Oracle Banking Trade Finance Oracle Banking Payments Integration User Guide





Oracle Banking Trade Finance Oracle Banking Payments Integration User Guide, Release 14.7.6.0.0

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Preface

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Purpose

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.

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 |

Documentation Accessibility

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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.

Topic

This manual is organized as follows:

Table 1 Topics

| Topics | Description |
|-------------------------|---|
| Preface | This topic provides information on the intended audience. It also lists the various chapters covered in this User Manual. |
| OBTF - OBPM Integration | This topic explains the Oracle Banking Trade - Oracle Banking Payments Integration explains the integration between Oracle Banking Trade Finance and Oracle Banking Payments. |
| Function ID Glossary | This topic explains the alphabetical listing of Function/Screen ID's used in the module with page references for quick navigation. |

Conventions

The following text conventions are used in this document:

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



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

Screenshot Disclaimer

Personal information used in the interface or documents is dummy and does not exist in the real world. It is only for reference purposes.

Acronyms and Abbreviations

| Abbreviation | Description |
|--------------|-----------------------------------|
| OBTF | Oracle Banking Trade Finance |
| ОВРМ | Oracle Banking Payments |
| WSDL | Web Services Description Language |
| EA | External Accounting |

Symbols and Icons

The list of symbols and icons available on the screens are as follows:

Table 2 Symbols and Icons - Common

| Symbol/Icon | Function |
|-------------------|------------------|
| J L | Minimize |
| 7 6 | |
| | Maximize |
| LJ | |
| × | Close |
| Q | Perform Search |
| • | Open a list |
| \leftrightarrow | Date Range |
| Ŧ | Add a new record |



Table 2 (Cont.) Symbols and Icons - Common

| Symbol/Icon | Function |
|-------------|--|
| K | Navigate to the first record |
| Ы | Navigate to the last record |
| 4 | Navigate to the previous record |
| • | Navigate to the next record |
| 88 | Grid view |
| = | List view |
| G | Refresh |
| + | Click this icon to add a new row. |
| | Click this icon to delete a row, which is already added. |
| <u></u> | Calendar |
| Û | Alerts |
| 6 | Unlock Option |
| Ð | View Option |
| ₩ | Reopen Option |



1

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"
- Scope
- Prerequisites
- Integration Process

1.1 Scope

This section contains the following topic:

- Section 2.1.1, "Integration Scope"
- Integration Scope

1.1.1 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.

1.2 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"
- Prerequisites in Oracle Banking Trade Finance
- Prerequisites in Oracle Banking Payments
- Prerequisites in Common Core OBTF and OBPM

1.2.1 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 OBRH_URL param in CSTB_PARAM for communication type OBRH.
- 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 |
| Communication Type | External System type should be selected. Default – Direct integration with FCUBS OBRH – Integration of DDA system via OBRH |
| Header Profile | Header Profile for the OBRH should be selected. Header profile can be maintained in the screen (MSDHPROF - HTTP Header Parameters) |

Table 1-1 Service1 - Single Payment Service

| Field | Description |
|----------------|-----------------------|
| Service Code | GenPayMessage |
| Service Name | PMSinglePayOutService |
| Operation Code | CreateSinglePayment |

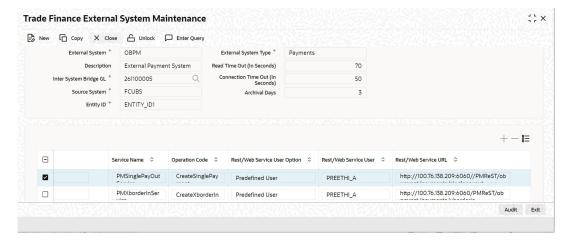


Table 1-1 (Cont.) Service1 - Single Payment Service

| Field | Description |
|------------------------------|---|
| Rest/Web Service User Option | Choose Contract User / Predefined User |
| Rest/Web Service User | Mention user in case of Predefined User |
| Rest/WebService URL | Mention http URL of OBPM when communication type is default http://ip:portnumber//PMReST/obpmrest/payments/singlepayout |

Table 1-2 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 when communication type is default http://ip:portnumber/PMReST/obpmrest/payments/xborderin |



