the 'Source Maintenance Detailed' window. It includes fields for 'Source Code \*', 'Host Code \*', 'Description', and 'Source Type' (with an 'Upload' button). There are also fields for 'MIS Group' and 'UDF Group'. The window is divided into several sections with checkboxes and dropdowns:

- Prefunded Payments:** Includes checkboxes for 'Prefunded Payments Allowed', 'Pricing Applicable', 'Prefunded Payments GL', and 'Auto-process Claims for Prefunded Payments'.
- Duplicate Check Fields:** Includes a field for 'Duplicate Check Period in Days'.
- Accounting & Message Preference:** Includes a 'Preferred Reference' dropdown menu.
- Other Preferences:** Includes a 'SSI Handling' dropdown menu and checkboxes for 'Validate Debit Authority', 'Incoming SWIFT', 'Allow External Audit Info', 'PSD Applicable', 'Notification Required', and 'Allow Back Value Dated Book Transfer'.
- Credit to GL Payments:** Includes checkboxes for 'Inbound credit to GL' and 'Pricing Applicable', and a field for 'Intermediary Credit GL'.
- Auto Queue Preferences:** Includes a 'System Action' dropdown menu.

At the bottom, there is a table with columns: 'Duplicate Check Fields', 'Response Details', 'Maker', 'Checker', 'Date Time:', 'Mod No', 'Record Status', 'Authorization Status', and an 'Exit' button.

Following are the source codes FCUBS uses to initiate payment request:

- FCUBSCL
- FCUBSRT
- FCUBSTD

For all FCUBS corporate modules where outgoing payment is initiated, the source code will be "FCUBS<Module-ID>". For example, the source code for FX module will be "FCUBSFX".

Each record maintained in Source Maintenance Detailed screen (PMDSORCE) should have the below preferences:

- Prefunded Payments GL should match Inter System Bridge GL maintained in External Payment System Maintenance screen (IFDEPSMT) of FCUBS.
- To initiate a payment for Loan disbursement / Deposit maturity etc. FCUBS will credit the funds in an intersystem bridge GL. This is needs to be maintained as Prefunded GL in OBPM.

This GL should be maintained in FCUBS & replicated to OBPM.

## Source Network Preference Maintenance

Maintain the FCUBS Source specific preferences for each network at PMDSORNW screen.

**Figure 2-9 Source Network Preference**

The screenshot shows the 'Source Network Preferences Detailed' window. It includes input fields for Host Code, Source Code, Network Code, and Transaction Type (set to 'Incoming'). Below these are sections for Preferences (Authorization Rekey Required, Sanctions System, Pricing), Authorization Limit (MIS Group, UDF Group, Authorization Limit Currency, Authorization 1 Limit, Authorization 2 Limit, Network Release Limit), and Authorization Rekey Fields. The bottom section contains a table for Rekey Field Name and Description, and a footer with Maker/Checker, Date Time, Mod No, Record Status, Authorization Status, and an Exit button.

The preference for various payment networks via which FCUBS will initiate a payment request needs to be maintained on this screen for the same Source codes as in the previous section.

## Network Rule Maintenance

OBPM should maintain appropriate Network Rule maintenance (PMDNWRLE) to route the FCUBS request to the respective network.

- Based on the Payment type, FCUBS system will send one of the values (LCL, SWIFT, RTGS) in Service Level Proprietary field, which further will be used to build the network rules

- LCL- Local clearing payments
- SW IFT - SW IFT Payment messages
- RTGS - RTGS Payment messages

**Figure 2-10 Network Rule**

The screenshot displays the 'Network Rule Detailed' window. At the top, there are tabs for 'New' and 'Enter Query'. Below these, there are input fields for 'Host Code \*' and a dropdown for 'Channel Type \*' set to 'C2B'. A 'Go' button is next to the 'Host Code' field. Below this is a table with columns: 'Rule Name \*', 'Rule Expression', 'Network Code \*', and 'Priority'. There are navigation buttons (back, forward, search) and a 'Go' button above the table. Below the table is an 'Expression Details' section with a similar navigation bar. Underneath is a table with columns: 'Expression Section', 'Scope', 'LOP Type', 'LOP Data Type', 'LOP Function Type', 'Function Details', 'LOP Operand', and 'Operator'. A 'Populate' button is located below the 'Expression Details' table. At the bottom of the window, there are fields for 'Maker', 'Checker', 'Date Time', 'Mod No', 'Record Status', and 'Authorization Status'. An 'Exit' button is in the bottom right corner.

