

Gateway Services
Oracle FLEXCUBE Universal Banking
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1. About this Manual

1.1 Introduction

This manual is designed to help you quickly get acquainted with the Integration Gateway of Oracle FLEXCUBE.

It provides an overview to the module, and provides information on using the Integration Gateway module of Oracle FLEXCUBE.

You can further obtain information specific to a particular field by placing the cursor on the relevant field and striking <F1> on the keyboard.

1.2 Audience

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

| Role | Function |
|---------------------------------------------------|--------------------------------------------------------|
| IT department members responsible for integration | Input functions for maintenance related to the gateway |
| IT managers | Authorization functions |

1.3 Acronyms and Abbreviations

| Abbreviation | Description |
|--------------|-------------------------------------|
| FLEXCUBE UBS | FLEXCUBE Universal Banking Solution |

1.4 Organization

The manual is organized in the following manner:

| | |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Chapter 1 | <i>About this Manual</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual. |
| Chapter 2 | <i>Gateway Functions - An Overview</i> explains the features of this module |
| Chapter 3 | <i>External System Maintenance</i> explains the maintenance of external systems and the various processes involved |
| Chapter 4 | <i>Message Formats</i> explains the different message formats |
| Chapter 5 | <i>FLEXML Adapter Message Conversion</i> explains details about the FLEXML Adapter. |

1.5 Conventions Used in this Manual

Important information is preceded with the  symbol.

1.6 Glossary of Icons

This User Manual may refer to all or some of the following icons:

| Icons | Function |
|-------------------------------------------------------------------------------------|-------------|
|  | New |
|  | Copy |
|  | Save |
|  | Delete |
|  | Unlock |
|  | Print |
|  | Close |
|  | Re-open |
|  | Reverse |
|  | Template |
|  | Roll-over |
|  | Hold |
|  | Authorize |
|  | Liquidate |
|  | Exit |
|  | Sign-off |
|  | Help |
|  | Add row |
|  | Delete row |
|  | Option List |
|  | Confirm |

| Icons | Function |
|-----------------------------------------------------------------------------------|---------------|
|  | Enter Query |
|  | Execute Query |

Refer the Procedures User Manual for further details about the icons.

2. Gateway Functions - An Overview

2.1 Introduction

Integration of different applications and solutions is a key area in today's systems. A variety of specialized applications deployed on disparate platforms and using different infrastructure need to be able to communicate and integrate seamlessly with Oracle FLEXCUBE in order to exchange data. The Oracle FLEXCUBE Integration Gateway (referred to as 'Gateway' in the rest of the document) will cater to these integration needs.

The integration needs supported by the Gateway can be broadly categorized from the perspective of the Gateway as follows:

- Inbound application integration – used when any external system needs to add, modify or query information within Oracle FLEXCUBE
- Outbound application integration – used when any external system needs to be notified of the various events that occur within Oracle FLEXCUBE.

2.2 Inbound Application Integration

Oracle FLEXCUBE Inbound Application Gateway provides XML based interfaces thus enhancing the need to communicate and integrate with the external systems. The data exchanged between Oracle FLEXCUBE and the external systems will be in the form of XML messages. These XML messages are defined in FCUBS in the form of XML Schema Documents (XSD) and are referred to as 'FCUBS formats'

For more information on FCUBS formats refer the Message Formats chapter in this User Manual.

FCUBS Inbound Application Integration Gateway uses the Synchronous and Asynchronous Deployment Pattern for addressing the integration needs.

The Synchronous Deployment Pattern is classified into the following:

- Oracle FLEXCUBE EJB Based Synchronous Inbound Application Integration Deployment Pattern
- Oracle FLEXCUBE Web Services Based Synchronous Inbound Application Integration Deployment Pattern
- Oracle FLEXCUBE HTTP Servlet Based Synchronous Inbound Application Integration Deployment Pattern

Asynchronous Deployment Pattern is:

- Oracle FLEXCUBE MDB Based Asynchronous Inbound Application Integration Deployment Pattern

2.2.1 EJB Based Synchronous Deployment Pattern

The Enterprise Java Beans (EJB) deployment pattern will be used in integration scenarios where the external system connecting to Oracle FLEXCUBE is 'EJB literate', i.e., the external system is capable of interacting with Oracle FLEXCUBE based upon the EJB interface. In this deployment pattern, the external system will use the RMI/IIOP protocol to communicate with the Oracle FLEXCUBE EJB.

In this deployment pattern the EJB displayed by Oracle FLEXCUBE will be a stateless session bean. The actual request will be in the form of an XML message. After the necessary processing is done in Oracle FLEXCUBE based on the request, the response is returned to the external system as an XML message. The transaction control for the processing will stay with the Oracle FLEXCUBE EJB.