Maintain the External System Functions (GWDETFUN) for the below Source codes

| Field | Suggested values |
|-----------------|--------------------------------|
| External System | OBTF <module code=""></module> |
| Function | IFGTFPNO |
| Action | NEW |
| Service Name | OBTFEPSService |
| Operation Code | CreateEPSNotification |



Figure 1-1 External System Functions



Figure 1-2 External System Function Summary

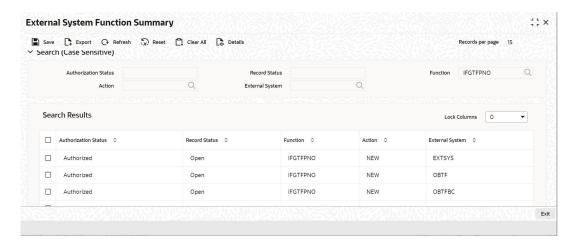


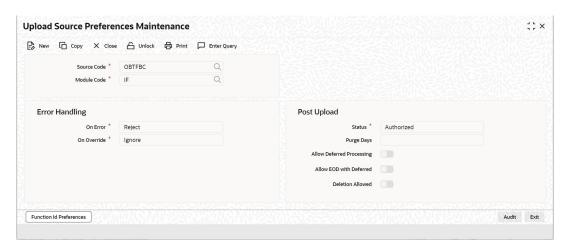
Figure 1-3 External System Function Summary

 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 |



Figure 1-4 Upload Source Preference Maintenance



- 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 SMSJOBBR 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.

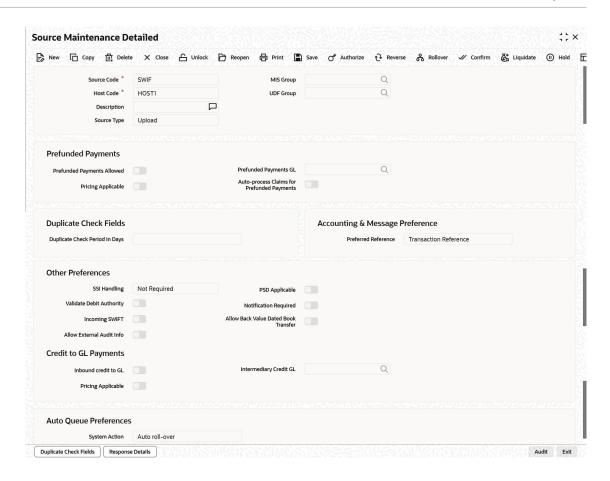
1.2.2 Prerequisites in Oracle Banking Payments

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.

Figure 1-5 Source Maintenance Detailed





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.



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".



1 . X **Source Network Preferences Detailed** 🕞 New 🗋 Copy 🔯 Delete 🗙 Close 台 Unlock 🟱 Reopen 🖶 Print 🖺 Save 🝼 Authorize 🕂 Reverse 🝰 Rollover 🛷 Confirm 💍 Liquidate 🕦 Hold Host Code * OBTFBC Q Q SWIFT Network Description Transaction Type Outgoing Preferences Authorization Rekey Required MIS Group UDF Group Q Sanctions System **Authorization Limit** Authorization Limit Currency Sanction Check Required Authorization 1 Limit Pricing Authorization 2 Limit External Pricing Applicable Network Release Limit Accounting Preference Credit Entry on On Activation Date Debit Entry on On Activation Date **Future Valued Transaction Preferences** Same Day Transaction Rollover Preference Validation on Booking Date Amount Block on Booking Date **Authorization Rekey Fields** +-= ☐ Rekey Field Name ♀ Description 0 No data to display. Page 1 (0 of 0 items) | ⟨ 4 1 ▶ >| Audit Exit

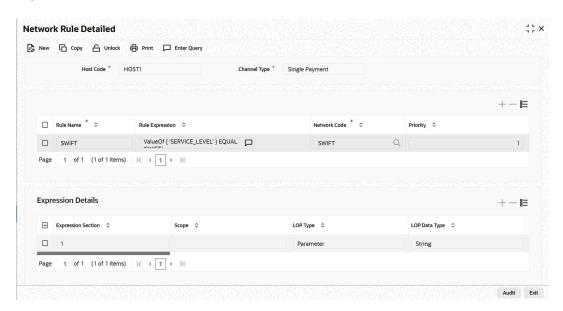
Figure 1-6 Source Network Preference Detailed

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



Figure 1-7 Network Rule Detailed



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

Figure 1-8 External Notification Queue Detailed



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.

