

Trade Finance – Oracle Banking Payments Integration

Oracle Banking Trade Finance

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Oracle Banking Trade Finance – Oracle
Banking Payment Integration User Guide

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1. Preface

1.1 Introduction

This document helps you acquaint with the information on inter-connecting Oracle Banking Trade Finance (OBTF) with Oracle Banking Payments (OBPM).

Besides this user manual, while maintaining the interface related details, you can invoke the context sensitive help available for each field in OBTF. This help describes the purpose of each field within a screen. You can obtain this information by placing the cursor on the relevant field and striking the <F1> key on the keyboard.

1.2 Audience

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

Role	Function
Back office data entry Clerks	Input functions for maintenance related to the interface
End of day operators	Processing during end of day
Implementation Teams	For setting up integration

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 chapter is organized into following chapters:





Chapter	Description
Chapter 1	<i>Preface</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	This chapter helps you co-deploy Oracle Banking Trade Finance & Oracle Banking Payments product in a single instance.
Chapter 3	<i>Function ID Glossary</i> provides has alphabetical listing of Function/Screen ID's used in the module with page references for quick navigation.

1.5 Acronyms and Abbreviations

Abbreviation	Description
OBTF	Oracle Banking Trade Finance
OBPM	Oracle Banking Payments
WSDL	Web Services Description Language
EA	External Accounting

1.6 Glossary of Icons

This user manual may refer to all or some of the following icons.

Icons	Function
	Exit
	Add row
	Delete row
	Option List

1.7 Related Information Sources

This user manual must be used in conjunction with the following Oracle Banking Trade Finance user manuals:

- Bills and Collections User Manual
- Letters of Credit User Manual

2. Trade Finance - Payments Integration

The integration between OBTF and OBPM enables banks to do the following:

- Outgoing payment message processing
- Bill Liquidation on external request from OBPM

This chapter contains the following sections:

- [Section 2.1, "Scope"](#)
- [Section 2.2, "Prerequisites"](#)
- [Section 2.3, "Integration Process"](#)

2.1 Scope

This section contains the following topic:

- [Section 2.1.1, "Integration Scope"](#)

2.1.1 Integration Scope

The following are the integration scope of OBTF with OBPM:

- Outgoing payment message processing,
 - OBTF initiates the request for outgoing payment message to OBPM on bill liquidation and LC creation.
 - OBTF during transaction creation initiates the request for outgoing payment messages to OBPM. Few scenarios include Bills Liquidation and LC creation based on the transfer type selected in the settlement instructions.
Transfer type selected can be "Bank Transfer" or "Customer Transfer" to initiate payment request to OBPM.
- Outgoing payment
 - System to populate export Bill details to common core.
 - System to provide an EAC and an EA web service, to be consumed by OBPM.
 - On receiving an incoming MT202, OBPM validates the "Tag21-Related Reference Number" if the tag values matches with bill number in common core OBPM will initiate an EAC request to OBTF. In turn OBTF validates the bill reference number and responds to OBPM.
 - On receiving a success EAC response OBPM will initiate an EA request to OBTF. In turn OBTF trigger bill liquidation on a received reference.

2.2 Prerequisites

This section contains the following topics:

- [Section 2.2.1, "Prerequisites in Oracle Banking Trade Finance"](#)
- [Section 2.2.2, "Prerequisites in Oracle Banking Payments"](#)
- [Section 2.2.3, "Prerequisites in Common Core OBTF and OBPM"](#)

2.2.1 Prerequisites in Oracle Banking Trade Finance

The prerequisites in OBTF for this integration are as follows:

- The parameter 'PAYMENT_PROCESSOR' in CSTB_PARAM should be 'E' (External) for OBTF to interface with OBTF.
- Maintain an active record in Trade Finance External System Maintenance screen (IFDTFEPM) 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 Single Payment Service details as below: Bridge GL to be maintained in Inter System Bridge GL

Field	Description
External System	Should be source code of external system e.g.: 'OBPM'
Inter System Bridge GL	Bridge GL between OBTF and OBPM
Source System	OBTF
Entity Id	Entity Id used between OBTF and OBPM interaction
External System Type	Payments
Read Time Out	Read Time out in OBPM
Connection Time Out	Connection wait time at OBTF for the Payment request initiated
Archival Days	Number of days to archive the payment messages

