

FCUBS-OBPM Integration Setup Guide

# **Oracle Banking Payments**

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FCUBS-OBPM Integration Setup Guide  
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# 1. Introduction

## 1.1 About This Manual

This manual is designed to help with Integration for a Co-deployed Set-up of Oracle Banking Payments with Oracle FLEXCUBE Universal Banking.

## 1.2 Audience

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

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

## 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>.

## 1.4 Organization

This manual is organized into the following chapters:

Chapter	Description
Chapter 1	Information about this Manual is specified in this section
Chapter 2	This chapter helps you co-deploy Oracle FLEXCUBE Universal Banking & Oracle Banking Payments product in a single instance.

## 2. Integration Guide

### 2.1 Introduction

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.

### 2.2 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:

- GWEJB
- GWMDB

##### Queue Maintenance:

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

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

Home > Summary of JMS Modules > PMONSMODULES > 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:	<input type="text" value="-1"/>	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. <a href="#">More Info...</a>
Time-to-Live Override:	<input type="text" value="2000"/>	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. <a href="#">More Info...</a>
Time-to-Deliver Override:	<input type="text" value="-1"/>	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. <a href="#">More Info...</a>
Delivery Mode Override:	<input type="text" value="No-Delivery"/>	The delivery mode assigned to all messages that arrive at the destination regardless of the DeliveryMode specified by the message producer. <a href="#">More Info...</a>

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.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled "Settings for MDB\_QUEUE\_RESPONSE" and has several tabs: Configuration, Monitoring, Control, Security, Subdeployment, and Notes. The "Configuration" tab is selected, and within it, the "Delivery Failure" sub-tab is active. The configuration includes a "Save" button at the top left. Below it, there's a descriptive text: "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." The configuration fields are:
 

- Redelivery Delay Override:** A text input field containing "-1".
- Redelivery Limit:** A text input field containing "0".
- Expiration Policy:** A dropdown menu with "Redirect" selected.
- Expiration Logging Format:** An empty text input field.
- Error Destination:** A dropdown menu with "jms/ACC\_ENTRY\_RES\_BKP\_IN" selected.

 Each field has a "More Info..." link to its right. On the left side of the console, there are several panels: "Change Center" (with "Activate Changes" and "Undo All Changes" buttons), "Domain Structure" (showing a tree view for PM14APP), "How do I..." (with links to configure queue message delivery failure options and JMS templates), and "System Status" (showing health of running servers as of 3:24 PM, with a bar chart showing 2 OK servers).

### Maintenances for Gateway:

#### **GWDEFUN - 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(s)
FCUBSAccService	QueryCustAccVal
FCUBSCAService	CreateEcablk CloseEcablk
FCUBSEPSService	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

## 2.3 Maintenances to be done in FCUBS

This section describes the specific maintenances needed in Oracle FLEXCUBE Universal

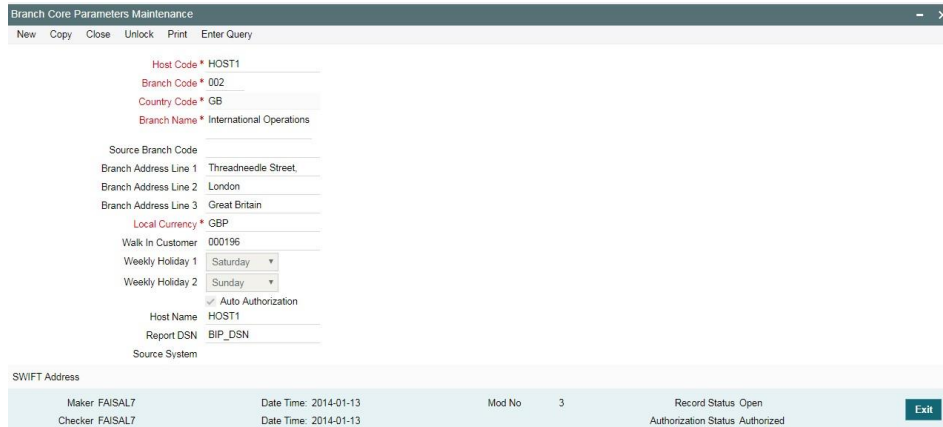
Banking (FCUBS) to install & integrate the same with Oracle Banking Payments (OBPM).

