

Oracle Banking Trade Finance – Oracle Banking Trade  
Finance Process Management Integration User Guide

## **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  
 Inter System Bridge GL \* 23811020006031  
 Source System \* OBTF  
 Entity ID \* ENTITY\_ID1

External System Type \* Payments

Read Time Out (In Seconds) 70  
 Connection Time Out (In Seconds) 50  
 Archival Days

1 Of 1

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

Maker ABHAY2 Date Time: 04-JUN-2019 09:31:18 Mod No 10 Record Status Open  
 Checker ABHAY2 Date Time: 04-JUN-2019 09:31:18 Authorization Authorized Status

Exit

Trade Finance External System Maintenance

New Copy Close Unlock Enter Query

External System \* OBPM  
 Description EXTERNAL PAYMENT SYSTEM  
 Inter System Bridge GL \* 23811020006031  
 Source System \* OBTF  
 Entity ID \* ENTITY\_ID1

External System Type \* Payments

Read Time Out (In Seconds) 70  
 Connection Time Out (In Seconds) 50  
 Archival Days

1 Of 1

Rest/Web Service User Option	Rest/Web Service User	Rest/Web Service URL
Contract User		http://fcubs.oracle.com:7003/PMReST/obpmrest/payments/singlepayout
Contract User		http://fcubs.oracle.com:7003/PMReST/obpmrest/payments/xborderin

Maker ABHAY2 Date Time: 04-JUN-2019 09:31:18 Mod No 10 Record Status Open  
 Checker ABHAY2 Date Time: 04-JUN-2019 09:31:18 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 Function Summary

Save Export Refresh Reset Clear All Details

**Case Sensitive**

Authorization Status

Function IFGTFPNO

External System

Record Status

Action

Records per page 15  1 Of 1  Lock Columns 0

<input type="checkbox"/>	Authorization Status	Record Status	Function	Action	External System
<input type="checkbox"/>	Authorized	Open	IFGTFPNO	NEW	OBTF
<input type="checkbox"/>	Authorized	Open	IFGTFPNO	NEW	OBTFBC
<input type="checkbox"/>	Authorized	Open	IFGTFPNO	NEW	OBTFCL

**Exit**

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 ABHAY2  
Checker ABHAY2

Date Time: 03-JUN-2019 09:53:41

Mod No 1

Record Status Open

Authorization Authorized  
Status

**Exit**

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

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

Function Id Preferences			
Maker JAPAC1	Date Time: 04-JUN-2019 05:41:52	Mod No	1
Checker JAPAC2	Date Time: 04-JUN-2019 05:42:12	Record Status	Open
		Authorization	Authorized
		Status	Status

- 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 Reopen Print Enter Query

Source Code \* OBTFBC MIS Group \_\_\_\_\_  
 Host Code \* HOST\_US1 UDF Group \_\_\_\_\_  
 Description \_\_\_\_\_  
 Source Type Upload

**Prefunded Payments**

Prefunded Payments Allowed Prefunded Payments GL 23811020006031  
 Pricing Applicable  
 Auto-process Claims for Prefunded Payments

**Duplicate Check Fields** Duplicate Check Period in Days 0

**Accounting & Message Preference** Preferred Reference Transaction Reference

**Other Preferences**

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

**Credit to GL Payments**

Inbound credit to GL Intermediary Credit GL 23811020006031  
 Pricing Applicable

**Auto Queue Preferences**

System Action Auto roll-over

Duplicate Check Fields | Response Details

Maker UIMANI2 Date Time: 05-JUN-2019 03:46:35 Mod No 5 Record Status Closed  
 Checker UIMANI1 Date Time: 05-JUN-2019 03:46:51 Authorization Authorized Status

Exit

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. Maintain for both "Transaction Type" "Incoming" and "Outgoing".