1.2.3 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

1.3 Integration Process

This section contains the following topics:

- Section 2.3.1, "Installation Modes"
- Section 2.3.2, "Integration Processing"
- Installation Modes
- Integration Processing

1.3.1 Installation Modes

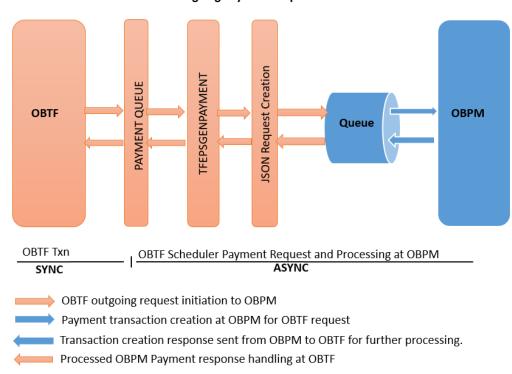
The following installation modes are described in the upcoming sections:

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



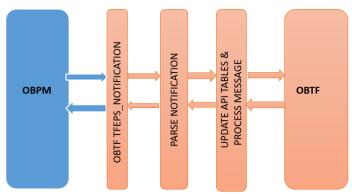
OBTF updates the queue references accordingly.

OBTF Outgoing Payment Request



- 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



1.3.2 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"

:

- OBTF Payment Request Initiation
- External Payment System Queue
- External Payment System Queue History
- External Bill Liquidation

1.3.2.1 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

- 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
- 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...
- Visit parties and provide required information about the parties involved like Account details and address details.
- 4. 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

1.3.2.2 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 'IFDTFPQU' 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 |

1.3.2.3 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.

Trade Finance External Payment System Queue History 1 - X Enter Query External Payment System Reference Number Event Sequence Number Amount Tag Process Status Not Authorized Archival Date Main Parties Parties Other Details Host Code Service Code Service Level Proprietary Source Code Transaction Branch Web Service User Customer No Initiation Date Requested Execution Date **Debtor Details** Transfer Type Transfer Currency Account Currency Transaction Amount Account Branch Prefunded Payments **Creditor Details** Remarks Name Charge Bearer Beneficiary - All Charges Beneficiary Charge Amount DCN Running Number Instrument Code Instrument Number Error Information Notifications

Figure 1-9 Trade Finance External Payment System Queue History

1.3.2.4 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.

Figure 1-10 Service Profile Detail





ECA System Maintenance (STDECAMT)

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

Figure 1-11 External Credit Approval System



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.



1 × **External Credit Approval System Detailed** 🕞 New 🗋 Copy 🛱 Delete X Close 🔓 Unlock 🖰 Reopen 🖨 Print 🖺 Save 💣 Authorize 🗘 Reverse 😤 Rollover 🖋 Confirm 🥵 Liquidate 🕦 Hold | External Credit Approval * OBTF Q Other Preferences Description OBTF System Class OBTF Communication Type Web Service Inter System Bridge GL 24103010008590 Communication Method Synchronous API Version Base Version O Auth Preferences Timeout in seconds 30 Suppress Accounting Handoff No Token URL Referral Type No Referral Service Profile ECA Block Supported Yes OBTF EAC Supported JMS Queue Preferences WebService Preferences WebService URL http://fcubs.oracle.com:7005/OBTF Outqueue JNDI Name MDB OUFUE WebService Action Service Profile WEBSERVICE Inqueue JNDI Name MDB_QUEUE_RESPONSE Inqueue Maximum Consumer Count Inqueue Maximum Consumer Count Inqueue Message Listener Class Faster Payment Preferences **ReST Preferences** Q Inqueue JNDI Name MDB OUEUE RESPONSE Header Profile Outqueue JNDI Name MDB_QUEUE ReST URL Audit Exit Status Mapping

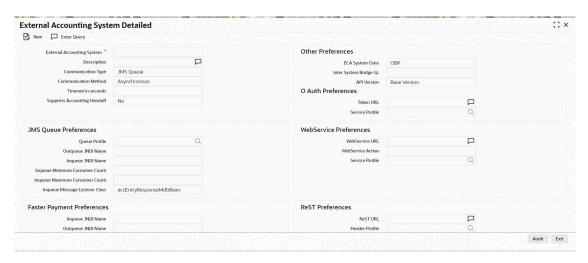
Figure 1-12 External Credit Approval System Detailed

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.