Service1 - Single Payment Service	
Field	Description
Service Code	GenPayMessage
Service Name	PMSinglePayOutService
Operation Code	CreateSinglePayment
Rest/Web Service User Option	Choose Contract User / Predefined User
Rest/Web Service User	Mention user in case of Predefined User
Rest/Web Service URL	Mention http URL of OBPM http://ip:portnumber//PMReST/obpmrest/payments/singlepayout

Service2 - Inbound Cross Border Payments	
Field	Description
Service Code	GenRecvNotice
Service Name	PMXborderInService
Operation Code	CreateXborderIn
Rest/Web Service User Option	Choose Contract User / Predefined User
Rest/Web Service User	Mention user in case of Predefined User
Rest/Web Service URL	Mention http URL of OBPM http://ip:portnumber//PMReST/obpmrest/payments/xborderin

Trade Finance External System Maintenance

New Copy Close Unlock Enter Query

External System * OBPM
 Description External Payment System
 External System Type * Payments
 Read Time Out (In Seconds) 70
 Infer System Bridge GL * 261100005
 Connection Time Out (In Seconds) 50
 Source System * OBTF
 Archival Days 3
 Entity ID * ENTITY_ID1

Service Code	Service Name	Operation Code	Rest/Web Service User Option	Rest/Web Service User
<input type="checkbox"/> GenPayMessage	PMSinglePayOutService	CreateSinglePayment	Contract User	http://whf00b
<input checked="" type="checkbox"/> GenRecvNotice	PMXborderInService	CreateXborderIn	Contract User	http://whf00b

1 Of 1

Maker ADMINUSER2 Date Time: 2020-03-16 03:48:04 Mod No 6 Record Status Open
 Checker ADMINUSER2 Date Time: 2020-03-16 03:48:04 Authorization Authorized Status

Exit

➤ Maintain the External System Functions (GWDEFUN) for the below Source codes

Field	Suggested values
External System	OBTF<Module Code>
Function	IFGTFPNO
Action	NEW
Service Name	OBTFEPSService
Operation Code	CreateEPSNotification

External System Functions

New Copy Close Print Enter Query

External System * OBTFBC
 Function * IFGTFPNO
 Action * NEW
 Service Name OBTFEPSService
 Operation Code CreateTFEPSNotif

Description OBTFBC
 Bulk SMS Check

Fields

Maker SOMESH1 Date Time: 2019-11-22 14:31:23 Mod No 1 Record Status Open
 Checker SOMESH2 Date Time: 2019-11-22 14:32:15 Authorization Authorized Status

Exit

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

Field	Suggested values
Source Code	OBTF
Module Code	BC/LC/Specific Module Codes
On Error	Reject
On Override	Ignore
Post Upload Status	Authorized

- Upload BIC directory and ensure that the same are listed at ISDBICDE, which OBTF will use, to transact payments.
- Below are the scheduler jobs configured for the Integration. Make sure that these jobs are running using SMSJOBBER screen.
 - TFEPSGENPAYMENT - Scheduler job for processing the Payment request
 - TFEPS_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
 - TFGenPayMessage.ADF
- Refer Core Services User Manual, for the other Day 0 maintenances to be done for OBTF.

2.2.2 Prerequisites in Oracle Banking Payments

The prerequisites in Oracle Banking Payments for this integration are as follows

- You Maintain the Source code with which OBTF will hand off payment requests at PMDSORCE- Source maintenance screen.

Source Maintenance Detailed

New Copy Close Unlock Print Enter Query

Source Code * OBTFBC MIS Group _____
 Host Code * HOST1 UDF Group _____
 Description _____
 Source Type Upload

Prefunded Payments

Prefunded Payments Allowed Prefunded Payments GL 261100005
 Pricing Applicable
 Auto-process Claims for Prefunded Payments

Duplicate Check Fields Duplicate Check Period in Days 0

Accounting & Message Preference Preferred Reference Source Reference

Other Preferences

SSI Handling Not Required
 Validate Debit Authority
 Incoming SWIFT
 PSD Applicable
 Notification Required
 Allow Back Value Dated Book Transfer

Credit to GL Payments

Inbound credit to GL Intermediary Credit GL 261100005
 Pricing Applicable

Auto Queue Preferences

System Action Auto roll-over

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

- For all OBTF modules where outgoing payment or receive notice is initiated, the source code is OBTF <Module-ID>. For example, the source code for the BC module is OBTFBC.
- Each record maintained in Source Maintenance Detailed screen (PMDSORCE) should have the below preferences:
 - Pre-funded Payments GL or Intermediary Credit GL should match Inter System Bridge GL maintained in Trade Finance External System Maintenance screen (IFDTFEPM) of OBTF.