Source Network Preferences Detailed

New Copy Close Unlock Print Enter Query

Host Code \* HOST\_US1

Source Code \* OBTFBC

Network Code \* SWIFT

Transaction Type \* Outgoing

Description

Network Description SWIFT

Network Type Description Cross-border

**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 LAKSHMI2 Date Time: 04-JUN-2019 11:36:14 Mod No 1 Record Status Open

Checker LAKSHMI2 Date Time: 04-JUN-2019 11:36:14 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

New Copy Unlock Print Enter Query

Host Code \* HOST1

Channel Type \* Single Payment

1 Of 1

Rule Name *	Rule Expression	Network Code *
<input type="checkbox"/> RUGS	GT 2000	TARGET
<input type="checkbox"/> 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
<input type="checkbox"/> BOOK	ValueOf { 'TRANSFER_AMOUNT' } EQUAL 1111	BOOK
<input type="checkbox"/> SWIFT	ValueOf { 'SERVICE_LEVEL' } EQUAL 'SWIFT'	SWIFT

**Expression Details**

1 Of 1

Expression Section	Scope	LOP Type	LOP Data Type	LOP Function Type	Function Details	LOP Oper
<input checked="" type="checkbox"/> 1		Denominator	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.

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

### 2.2.3 Prerequisites in Common Core OBTFC 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 OBTFC 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 OBTFC and OBPM.
- Other Payments Maintenances - Refer Oracle Banking Payments Core User Manual, for the other Day 0 maintenances.

**STOP** 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:

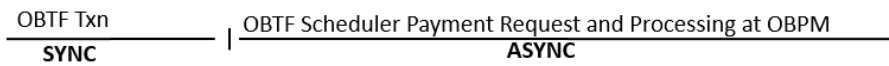
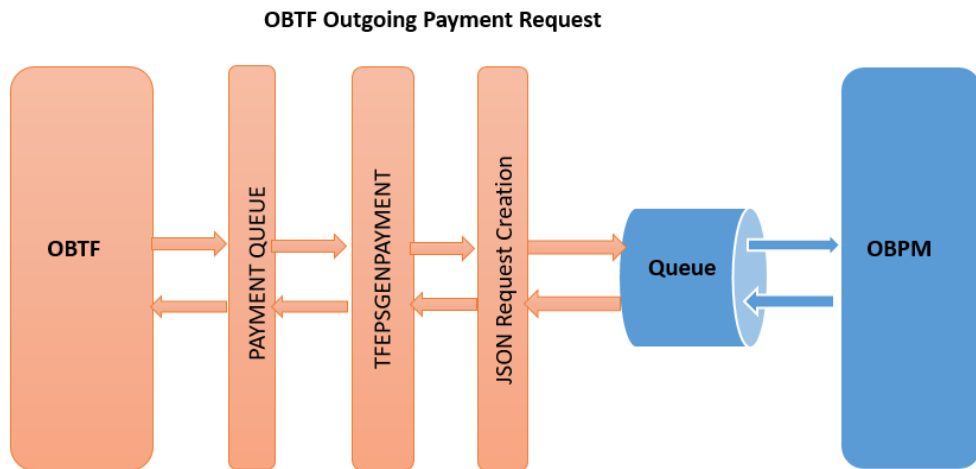
- [Section 2.3.1, "Installation Modes"](#)
- [Section 2.3.2, "Integration Processing"](#)

### 2.3.1 Installation Modes

The following installation modes are described in the upcoming sections:

- ASYNC Processing,
  - In OBTFC a transaction is created with payment message initiation to OBPM system.
  - TFEPSGENPAYMENT scheduler fetches records from Queue and handovers to OBPM.
  - In OBPM a transaction is created and response is sent to OBTFC

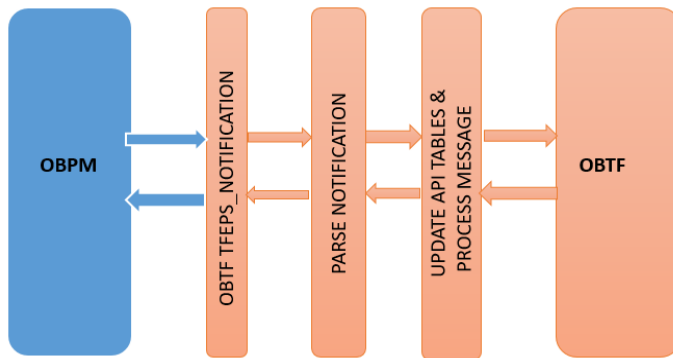
- OBTF updates the queue references accordingly.