2.2.2 Web Services Based Synchronous Deployment Pattern

The web services deployment pattern will be used in integration scenarios where the external system connecting to Oracle FLEXCUBE wants to connect using standards-based, inter-operable web services.

This deployment pattern is especially applicable to systems which meet the following broad guidelines:

- Systems that are not 'EJB literate', i.e., such systems are not capable of establishing connections with Oracle FLEXCUBE based upon the EJB interface; and/or
- Systems that prefer to use a standards-based approach

In this deployment pattern, the external system will use the SOAP (Simple Object Access Protocol) messages to communicate to the Oracle FLEXCUBE web services.

The services displayed by Oracle FLEXCUBE are of a 'message based' style, i.e., the actual request will be in the form of an XML message, but the request will be a 'payload' within the SOAP message. After the necessary processing is done in Oracle FLEXCUBE based on the request, the response is returned to the external system as an XML message which will be a 'payload' within the response SOAP message. The transaction control for the processing will stay with the Oracle FLEXCUBE.

2.2.3 HTTP Servlet Based Synchronous Deployment Pattern

The HTTP servlet deployment pattern will be used in integration scenarios where the external system connecting to Oracle FLEXCUBE wants to connect to Oracle FLEXCUBE using simple HTTP messages.

This is especially applicable to systems such as the following:

- Systems that are not 'EJB literate', i.e., are not capable establishing a connections with Oracle FLEXCUBE based upon the EJB interface; and/or
- Systems that prefer to use a simple http message based approach without wanting to use SOAP as the standard

In this deployment pattern, the external system will make an HTTP request to the Oracle FLEXCUBE servlet.

For this deployment pattern, Oracle FLEXCUBE will display a single servlet. The actual request will be in the form of an XML message. This XML message is embedded into the body of the HTTP request sent to the Oracle FLEXCUBE servlet. After the necessary processing is done in Oracle FLEXCUBE based on the request, the response is returned to the external system as an XML message which is once again embedded within the body of the response HTTP message. The transaction control for the processing will stay with the Oracle FLEXCUBE.

2.2.4 MDB Based Asynchronous Deployment Pattern

The MDB deployment pattern is used in integration scenarios where the external system connecting to Oracle FLEXCUBE wants to connect to Oracle FLEXCUBE using JMS queues.

This is especially applicable to systems such as the following:

- Systems that prefer to use JMS queues based approach without wanting to wait for the reply

Here external system sends messages in XML format to request queue on which an MDB is listening. When a message arrives on the queue, it is picked up for processing. After the necessary processing is done in Oracle FLEXCUBE, based on the request, the response is sent to the response queue as an XML message

2.3 **Outbound Application Integration**

The Outbound Application Integration is also called the Oracle FLEXCUBE Notify Application Integration layer. This application layer sends out notification messages to the external system whenever events occur in Oracle FLEXCUBE.

The notification messages generated by FCUBS on the occurrence of these events will be XML messages. These XML messages are defined in FCUBS in the form of XML Schema Documents (XSD) and are referred to as 'FCUBS formats'

For more information on FCUBS formats refer the Message Formats chapter in this module.

2.4 **Responsibilities of Integration Gateway**

The primary responsibilities of Oracle FLEXCUBE Integration Gateway include the following:

- Authentication
- Duplicate recognition
- Validation
- Routing
- Logging of messages

2.5 **Deployment of Oracle FLEXCUBE Integration Gateway**

Message communication - incoming or outgoing from/to an external system in Oracle FLEXCUBE will happen only through an Oracle FLEXCUBE Integration Gateway. Hence, it becomes the first point of contact or last point of contact with the database in message flow. The Oracle FLEXCUBE Integration Gateway can be deployed to support both the distributed and single schema deployments of Oracle FLEXCUBE:

- Distributed deployment of FCUBS – In this situation the database components of the Gateway are deployed as two or more schemas
 - The messaging schema as part of SMS schema in the SMS and/or HO instance
 - The business schema(s) in the various branch schemas in the branch instance(s)
- Single schema deployment of FCUBS – In this situation the database components of the Gateway (messaging and business) are both deployed as part of the single Oracle FLEXCUBE schema.