Note: This Inter System Bridge GL should be available for both OBTF & OBPM.

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

Source Network Preferences Detailed

New Copy Close Unlock Print Enter Query

Host Code * HOST1
 Source Code * OBTFBC Description _____
 Network Code * SWIFT Network Description SWIFT Network
 Transaction Type * Outgoing Network Type Description _____

Preferences

Authorization Rekey Required MIS Group _____
 UDF Group _____

Sanctions System Sanction Check Required

Authorization Limit
 Authorization Limit Currency _____
 Authorization 1 Limit _____
 Authorization 2 Limit _____
 Network Release Limit _____

Pricing External Pricing Applicable

Accounting Preference

Maker PREETHI_A Date Time: 2019-01-24 21:13:35 Mod No 1 Record Status Open
 Checker PREETHI_A Date Time: 2019-01-24 21:13:35 Authorization Authorized Status

Exit

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

- OBPM should maintain appropriate Network Rule maintenance (PMDNWRLE) to route the OBTF request to the respective network. Based on the Payment type, OBTF system will send one of the values (LCL or SWIFT) in Service Level Proprietary field, which further will be used to build the network rules,
 - LCL - Local clearing payments
 - SWIFT Messages - SWIFT Payment messages

Network Rule Detailed

Host Code * HOST1 Channel Type * Single Payment

Rule Name *	Rule Expression	Network Code *
GT 2000		TARGET 12
CBPYMNT	ValueOf { 'SERVICE_LEVEL' } EQUAL 'SDVA' AND (ValueOf { 'CHARGE_BEARER' } EQUAL 'B' OR ValueOf { 'CHARGE_BEARER' } EQUAL 'O' OR ValueOf { 'CHARGE_BEARER' } EQUAL 'S' OR ValueOf { 'CHARGE_BEARER' } EQUAL 'DEBT' OR ValueOf { 'CHARGE_BEARER' } EQUAL 'CRED' OR ValueOf { 'CHARGE_BEARER' } EQUAL 'SHAR')	INTERNAL
BOOK	ValueOf { 'TRANSFER_AMOUNT' } EQUAL 1111	BOOK
SWIFT	ValueOf { 'SERVICE_LEVEL' } EQUAL 'SWIFT'	SWIFT

Expression Details

Expression Section	Scope	LOP Type	LOP Data Type	LOP Function Type	Function Details	LOP Oper
1		Parameter	String		Function Details	SERVICE LEVEL

Maker USERCD3 Date Time: 2019-07-10 09:05:45 Mod No 5 Record Status Open
 Checker USERCD3 Date Time: 2019-07-10 09:05:45 Authorization Authorized **Exit**

➤ The OBTF Source specific notification preferences for each network at PMDEXTNT screen.

External Notification Queue Detailed

Host Code * HOST1 Communication Type Web Service

Source Code * OBTFBC Timeout in Seconds

Notification System Class OBTF

JMS Preferences

Outqueue JNDI Name Queue Profile

WebService Preferences

WebService URL http://10.40.65.39:7003/OBTFEPSService/OBTFEPSService?WSDL Service OBTFEPSService

ReST Preferences

ReST URL

Maker PREETHI_A Date Time: 2020-01-11 00:11:02 Mod No 3 Record Status Open
 Checker PREETHI_A Date Time: 2020-01-11 00:11:02 Authorization Authorized **Exit**

STOP The notification is a call from OBPM to the OBTF Webservice - OBTFEPSService 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 OBTF and communication mode as Web Service.

2.2.3 **Prerequisites in Common Core OBTF and OBPM**

The following common core maintenances need to perform for Integration.

- Customer Maintenance - Create the customers in STDCIFCR
- Account Maintenance - Create Accounts (CASA / NOSTRO) in STDCRACC
- General Ledger Maintenance - Create a General Ledger in STDCRGLM.
- Transaction code Maintenance - Create the Transaction code in STDCRTRN
- OBPM to use OBTF Dates - Maintain IS_CUSTOM_DATE parameter as 'Y' in cstb_param table. By this, OBPM will use Today from sttm_dates as the transaction booking date.
- Note: Above point is applicable only to Co-Deployed setups between OBTF and OBPM.
- Other Payments Maintenances - Refer Oracle Banking Payments Core User Manual, for the other Day 0 maintenances.