- 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.

Trade Finance External Payment System Queue Detailed

Enter Query

Queue Reference Number \* 0912155044881644  
 External Payment System Reference Number 2109101035300000  
 Source Reference Number CFLMB01191551002  
 Customer Reference Number NONE  
 Process Status

Contract Reference Number CFLMB01191551002  
 Initiating Module BC  
 Event Sequence Number 3  
 Amount Tag BILL\_LIQ\_AMT

**Main** Parties Parties Other Details

Host Code HOST\_US1  
 Service Level Proprietary SWIFT  
 Transaction Branch CFL  
 Initiation Date 04-JUN-2019  
 Requested Execution Date 04-JUN-2019  
 Activation Date 04-JUN-2019  
 Transfer Type   
 Transfer Currency USD

Service Code GenPayMessage  
 Source Code OBTFBC  
 Web Service User LAKSHMI2  
 Customer No 00000733

**Debtor Details**  
 Name Demo Bank  
 Account Number 23811020006031

Error Information | Notifications

**Exit**

Trade Finance External Payment System Queue Detailed

Enter Query

Queue Reference Number \* 0912155044881644  
 External Payment System Reference Number 2109101035300000  
 Source Reference Number CFLMB01191551002  
 Customer Reference Number NONE  
 Process Status

Contract Reference Number CFLMB01191551002  
 Initiating Module BC  
 Event Sequence Number 3  
 Amount Tag BILL\_LIQ\_AMT

**Main** Parties Parties Other Details

Prefunded Payments

Remarks  
 Charge Bearer   
 Beneficiary Charge Amount  
 DCN 0912155044874573  
 Running Number 1  
 Instrument Code  
 Instrument Number

**Creditor Details**  
 Name BIRA BANK  
 Account Number CFL000735000016  
 Account Currency USD  
 Account Branch CFL

Error Information | Notifications

**Exit**

**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.

The screenshot shows the 'External Payment System Queue History' application window. The 'Enter Query' section includes the following fields:

- Queue Reference Number \*
- External Payment System Reference Number
- Source Reference Number
- Customer Reference Number
- Process Status: Not Authorized (dropdown)
- Contract Reference Number
- Initiating Module
- Event Sequence Number
- Amount Tag
- Archival Date: dd-MMM-yyyy

Navigation tabs: Main (selected), Parties, Parties, Other Details.

Additional fields include:

- Host Code
- Service Level Proprietary
- Transaction Branch
- Initiation Date: dd-MMM-yyyy
- Requested Execution Date: dd-MMM-yyyy
- Activation Date: dd-MMM-yyyy
- Transfer Type: Customer (dropdown)
- Transfer Currency
- Service Code
- Source Code
- WebService User
- Customer No

Section: Debtor Details

- Name
- Account Number
- Account Currency

Buttons: Error Information | Notifications, Exit

The screenshot shows the 'External Payment System Queue History' application window. The 'Enter Query' section includes the following fields:

- Queue Reference Number \*
- External Payment System Reference Number
- Source Reference Number
- Customer Reference Number
- Process Status: Not Authorized (dropdown)
- Contract Reference Number
- Initiating Module
- Event Sequence Number
- Amount Tag
- Archival Date: dd-MMM-yyyy

Navigation tabs: Main (selected), Parties, Parties, Other Details.

Additional fields include:

- Transaction Amount
- Prefunded Payments
- Remarks
- Charge Bearer: Beneficiary - All Charges (dropdown)
- DCN
- Running Number
- Instrument Code
- Instrument Number
- Account Currency
- Account Branch

Section: Creditor Details

- Name
- Account Number
- Account Currency
- Account Branch

Buttons: Error Information | Notifications, Exit

### 2.3.2.4 External Bill Liquidation

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

#### **Prerequisites at OBPM:**

##### **Service Profile ID (PMDSPROF):**

Create a Service Profile ID with Service Type as 'Webservice' in Service Profile ID (PMDSPROF) maintenance.