## 2.3.1 Branch Maintenance

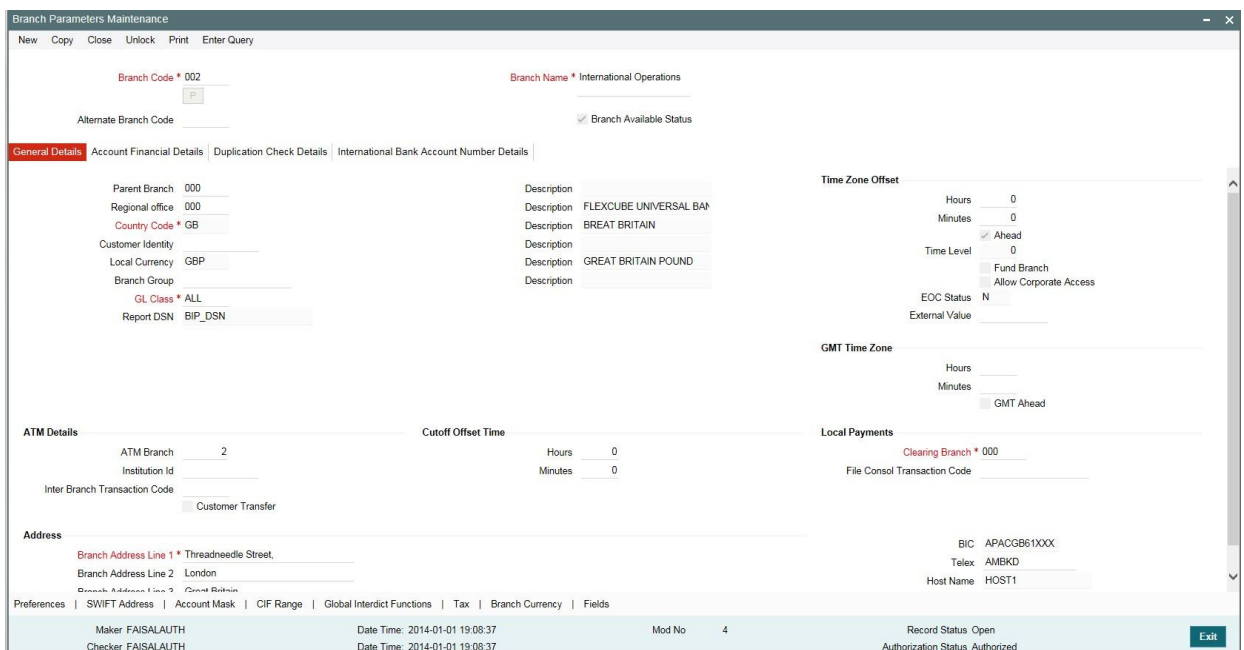
Create branch in STDCRBRN screen in FCUBS.

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

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



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



## 2.3.2 External Payments System Maintenance

Maintain an active record in External Payment System Maintenance screen (IFDEPSMT) for the service code "GenPayMessage" with all required fields.

- In the detail section of this screen, FCUBS should maintain OBPM Single Payment service details as given below
  - Service Name - PMSinglePaymentService
  - Operation Code - CreateSinglePayment
  - Web Service User Option - Choose the preferred option
  - Web Service User - Provide the User to be used in Gateway request
  - Web Service URL - Provide the WDSL URL of OBPM Single Payment Service

External Payment System Maintenance

New Copy Close Unlock Enter Query

External System \* OBPM  
Description External Payment system

Inter System Bridge GL \* 261377771

Source System \* OFCUB

Read Time Out (In Seconds) 10

Connection Time Out (In Seconds) 10

Service Code	Service Name	Operation Code	Web Service User Option	Web Service User	Web Service URL
GenPayMessage	PMSinglePaymentService	CreateSinglePayment	Predefined User	FCUSER3	http://10.184.155.