For detailed information on above mentioned screens, refer to Oracle Banking Payments Core User Manual

2.3 **Integration Process**

This section contains the following topics:

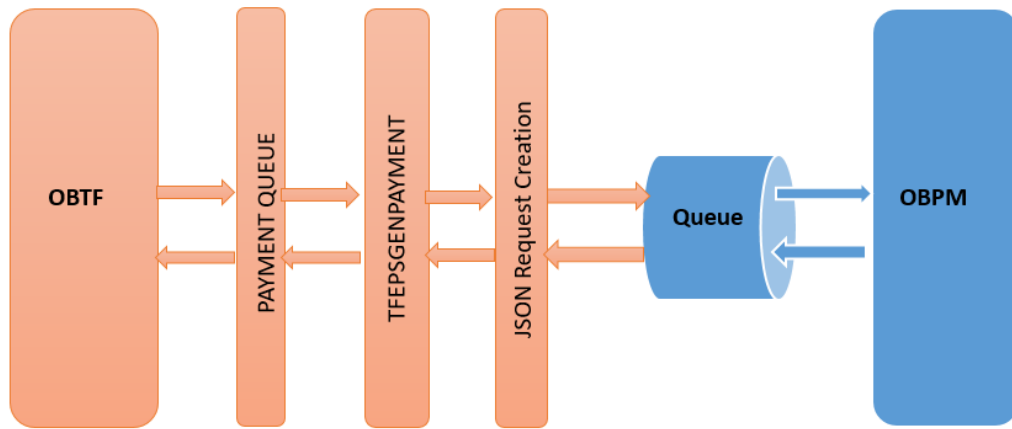
- [Section 2.3.1, "Installation Modes"](#)
- [Section 2.3.2, "Integration Processing"](#)

2.3.1 **Installation Modes**

The following installation modes are described in the upcoming sections:

- ASYNC Processing,
 - In OBTF a transaction is created with payment message initiation to OBPM system.
 - TFEPGENPAYMENT scheduler fetches records from Queue and handovers to OBPM.
 - In OBPM a transaction is created and response is sent to OBTF
 - OBTF updates the queue references accordingly.

OBTF Outgoing Payment Request

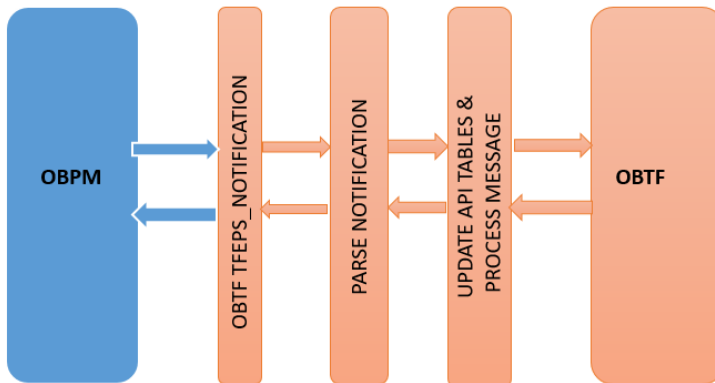


OBTF Txn **SYNC** | OBTF Scheduler Payment Request and Processing at OBPM **ASNC**

- OBTF outgoing request initiation to OBPM
- Payment transaction creation at OBPM for OBTF request
- Transaction creation response sent from OBPM to OBTF for further processing.
- Processed OBPM Payment response handling at OBTF

- Upon successful transaction creation at OBPM, OBPM decides in sending notification to OBTF.
- Once OBTF receives notification, OBTF parses notification, extracts payment message and updates the message CLOB of the OBTF transaction.
- Upon notification updated at OBTF, OBPM receives the OBTF processed status and updates the external system (OBTF) processed status at OBPM.