Service Profile Detail

New Copy Close Unlock Print Enter Query

Service Profile ID \* WEBSERVICE

Service Type \* Web Service

User Name \* SYSTEM

Password

Service Source Code

Application ID

Retry Count

Retry Interval

Connection Time Out(In Seconds)

Read Time Out(In Seconds)

Maker UIMANI1 Date Time: 05-JUN-2019 08:34:12 Mod No 1 Record Status Open

Checker UIMANI2 Date Time: 05-JUN-2019 08:34:32 Authorization Authorized Status

Exit

##### **ECA System Maintenance (STDECAMT)**

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

External Credit Approval System

New Copy Close Unlock Print Enter Query

Source System OBTF

Description OBTF

Maker LAKSHMI3 Date Time: 27-AUG-2019 01:26:20 Mod No 1 Record Status Open

Checker LAKSHMI2 Date Time: 27-AUG-2019 01:26:43 Authorization Authorized Status

Exit

##### **External Credit Approval System (PMDECAMT)**

Maintain External Approval System details for the ECA system 'OBTF' in the PMDECAMT.

- ECA System Class should be 'OBTF'
- Inter System Bridge GL should be with appropriate value. It should be in same as interbridge GL maintained at OBTF product processor in function id "IFDTFEPM – Trade Finance External System Maintenance".
- Communication Type should be 'Webservice'
- Communication Method should be 'Synchronous'
- Webservice URL should contain the URL of OBTF system where EAC check will be done. (E.g. http://<URL>/OBTFEPSService/OBTFEPSService?WSDL)
- Service Profile should be the 'Webservice' type Service profile created.

External Credit Approval System Detailed	
New Copy Close Unlock Print Enter Query	
External Credit Approval System * OBTF	
Description	OBTF
Communication Type	Web Service
Communication Method	Synchronous
Timeout in seconds	30
Suppress Accounting Handoff	No
Referral Type	No Referral
ECA Block Supported	Yes
EAC Supported	Yes
<b>JMS Queue Preferences</b>	
Inqueue JNDI Name	MDB_QUEUE_RESPONSE
Outqueue JNDI Name	MDB_QUEUE
Service Profile	QPROF_1
<b>Faster Payment Preferences</b>	
Inqueue JNDI Name	MDB_QUEUE_RESPONSE
Outqueue JNDI Name	MDB_QUEUE
Status Mapping	
<b>Other Preferences</b>	
System Class	OBTF
Inter System Bridge GL	24103010008590
API Version	Base Version
<b>O Auth Preferences</b>	
Token URL	
Service Profile	
<b>WebService Preferences</b>	
WebService URL	http://fcubs.oracle.com:7005/OBTFEPSService/OBTFEPSService?wsdl
WebService Action	
Service Profile	WEBSERVICE
<b>ReST Preferences</b>	
ReST URL	
Service Profile	

### External Accounting System Detailed (PMDACCMT)

Maintain the accounting system as 'OBTF' in PMDACCMT

- ECA System Class should be 'OBTF'
- Inter System Bridge GL should be with appropriate value. It should be in same as interbridge GL maintained at OBTF product processor in function id "IFDTFEPM – Trade Finance External System Maintenance".
- Communication Type should be 'Webservice'
- Communication Method should be 'Synchronous'
- Webservice URL should contain the URL of OBTF system where accounting will be done.
- Service Profile should be the Webservice profile created.
- Account System Mapping to be done based on the requirement.