## Notification Maintenance

Maintain the FCUBS Source specific notification preferences for each network at PMDEXTNT screen.



**Figure 2-11 External Notification Queue**

The notification is a call from OBPM to the FCUBS Webservice – FCUBSEPSService that needs to be deployed. The gateway external system setup is required to be done for source code mentioned in the above screen shot. It is important to give the Notification System class as FCUBS and communication mode as Web Service.

## External System Functions Maintenance

Maintain the gateway preferences for the Source System which is maintained in the Source system field of External Payment System Maintenance screen (IFDEPSMT) in FCUBS, for the service names “PMInstrumentIssueService” and “PMInsStopPayService” with their respective operation codes.

**Figure 2-12 External System Functions**

The service names “FCUBSDDServices” and “Create Transaction” with their respective operation codes.

**Figure 2-13 External System Functions**

External System Functions

New Enter Query

External System \*  
Function \*  
Action \*  
Service Name  
Operation Code

Description  
Bulk SMS Check

Fields

Maker  
Checker

Date Time:  
Date Time:

Mod No

Record Status  
Authorization  
Status

Exit

## ECA System Maintenance

Create External Credit Approval Check system as 'FCUBS' in STDECAMT screen.

**Figure 2-14 External Credit Approval System**

External Credit Approval System

New Enter Query

Source System  
Description

Fields

Maker  
Checker

Date Time:  
Date Time:

Mod No

Record Status  
Authorization  
Status

Exit

Map the ECA system 'FCUBS' in the PMDECAMT.

**Figure 2-15 External Credit Approval System Detailed**

Maintain the In queue JNDI Name as MDB\_QUEUE\_RESPONSE, Outqueue JNDI Name as MDB\_QUEUE & Q Profile – as per the MDB Queue created on the App Server as in Section 2.2. Q Profile should be the IP Address where the JMS Queue has been created. The OBPM System will post the ECA request to UBS via these MDB queues. Maintain Queue Profile in 'PMDQPROF'.

**Figure 2-16 Queue Connection Profile**

Queue profile requires the context provider URL of the Application Server where the queue is created. All other parameters are same as mentioned above.

OBPM build the ECA request with details mentioned in section 2.2 and post to MDB\_QUEUE. FCUBS via GW MDB pulls the gateway request and call internally the ECA block process to create or undo the ECA block. Once the process is completed, the FCUBS post the response via gateway infra to MDB\_QUEUE\_RESPONSE.

MDB\_QUEUE\_RESPONSE is configured with a redelivery Queue as jms/ACC\_ENTRY\_RES\_BKP\_IN mentioned in section 2.2. This Queue internally pulls the response via OBPM MDB to complete ECA processing in OBPM.

Following are the Services and Operations used by OBPM to post in to FCUBS

- FCUBSAccService – QueryCustAccVal (Operation)
- FCUBSCAService – CreateEcablk, CloseEcablk (Operation)

## Accounting System Maintenance

Maintain the accounting system as 'FCUBS' in PMDACCMT.

**Figure 2-17 External Accounting System**

Maintain the In queue JNDI Name as MDB\_QUEUE\_RESPONSE, Outqueue JNDI Name as MDB\_QUEUE & Q Profile (refer section 2.4.5). The OBPM system will post the Accounting handoff request to FCUBS via these MDB queues.

Maintain Account System Mapping for the Accounting System and Networks (PMDACMAP).

**Figure 2-18 Account System Mapping**

The screenshot shows the 'Accounting System Mapping' window. It includes a 'New' button and an 'Enter Query' button. The main area contains input fields for 'Host Code \*' (marked with a red asterisk), 'Host Code Description', 'Default External Accounting System Code', and a 'Network Specific Maintenance' section. This section has a 'Go' button and a table with columns 'Network Code \*' and 'External Accounting System Code'. The bottom of the window features a status bar with fields for 'Maker', 'Checker', 'Date Time', 'Mod No', 'Record Status', 'Authorization Status', and an 'Exit' button.

OBPM build the Accounting Handoff request with details mentioned in section 2.2 and post to MDB\_QUEUE. FCUBS via GW MDB pulls the gateway request and calls internally the External Accounting request. Once the process is completed, FCUBS posts the response via gateway infra to MDB\_QUEUE\_RESPONSE.