2.6 **Deployment Patterns for Application Integration**

| Business Integration Needs | Nature of Integration | Oracle FLEXCUBE Deployment Pattern | Remarks |
|----------------------------|-----------------------|------------------------------------|---------|
| | | | |

| | | | |
|-------------------------------------------|--------------|---------------------------|-------------------------------------------------------------------------------------------|
| Inbound Transactions into Oracle FLEXCUBE | Synchronous | FLEXCUBE UBS EJB | Recommended |
| | | FLEXCUBE UBS HTTP Servlet | This can be used if the external system cannot communicate to Oracle FLEXCUBE using EJB. |
| | | FLEXCUBE UBS Web Services | This can be used if the external system chooses to communicate only through Web Services. |
| | Asynchronous | FLEXCUBE UBS MDB | This can be used if the external system chooses to communicate only through JMS queues |
| Inbound Queries into Oracle FLEXCUBE | Synchronous | FLEXCUBE UBS EJB | Recommended |
| | | FLEXCUBE UBS In Servlet | This can be used if the external system cannot communicate to Oracle FLEXCUBE using EJB. |
| | | FLEXCUBE UBS Web Services | This can be used if the external system chooses to communicate only through Web Services. |
| | Asynchronous | FLEXCUBE UBS MDB | This can be used if the external system chooses to communicate only through JMS queues |
| Handoffs from Oracle FLEXCUBE | Asynchronous | FLEXCUBE UBS Notify | Recommended |

2.7 **FLEXML Adapter**

Oracle FLEXCUBE Gateway is the common channel for data exchange between Oracle FLEXCUBE and external systems. But, older versions of Oracle FLEXCUBE use FLEXML Gateway to interact with the external systems. The message or communication format of FLEXML is different from that of the gateway.

Hence, in order to facilitate the exchange of messages between such systems, Oracle FLEXCUBE uses a conversion mechanism called the FLEXML Adapter. FLEXML Adapter converts messages from FLEXML format to gateway format and vice versa.

For more details on the conversion mechanism of FLEXML Adapter, refer the chapter 'FLEXML Adapter Message Conversion'.

3. External System Maintenance

3.1 Defining an External System

You need to define an external system that will communicate with the Oracle FLEXCUBE Integration Gateway.

You can define an external system using the 'External System – Detailed' screen.

You can invoke this screen by typing 'GWDEXSYS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'External System Maintenance' window. It is divided into several sections:

- External System:** Includes a text field for 'External System *' and a text area for 'Description'.
- Correlation Pattern:** Includes a 'Request' dropdown menu currently set to 'Message Id'.
- Message Exchange Pattern:** Includes 'Request Message' (dropdown: 'Input Only') and 'Response Message' (dropdown: 'Full Screen'). There is also a checkbox for 'XSD Validation Required'.
- Queue:** Includes 'Default Response Queue' and 'Dead Letter Queue' text boxes, and a checkbox for 'Register Response Queue Message Id'.
- External System Queues:** A table with one row: 'In Queue *' and 'Response Queue'.

At the bottom, there are tabs for 'Fields' and 'FTP Parameters'. The status bar contains: 'DOC504', 'Authorized By', 'Modification Number', 'Date Time', 'Authorized', 'Open', and a 'Cancel' button.

The various details required by the 'External System - Detailed' screen are described below.

3.1.1.1 Specifying External System Details

External System

Specify a name for the external system. This should be the same as the Source in an incoming message.

Description

Specify a brief description for the External System.

3.1.1.2 Indicating Correlation Pattern

Request

You can define a way in which the external system should correlate its request message with the response message. You can choose Message ID of a request message as the Correlation ID in the response message. Alternatively, you can choose Correlation ID of a request message and maintain it as the Correlation ID of the corresponding response message.

3.1.1.3 Specifying Message Exchange Pattern

Request Message

You can choose the Request message to be 'Full Screen' or 'Input Only'. If you select 'Full Screen' as the request message, the response message will also display 'Full Screen'.

Response Message

You can choose the Response message to be 'Full Screen' or 'Record Identification Msg'.



You can select 'Record Identification Msg' as the response message only if you select 'Input Only' in the request message.

3.1.1.4 Specifying Queue Details

Default Response Queue

You can define a response queue for each of the In Queue's through which the External System will communicate with Oracle FLEXCUBE. Define a valid queue name as the Default Response Queue.

Dead Letter Queue

If the messages received are non-readable, such messages are directed to Dead Letter Queue defined for the external system.



If the Dead Letter Queue is not defined, such messages will be redirected to a queue with the name of the request queue appended with '_E'.

XSD Validation Required

Check this box to indicate if the request message should be validated against its corresponding XSD.

Register Response Queue Message ID

Check this box to indicate if the message ID provided by the Response Queue should be logged when a response message is posted into the queue.

3.1.1.5 Specifying External System Queue Details

The 'External System Queues' list contains the 'In Queue' and 'Response Queue' lists. To add a record to the 'External System Queues' list click add icon. To delete a record from the list, select the record using its check box and then click delete icon.