Notification and Payment Message Processing at OBTF



OBPM initiates notification to OBTF in turn OBTF extract and process messages **AYSNC**

- Upon successful transaction at OBPM, OBPM decides and sends notification to OBTF
- OBTF receives notification, parses it, updates the API tables and appends parsed message in OBTF transaction
- OBTF sends the response back to OBPM after parsing and updating at OBTF
- Notification received status at OBTF will be updated in OBPM

2.3.2 Integration Processing

This section contains the following topics:

- [Section 2.3.2.1, "OBTF Payment Request Initiation"](#)
- [Section 2.3.2.2, "External Payment System Queue"](#)
- [Section 2.3.2.3, "External Payment System Queue History"](#)
- [Section 2.3.2.4, "External Bill Liquidation"](#)

2.3.2.1 OBTF Payment Request Initiation

In OBTF during the creation of Bills and collections / Letter of credit transactions user the provision to do the following or system based on the product setup and settlement instructions maintained for the parties shall do the following

- a) After settlement pickup of a OBTF transaction, In settlement instructions component to be selected and navigate to the Payment details tab. E.g.: BILL_LIQ_AMTEQ
- b) In Payment details tab choose "Payment By" as "Message" and choose the "Transfer Type" as either "Bank Transfer" or "Customer Transfer". Provide other required details any for "Details of Charge", "Sender to Receiver Information", etc.,
- c) Visit parties and provide required information about the parties involved like Account details and address details.
- d) Visit Other Details and choose "Bank Operation Code"

Refer following documents for making trade transactions and understanding on settlement instructions.

- Settlements User Guide
- Bills and Collections User Guide - Section 6.1.4 Settlement
- Islamic Bills and Collections User Guide - Section 5.3.6 Specify Settlement Instructions
- Letters of Credit User Guide - Section 7.2.2 Reverse LC Liability - Settlements portion
- Islamic Letters of Credit User Guide - Section 7.2.1 Islamic LC Contract Availment - Settlements portion

2.3.2.2 External Payment System Queue

You can view the details of payment request sent or to be send to an external payments system through 'External Payment System Queue' screen. You can invoke this screen by typing 'IFDTPQU' in the top right corner of the Application toolbar and clicking the adjoining arrow button.

Queue Reference Number

Specify the queue reference number and click 'Execute Query' to view the details of payment request sent to external payment system.

Process Status

The system displays the process status. The list displays the following options:

Process	Description
Not Authorized	Contract initiated and the payment request is unauthorized
Un Processed	Payment request pending for processing
Web Service Connection Timeout	Web service call, timed out during payment request processing
Payment Approved	Payment request initial validation is successful and request is accepted
Payment Rejected	Payment request initial validation is failed and request is rejected
Payment Processed	All payment processing is completed and request is successfully processed
Repair	Payment request moved to repair queue due to exception in payment life-cycle
Contract Cancelled	Contract initiated and the payment request is reversed
Future dated	Payment contract not yet initiated. Future value dated payment request.
Payment Cancelled	Payment contract cancelled from one of the queue in external payment system
Acknowledgement Received	Acknowledgment (ACK) received from payment network

Negative Acknowledgement Received	Negative acknowledgment (NACK) received from payment network
-----------------------------------	--

Click 'Error Information' button to view Error Information screen. This screen displays the error or warning codes and messages received as response for the payment request.

Click 'Notifications' button to view the notifications screen. This screen displays the notification details received from the external payment system

Process Status

The system displays the process status. The list displays the following options:

Process	Description
Un Processed	Notification is pending for processing
Processed	Notification processed successfully
Processing Failed	Notification processing failed due to unexpected failure
Improper Notification	Notification received is not in proper format
Empty Notification	Empty notification received

2.3.2.3 External Payment System Queue History

You can view the details of external payment request in 'External Payment System Queue History' screen. You can invoke this screen by typing 'IFDEPSQH' in the top right corner of the Application toolbar and clicking the adjoining arrow button.

Click 'Enter Query' to view the archived records along with the archival date.

2.3.2.4 External Bill Liquidation

The following are the integration scope of OBTF with OBPM for external bill liquidation:

External Bill Entries

On export bill creation Bill related details will be exposed to common core system screen External Trade Contract Input (STDCRTRD) using common core service FCUBSCoreentitiesService and operation CreateExternalTrade. OBPM system uses the common core External Trade Contract Input data for an Incoming MT202 to Bills.

OBPM calls the OBTF webservice OBTFEPSService and operation QueryEXTBCCContract to validate the bill. OBPM calls OBTF webservice OBTFEPSService and operation CreateExtBCEcaEntries for posting accounting entries. Once OBPM calls OBTF for accounting entries OBTF will initiate the Bill liquidation based on the OBPM request.