External Accounting System Detailed	
New Copy Close Unlock Print Enter Query	
External Accounting System * OBTF	
Description	OBTF
Communication Type	Web Service
Communication Method	Synchronous
Timeout in seconds	10
Suppress Accounting Handoff	No
<b>JMS Queue Preferences</b>	
Inqueue JNDI Name	MDB_QUEUE_RESPONSE
Outqueue JNDI Name	MDB_QUEUE
Service Profile	QPROF_1
<b>Faster Payment Preferences</b>	
Inqueue JNDI Name	
Outqueue JNDI Name	
<b>Other Preferences</b>	
ECA System Class	OBTF
Inter System Bridge GL	23801037003001
API Version	Base Version
<b>O Auth Preferences</b>	
Token URL	
Service Profile	
<b>WebService Preferences</b>	
WebService URL	http://fcubs.oracle.com:7005/OBTFEPSService/OBTFEPSService?wsdl
WebService Action	
Service Profile	WEBSERVICE
<b>ReST Preferences</b>	
ReST URL	
Service Profile	
Maker USER01	Date Time: 05-JUN-2019 19:07:12
Checker USER01	Date Time: 05-JUN-2019 19:07:12
Mod No	3
Record Status	Open
Authorization Status	Authorized
<b>Exit</b>	

### External Trade Contract (STDCRTRD)

Replicate Trade contracts for which the payment message will be received in the External Trade Contract (STDCRTRD) maintenance

External Trade Contract Input

New Copy Unlock Enter Query

Host Code HOST\_US1

Trade Contract Number \* CFLXB01191550001

Trade Contract Branch CFL

Customer Number \* 00000746

Contract Currency USD

Contract Status Active

Source System \* OBTF

Source Account Branch \* CFL

Source Trade Contract \* CFLXB01191550001

Maker SYSTEM Date Time: 04-JUN-2019 02:05:00 Mod No 1 Record Status Open

Checker SYSTEM Date Time: 04-JUN-2019 02:05:01 Authorization Authorized Status

Exit

### **External Notification Queue (PMDEXTNT)**

Create External Notification Queue as 'OBTF' in PMDEXTNT screen.

External Notification Queue Detailed

New Copy Close Unlock Print Enter Query

Host Code \* HOST\_US1

Source Code \* OBTFBC

Notification System Class OBTF

Communication Type Web Service

Timeout in Seconds

**JMS Preferences**

Outqueue JNDI Name

Queue Profile

**WebService Preferences**

WebService URL http://fcubs.oracle.com:7005/OBTFEPService/OBTFEPService?WSDL

Service OBTFEPService

**ReST Preferences**

ReST URL

Maker LAKSHMI3 Date Time: 05-JUN-2019 08:44:16 Mod No 7 Record Status Open

Checker LAKSHMI2 Date Time: 05-JUN-2019 08:45:17 Authorization Authorized Status

Exit



Note: In PMDACCTL - Netting should be enabled at Account Template for OBTF Transactions (without Netting Response will be failed at OBTF level)

### **Prerequisites at OBTF:**

#### **Bills Branch Parameter Maintenance:**

In BCDBRPRM following inputs should be provided.

- Liquidate Bill on Incoming MT202 is checked.
- Maximum Retry Count is inputted.

#### **Job Details:**

- In SMSJOBBER Job Details screen – JOB OBTF\_EXT\_ASYNCCAL should be up and running to populate export bills into common core system.
- In TFSJOBBER Trade Finance Job Browser Screen – Process EXT\_LIQUIDATION should be in running state.

### **External Bill Liquidation Processing:**

**External Liquidation process flow:**

Process Flow	Product Processor	Description	Remarks
1	OBTF	OBTF propagates Export Bill details to Common Core table.	JOB - OBTF_EXT_ASYNCCAL  Common Core Table - sttm_core_trade_contract
2	OBPM	On receipt of MT202, OBPM identifies message using reference number available in Tag 21 in common core  If Tag 21 reference No is bill reference no, OBPM sends EAC request to OBTF to validate the bill is in valid state.  OBTF validates EAC request and sends response to OBPM	Service : OBTFEPSService Operation : QueryEXTBCCContract
3	OBPM	On receipt of success response, OBPM sends EA request to OBTF for bill liquidation	Service : OBTFEPSService Operation : CreateExtBCEcaEntries
4	OBTF	OBTF parses the EA request and process Bill liquidation.	JOB Process - EXT_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