MDB\_QUEUE\_RESPONSE is configured with a redelivery Queue as jms/ACC\_ENTRY\_RES\_BKP\_IN mentioned in section 2.2. This Queue internally pulls the response via OBPM MDB to complete Accounting Handoff processing in OBPM.

Following are the Services and Operations used by OBPM to post in to FCUBS:

- FCUBSIFService - CreateExtAccEcaEntries(Operation)

## Customer Maintenance

Create the customers in FCUBS system which will be automatically replicated and displayed at STDCIFCR in OBPM.

Creation of CIF, its amendments, closure and re-open status will get auto replicated to OBPM with the latest data.

## Account Maintenance

Create the accounts (Normal / Nostro type) in FCUBS system which will be automatically replicated and displayed at STDCRACC in OBPM.

Creation of accounts,, its amendments, closure and re-open status will get auto replicated to OBPM with the latest data.

## General Ledger Maintenance

Create the General Ledger in FCUBS system which will be automatically replicated and displayed at STDCRGLM in OBPM.

Creation of General Ledgers, its amendments, closure and re-open status will get auto replicated to OBPM with the latest data.

## Transaction Code Maintenance

Create the transaction code in FCUBS system which will be automatically replicated and displayed at STDCRTRN in OBPM.

Creation of transaction codes, its amendments, closure and re-open status will get auto replicated to OBPM with the latest data.

## OBPM to use FCUBS Dates

Maintain IS\_CUSTOM\_DATE parameter as 'Y' in cstb\_param table. By this, OBPM will use the 'Today' from sttm\_dates as the transaction booking date.

This parameter value should be modified to N in Production environment.

## Other Payments Maintenance

Refer OPBM Payments Core User Manual for the other Day 0 maintenance to be done.

## FAQ

This section describes the FAQ's for the scenarios noticed on accounting handoff between Oracle Banking Payments & Oracle FLEXCUBE Universal Banking systems, on the Co-deployed set-up.

1. Accounting handoff is in Pending status:  
OBPM isn't able to post the accounting entries to UBS accounting jms queue. If in the PM debugs, shows failed to initialize jndi factory, check the following in PMSSYSPPM –System parameters:
  - **PM.CTX.FACTORY** - weblogic.jndi.WLInitialContextFactory
  - **PM\_CTX\_PROVIDER** – Provider URL\*\* of the app server
  - a. \*\* Provider URL will be the http URL of the app URL. E.g.: if Application URL is <https://hostname:9011/FCJNeoWeb/> , then provider URL will be <https://hostname:9010>
  - b. In PMDQPROF screen – Q profile – Specify the correct Initial factory & provider URL (same as above). QCF should be MDBQCF. Ensure this MDBQCF is configured in WebLogic.
  - c. Update the Provider URL in Pmtm\_job\_param & pmtm\_system\_parameter tables.
  - d. Do restart the application after the above changes.
2. Accounting handoff is in Requested status:  
The accounting is passed successfully by OBPM, but response from UBS system is not received yet.
  - a. Check the MDB settings as indicated above & MDB gateway log.
  - b. Check gwtm\_in\_log & gwtm\_out\_log tables for the exception details & message CLOB. The correlation ID in the accounting request XML of the transaction will be key between the two systems.
3. Accounting handoff is in Rejected status:  
Accounting entries handed off by OBPM has been rejected by UBS.

- a. In OBPM application front end, go to the view transaction (PXDOVIEW /PBDOVIEW/ PADOVIEW), query the transaction. Click on View Q action. In Queue action log the sub screen, selecting the Accounting Response row, Click View response. Check the error & take corrective action as below:
- b. If error is “No data found for source combination” □ Maintain in GWDETFUN a record for source code FCUBS & CreateExtAccEcaEntries (NEW) combination.
- c. If error is “User doesn’t have rights to perform operation” □ Maintain in SMDUSRDF, for SYSTEM user, add roles for the respective branch.
- d. Additionally, ensure the below maintenance are done:
  - Maintain Source as FCUBS in CODSORCE
  - Maintain Source Preference for FCUBS Source and IF Module in CODUPLDM
  - Set Correlation pattern in GWDETSYS as Correlation ID. Not Message ID.

**Relevant debugs to be analyzed:**

MDB\_Kernel11.1\_gwlog \_<Date>.log : GW MDB Log

SYSTEM<Branchcode>: Db Dbg