Provider	Service Name	Operation Code	Consumer
Common Core	FCUBSCoreentitiesService	CreateExternalTrade	OBTF
Common Core	FCUBSCoreentitiesService	ModifyExternalTrade	OBTF
Common Core	FCUBSCoreentitiesService	QueryExternalTrade	OBTF,OBPM

- EAC web service to validate the provided account number (Bill reference number).System to validate the availability of bill reference number along with the bill status and bill currency of received bill reference number(<CUST_AC_NO>) on receiving EAC request and respond with success or failure status(Synchronous response).

Provider	Service Name	Operation Code	Consumer
OBTF	OBTFEPSService	QueryEXTBCCContract	OBPM

- EA web service to process liquidation on the provided account number (Bill reference number).System to initiate liquidation event on receiving EA request and respond with the success status. Asynchronous liquidation event will be triggered on the received reference number (<ACNO> of EA request).
- External Bill Entries to view the details of EA request and screen External Bill Liquidation Query to view the EA response and to retry the external bill liquidation in case of EA failure based on the parameter Maximum Retry count at Bills and Collection Branch Parameter.

Provider	Service Name	Operation Code	Consumer
OBTF	OBTFEPSService	CreateExtBCEcaEntries	OBPM

 Refer Common Core - Core Entities and Services User Guide and BC User Manual for Bills Liquidation user manual.

You can view the details of external bill entries through 'External Bill Entries' screen. You can invoke this screen by typing 'IFDEXBIL' in the top right corner of the Application toolbar and clicking the adjoining arrow button.

Existing accounting entries on liquidation events continues where as it debits bridges GL and

credits customer account.

Click **Accounting Entries** to view the accounting entries for the external bill event.

The details of the accounting entries that were passed for the event are viewed here. The accounting entries that are passed depend on the type of bill processed.

The following information is provided for account entries:

- Contract Branch
- Contract Reference
- Contract Currency
- Debit or Credit
- Amount Tag
- Foreign Currency Amount
- Rate
- Local Currency Amount
- Date
- Value Date
- Event
- All MIS details that were allowed will also be displayed.

External Bill Liquidation Query and Retry

External Bill Query screen allows the user to resolve the technical failures in case of EArequest. Whenever an EA request is received from Payments through GW Webservice, Liquidation gets triggered by OBTF.

If Liquidation triggered by OBTF did not processed successfully, then retry liquidation provided in IFDEXLIQ to be enabled for repaired process records.

On click of retry liquidation external liquidation to be triggered automatically till the retry count provided in "Bills Branch Parameter maintenance" screen.

If external liquidation from external system is failed corresponding Bill should not be allowed for further operations except Query and Copy.

You can view the details of bill liquidation request through 'External Bill Liquidation Query' screen. You can invoke this screen by typing 'IFDEXLIQ' in the top right corner of the Application toolbar and clicking the adjoining arrow button.

External Bills Liquidation Query

Enter Query

Group Reference Number *

Branch Code

Liquidation Bill Number

User Id

Liquidation Status

Repair Reason

Retry Count

Credit Details

Account Number

Transaction Number

Transaction Date

Value Date

Currency

Amount

Debit Details

Account Number

Transaction Number

Transaction Date

Value Date

Currency

Amount

Liquidation Status

The system displays the liquidation status. The list displays the following options:

Liquidation Status	Description
Un Processed	Bill liquidation is pending for processing
Processed	Bill liquidation processed successfully
Processing Failed	Bill liquidation processing failed due to unexpected failure
Improper Notification	Bill liquidation received is not in proper format
Empty Notification	Bill liquidation notification received

3. Function ID Glossary

CODUPLDM	5	PMDNWRLE	8
GWDEFUN	5	PMDSORCE.....	6, 7
IFDEPSQH.....	14	PMDSORNW.....	7
IFDEXBIL.....	15	SMSJOBBER.....	6
IFDEXLIQ.....	16	STDCIFCR	9
IFDEXLIQ'.....	16	STDCRACC	9
IFDTFEPM.....	4, 7	STDCRGLM	9
IFDTFPQU	11	STDCRTRD.....	14
ISDBICDE	6	STDCRTRN.....	9
PMDEXTNT	8	TFEPGENPAYMENT.....	6, 9