In Queue

Specify the name of the queue from which the messages were received. The name of the queue will help identify the external system.



This is required only if an incoming message does not display the source of the message. An In Queue is mapped to only one External System.

You can map multiple queues to a source. System will allow a source to post messages to multiple queues.

Response Queue

You can define Response Queue for every In Queue. This is required only when the External System fails to display the queue name on posting a request message into the In Queue.

3.1.1 Viewing External System Details

The details of previously defined external Systems can be viewed using the 'External System - Summary' screen as shown below. You can invoke this screen by typing 'GWSEXSYS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

External System Summary

Authorization Status Record Status

External System Default Response Queue

Dead Letter Queue

Search Advanced Search Reset

Records per page 15 1 of 1 Go

| Authorization Status | Record Status | External System | Default Response Queue | Dead Letter Queue |
|----------------------|---------------|-----------------|------------------------|-------------------|
|----------------------|---------------|-----------------|------------------------|-------------------|

Authorization Status A - Authorized U - Unauthorized

Record Status C - Closed O - Open

Exit

This summary screen can be used to search for external systems which match the data specified for any of the following criteria:

- Authorization Status
- External System
- Dead Letter Queue
- Record Status
- Default Response Queue

The 'Result' list shows the external systems which match your query. The search functions available are:

Advanced

Click **Advanced** to specify queries with logical operators such as AND, OR and NOT.

Reset

Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

Query

After specifying your search criteria click **Query** to view the list of results which match your search criteria.

Refresh

Click **Refresh** to refresh the list of results.

3.1.2 Accessing Services and Operations

In a message it is mandatory to maintain a list of Service Names and Operation Codes. This information is called Gateway Operations.

A combination of every such Service Name and Operation Code is mapped to a combination of Function ID and Action. Every screen in Oracle FLEXCUBE is linked with a function ID. This information is called Gateway Functions.

You can gain access to an external system using the Gateway Functions. The Function IDs mapped in Gateway Functions should be valid Function IDs maintained in Oracle FLEXCUBE. Hence, for every new Service or Operation being introduced, it is important that you provide data in Gateway Operations and Gateway Functions.

Refer the Message Formats chapter for more information on Services and Operations.

3.2 Defining Access Rights to an External System

You can define access rights to an external system using the 'External System Functions – Detailed' screen.

You can invoke this screen by typing 'GWDEXFUN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

In the above screen, you need to specify the following details:

External System

Select an external system for which you wish to provide access rights. The adjoining option list displays all the external systems you have maintained in the 'External Systems – Detailed' screen.

Function ID

Select a Function ID from the list of values by clicking the adjoining option list. The function ids are invoked from Gateway Functions.

Action

Select an action for the external system from the option list provided.

Service Name

This displays the service name based on the Function ID and Action you select.

Operation Code

This displays the Operation Code based on the Function ID and Action you select.

3.2.1 Viewing External System Function Details

You can view the access rights details which have already been defined using the 'External System Functions - Summary' screen as shown below. You can invoke this screen by typing 'GWSEXFUN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

This summary screen can be used to search for external system functions which match any of the following criteria:

- Authorization Status
- External System
- Record Status
- Action
- Function

The 'Result' list shows the external system functions which match your query. The search functions available are:

Advanced

Click **Advanced** to specify queries with logical operators such as AND, OR and NOT.

Reset

Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

Query

After specifying your search criteria click **Query** to view the list of results which match your search criteria.

Refresh

Click **Refresh** to refresh the list of results.

3.2.2 Defining Access Rights to a User ID

For a User ID to access a request message, you can individually map each Function ID to a User ID.



You can provide access to functions only if the Function IDs provided in Gateway Functions are valid.

3.2.3 Maintaining Upload Source Details

Oracle FLEXCUBE facilitates upload of data from an external source. The details of the source from which data has to be uploaded need to be maintained in Oracle FLEXCUBE using the 'Upload Source Maintenance' screen. You can invoke the 'Upload Source Maintenance' screen by typing 'CODSORCE' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

| Input By | Authorized By | Modification Number | Authorized | Open |
|-----------|---------------|---------------------|--------------------------|--------------------------|
| Date Time | Date Time | | <input type="checkbox"/> | <input type="checkbox"/> |

The following details need to be captured here:

Source Code

Specify a code for the for the source from which data has to be uploaded to Oracle FLEXCUBE.

Description

Give a small description for the source code specified.

Base Data From FLEXCUBE

Check this box to indicate if base data has to be uploaded from Oracle FLEXCUBE.