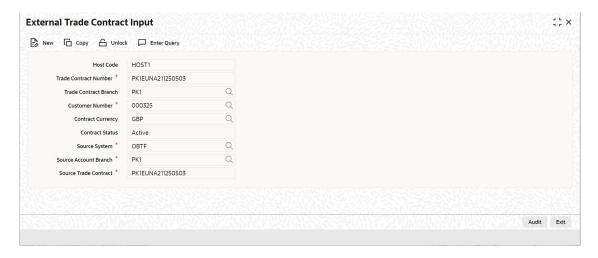
Figure 1-13 External Accounting System Detailed



External Trade Contract (STDCRTRD)

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

Figure 1-14 External Trade Contract

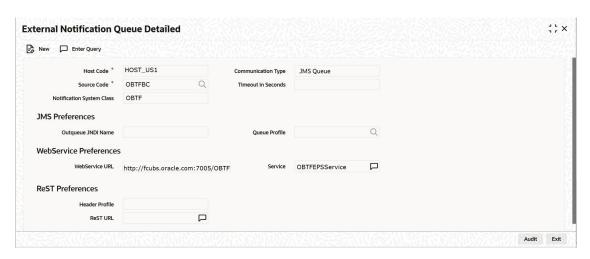


External Notification Queue (PMDEXTNT

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



Figure 1-15 External Notification Queue Detailed



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 SMSJOBBR Job Details screen JOB OBTF_EXT_ASYNCCAL should be up and running to populate export bills into common core system.
- In TFSJOBBR Trade Finance Job Browser Screen Process EXT_LIQUIDATION should be in running state.

External Bill Liquidation Processing:

Table 1-3 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 |



Table 1-3 (Cont.) External Liquidation process flow:

| Process Flow | Product Processor | Description | Remarks |
|-----------------|----------------------|---|--|
| 2 | ОВРМ | 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 | Service : OBTFEPSService Operation : QueryEXTBCContract |
| 3 | ОВРМ | 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 QueryEXTBCContract 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 | QueryEXTBCContract | ОВРМ |

| 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.

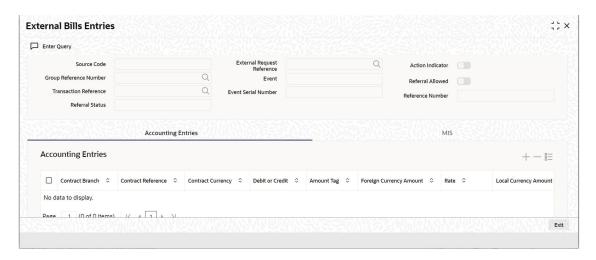
| Provider | Service Name | Operation Code | Consumer |
|----------|----------------|-----------------------|----------|
| OBTF | OBTFEPSService | CreateExtBCEcaEntries | ОВРМ |

| 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.

Figure 1-16 External Bills Entries



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 EA request.

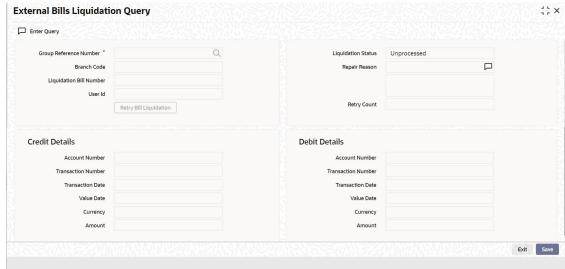
Whenever an EA request is received from Payments through GW Webservice, Liquidation gets triggered by OBTF.

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 |
|-----------------------|--|
| 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 |

Table 1-4 Error Codes

| Error Code | Туре | 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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