Response Type	Error Code	Error Message
Success	ST-SAVE-073	Successfully Retrieved

Failure	LC-OPL-08	Currency is Not Valid
Failure	LC-VALS-107	Contract does not exist

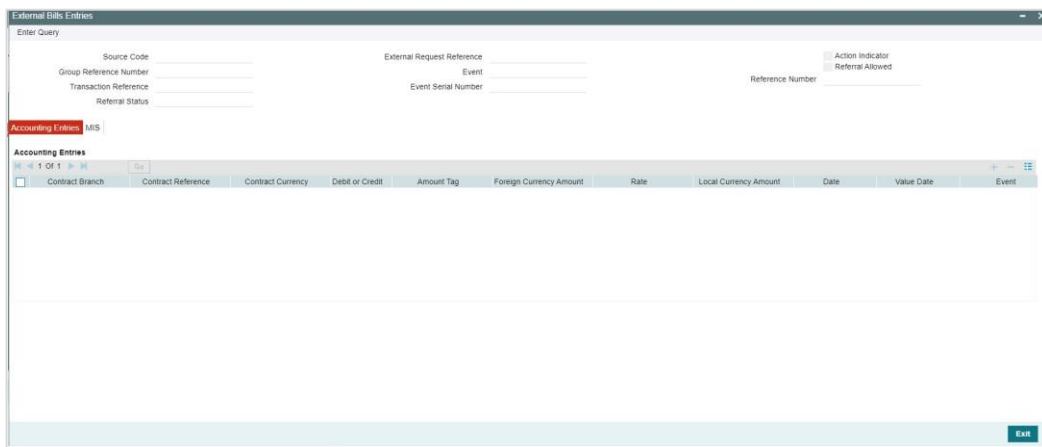
- EA web service to process liquidation on the provided account number (Bill reference number).System to initiate liquidation event on receiving EA request and respond with the success status. Asynchronous liquidation event will be triggered on the received reference number (<ACNO> of EA request).
- 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

Liquidation Status	Repair Reason
Unprocessed	NA
In Progress	NA
Processed	NA
Repair	BC-00279 : Invalid Contract Reference entered BC-EXTLIQ09 : Liquidate bill on incoming MT202 is not set to Yes in branch parameter screen

 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.

### Liquidation Status

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

Liquidation Status	Description
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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

**Error Codes:** External Liquidation process error codes and description as follows

Error Code	Type	Description
BC-EXTLIQ01	Error	Bridegl obtained from payments and maintained in trade are different
BC-EXTLIQ02	Error	Bridegl is not maintained in trade for payments
BC-EXTLIQ03	Error	External payment liquidation is in progress
BC-EXTLIQ04	Error	Maximum retry count allowed is \$1
BC-EXTLIQ05	Alert Message	External liquidation request submitted successfully
BC-EXTLIQ06	Alert Message	Exceeded maximum retry count maintained in branch parameter screen
BC-EXTLIQ08	Error	Complete pending external liquidation before proceeding
BC-EXTLIQ09	Error	Liquidate bill on incoming MT202 is not set to Yes in branch parameter screen

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### 3. Function ID Glossary

CODUPLDM .....	6	PMDSORCE.....	7, 8
GWDEFUN .....	5	PMDSORNW.....	8
IFDEPSQH.....	15	PMDSPROF .....	16
IFDEXBIL.....	20	SMSJOBBER.....	7
IFDEXLIQ.....	21	STDCIFCR .....	10
IFDTFEPM .....	4, 8	STDCRACC .....	10
IFDTFPQU .....	12	STDCRGLM .....	10
ISDBICDE .....	7	STDCRTRD.....	19
PMDACCMT .....	17	STDCRTRN.....	10
PMDECAMT .....	16	STDECAMT.....	16
PMDEXTNT .....	9, 18	TFEPGENPAYMENT.....	7, 11
PMDNWRLE .....	9		

**3.**