Maker FAISALAUTH Date Time: 2018-05-01 01:16:35 Mod No 20 Record Status Open  
 Checker FAISALAUTH Date Time: 2018-05-01 01:16:35 Authorization Authorized Status

Exit

### 2.3.3 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".



External System Functions

New Copy Close Print Enter Query

External System \* FCUBSCL  
 Function \* IFGEPSNO  
 Action \* NEW  
 Service Name FCUBSEPSService  
 Operation Code CreateEPSNotification

Description Notif Test  
 Bulk SMS Check

Fields

Maker RAMYA_A	Date Time: 2018-03-16 18:30:26	Mod No 1	Record Status Open	<b>Exit</b>
Checker RAMYA_A	Date Time: 2018-03-16 18:30:26		Authorization Authorized Status	

### 2.3.4 Upload Source Preference Maintenance

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

Upload Source Preferences Maintenance

New Copy Close Unlock Print Enter Query

Source Code \* FCUBSCL  
 Module Code \* IF

**Error Handling**

On Error \*   
 On Override \*   
 On Repairable Exception   
 On Queue Exception

**Post Upload**

Status \*   
 Purge Days  
 Allow Deferred Processing  
 Allow EOD with Deferred  
 Deletion Allowed

Function ID Preference

Maker RAMYA_A	Date Time: 2014-05-20 17:53:03	Mod No 1	Record Status Open	<b>Exit</b>
Checker RAMYA_A	Date Time: 2014-05-20 17:53:03		Authorization Authorized Status	



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

## 2.3.5 BIC Maintenance

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

## 2.3.6 Other Common Maintenances

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

## 2.4 Maintenances to be done in OBPM

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

### 2.4.1 Source Maintenance

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

The screenshot shows the 'Source Maintenance Detailed' window. Key fields include: Source Code \* FCUBSTD, Host Code \* LIEGE, Description FCUBS TD, Source Type Upload, Prefunded Payments Allowed (checked), Duplicate Check Period in Days 0, SSI Handling Not Required, Notification Required (checked), Validate Debit Authority, Incoming SWIFT, Intermediary Credit GL, Inbound credit to GL, and PSD Applicable. The bottom status bar shows: Maker DEEPIKA19, Checker DEEPIKA19, Date Time 2018-05-01 12:47:38, Mod No 6, Record Status Open, Authorization Status Authorized, 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 needs to be maintained as Prefunded GL in OBPM.



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

## 2.4.2 Source Network Preference Maintenance

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

The screenshot displays the 'Source Network Preferences Detailed' window. At the top, there are menu options: New, Copy, Close, Unlock, Print, Enter Query. Below this, several fields are populated: Host Code \* LIEGE, Source Code \* FCUBSRT, Network Code \* SWIFT, and Transaction Type \* Outgoing. To the right, there are fields for Description (FCUBS RT), Network Description (Cross Border), and Payment Type (Cross Border). The main area is divided into sections: Preferences (with checkboxes for Authorization Rekey Required, Sanctions System, and External Pricing Applicable), Authorization Limit (with input fields for Authorization Limit Currency, Authorization 1 Limit, Authorization 2 Limit, and Network Release Limit), and Authorization Rekey Fields (with a table header for Rekey Field Name and Description). The bottom status bar contains: Maker FCUSER1, Checker FCUSER1, Date Time: 2014-01-01 23:26:09, Mod No 1, Record Status Open, Authorization Status Authorized, 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.

## 2.4.3 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
  - SWIFT - SWIFT Payment messages
  - RTGS - RTGS Payment messages

Network Rule Detailed

New Copy Close Unlock Print Enter Query

Host Code \* LIEGE Channel Type \* Single Payment

Rule Name *	Rule Expression	Network Code *
<input checked="" type="checkbox"/> ACH	ValueOf { 'SERVICE_LEVEL' } EQUAL 'LCL'	ACH
<input type="checkbox"/> BOOK	ValueOf { 'SERVICE_LEVEL' } EQUAL 'BOOK'	BOOK
<input type="checkbox"/> RTGS	ValueOf { 'SERVICE_LEVEL' } EQUAL 'RTGS'	RTGS
<input type="checkbox"/> SWIFT	ValueOf { 'SERVICE_LEVEL' } EQUAL 'SWIFT'	SWIFT
<input type="checkbox"/> STEP2	ValueOf { 'SERVICE_LEVEL' } EQUAL 'SEPA'	STEP2

Expression Details

Scope	LOP Operand	Operator	ROP Type	ROP Data Type	ROP Operand
	SERVICE_LEVEL	Equal To	Constant	String	LCL

Maker DEEPIKA19 Date Time: 2014-01-01 00:50:09 Mod No 3 Record Status Open  
 Checker DEEPIKA19 Date Time: 2014-01-01 00:50:09 Authorization Status Authorized

Exit

## 2.4.4 Notification maintenance

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

External Notification Queue Detailed

New Copy Close Unlock Print Enter Query

Host Code \* LIEGE Source Code \* FCUBSTD Communication Type Web Service  
 Notification System Class FCUBS Timeout in Seconds


JMS Preferences  
 Outqueue JNDI Name Q Profile

WebService Preferences  
 Webservice URL http://10.184.158.19:7843/FCUBSEPSService/FCUBSEPSService Service FCUBSEPSService

ReST Preferences  
 ReST URL

Maker FCUSER4 Date Time: 2018-04-27 12:36:04 Mod No 1 Record Status Open  
 Checker FCUSER4 Date Time: 2018-04-27 12:36:04 Authorization Status Authorized

Exit

 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.

## 2.4.5 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 name “PMSinglePaymentService” with operation code “CreateSinglePayment”.

## 2.4.6 ECA System Maintenance

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

Map the ECA system 'FCUBS' in the PMDECAMT.

Maintain the In queue JNDI Name as MDB\_QUEUE\_RESPOMSE, 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

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

**STOP** OBPM build the ECA request with details mentioned in section 2.2 and post to MDB\_QUEUE. FCUBS via GWMDB 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 is internally pull 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 – CreateEcabl, CloseEcabl (Operation)


## 2.4.7 Accounting System Maintenance

Maintain the accounting system as 'FCUBS' in PMDACCMT.

Maintain the In queue JNDI Name as MDB\_QUEUE\_RESPOMSE, 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)

Network Code *	External Accounting System Code
SWIFT	FCUBS

 OBPM build the Accounting Handoff request with details mentioned in section 2.2 and post to MDB\_QUEUE. FCUBS via GWMDB pulls the gateway request and calls internally the External Accounting request. 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 Accounting Handoff processing in OBPM.

Following is the Service and Operation used by OBPM to post in to FCUBS:  
FCUBSIFService - CreateExtAccEcaEntries (Operation)

### 2.4.8 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 & re-open status will get auto replicated to OBPM with the latest data.

### 2.4.9 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 & re-open status will get auto replicated to OBPM with the latest data.

### 2.4.10 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 & re-open status will get auto replicated to OBPM with the latest data.

### 2.4.11 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 & re-open status will get auto replicated to OBPM with the latest data.

#### 2.4.12 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.

#### 2.4.13 Other Payments Maintenances

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

### 2.5 FAQ's

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 PMSSYSPM – 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. Eg: if Application URL is <https://hostname:9011/FCJNeoWeb/>, then provider URL will be t3:// 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\_parameters 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 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:
  - i. Maintain Source as FCUBS in CODSORCE
  - ii. Maintain Source Pref for FCUBS Source and IF Module in CODUPLDM
  - iii. 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