3.2.4 Specifying Upload Source Preferences

You can set preferences for upload of data from an external source in the 'Upload Source Preferences Maintenance' screen. You can invoke the 'Upload Source Preferences Maintenance' screen by typing 'CODUPLDM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Upload Source Preferences Maintenance' window. It has a title bar with a diamond icon and the text 'Upload Source Preferences Maintenance'. The main area contains several sections: 'Source Code *' and 'Module Code *' are text boxes with dropdown arrows. Below them is the 'Error Handling' section, which includes 'On Override *' (a dropdown menu currently showing 'Ignore') and 'On Exception *' (a dropdown menu currently showing 'Reject'). The 'Post Upload' section includes 'Status *' (a dropdown menu currently showing 'Authorized') and 'Purge Days(Calendar)' (a text box). Below these are three checkboxes: 'Allow Deferred Processing', 'Allow EOD with Deferred', and 'Allow Delete'. At the bottom, there is a 'Fields' section with 'Input By Date Time', 'Authorized By Date Time', 'Modification Number', and two checkboxes 'Authorized' and 'Open'. An 'Exit' button is located at the bottom right.

The following details are captured here:

Source Code

Select Source Code from the option list. Depending on the source code you select here data is uploaded from that source into Oracle FLEXCUBE.

Module Code

You can choose to upload data from a source directly onto a module in FLEXCUBE. Indicate the module into which you would like to upload data from a given source.

On Override

Oracle FLEXCUBE generates override messages in case it encounters any discrepancies during data upload. You can choose to do any of the following:

- Ignore – Select this option to ignore such error messages and continue with the upload process
- Put on Hold – Select this option to put the record on hold for user intervention later
- Reject – Select this option to reject the record



If 'Put on Hold' is selected, then during the request message creation, the system creates a hold contract; however, you can modify this contract.

On Exception

In case a serious error occurs during data upload, Oracle FLEXCUBE generates an error message. You can choose to put the record with the error on hold. In such a case, choose 'Put on Hold' from the list of options available. If you would like to reject the record altogether, choose 'Reject'.

Post Upload Status

If you would like to automatically authorize the data that is uploaded into Oracle FLEXCUBE choose the 'Authorize' option here.

If you would like the record to be put on hold choose this option in this field.

If you would like the record to be unauthorized, choose the 'Unauthorized' option in this field. The record will not be authorized automatically on upload. You will have to manually authorize the data.

Purge Days (Calendar)

Specify the days maintained for purging of the data uploaded.

Allow Deferred Processing

Check this option to defer processing of amendment and cancellation uploads.

Allow EOD with Deferred

Check this option to proceed even if the records exist in the deferred processing log.

If it is unchecked, then the EOD process halts until the deferred process log is cleared.

Allow Delete

Check this option to delete the process log.

3.3 Gateway Password Generation Logic For External System Authentication

This section describes the Encryption information for gateway authentication.

If Password authentication is required for an external system, then check the 'System Authentication Required' check box while maintaining the External System details in CODSORCE.

Once this check box is checked Oracle FLEXCUBE validates for Encrypted password as part of every request sent by the External System. The password encryption logic as below:

3.3.1 Password and Message ID as input

Message ID, present as part of the header in Request XML, is considered as hash. External System generates a unique Message ID, which is functional mandatory field in the header. Create a Message Digest with SHA-512 algorithm.

The hash created from the previous step and the password in clear text together is encrypted in DESede encryption method. Apply Base64 encoding to encrypted value and send to the Oracle FLEXCUBE gateway.

Example

A Sample Java Code To Do The Encryption Is Given Below

```
import java.security.MessageDigest;
import java.util.Arrays;
import javax.crypto.Cipher;
import javax.crypto.spec.IvParameterSpec;
import javax.crypto.spec.SecretKeySpec;
import org.apache.commons.codec.binary.Base64;

/* txtPass(PASSWORD), msgid(MESID) */
MessageDigest mDigest = MessageDigest.getInstance("SHA-512");
byte[] digestSeed = mDigest.digest(msgid.getBytes());
byte[] seedEncArray = Arrays.copyOf(digestSeed, 24);
Cipher cipher = Cipher.getInstance("DESede/CBC/PKCS5Padding");
SecretKeySpec skspec = new SecretKeySpec(seedEncArray, "DESede");
IvParameterSpec iv = new IvParameterSpec(new byte[8]);
cipher.init(Cipher.ENCRYPT_MODE, skspec, iv);
byte[] finalByteArray = cipher.doFinal(txtPass);
String finalValue = new String (Base64.encodeBase64 (finalByteArray));
```

3.4 Incoming Message Browser

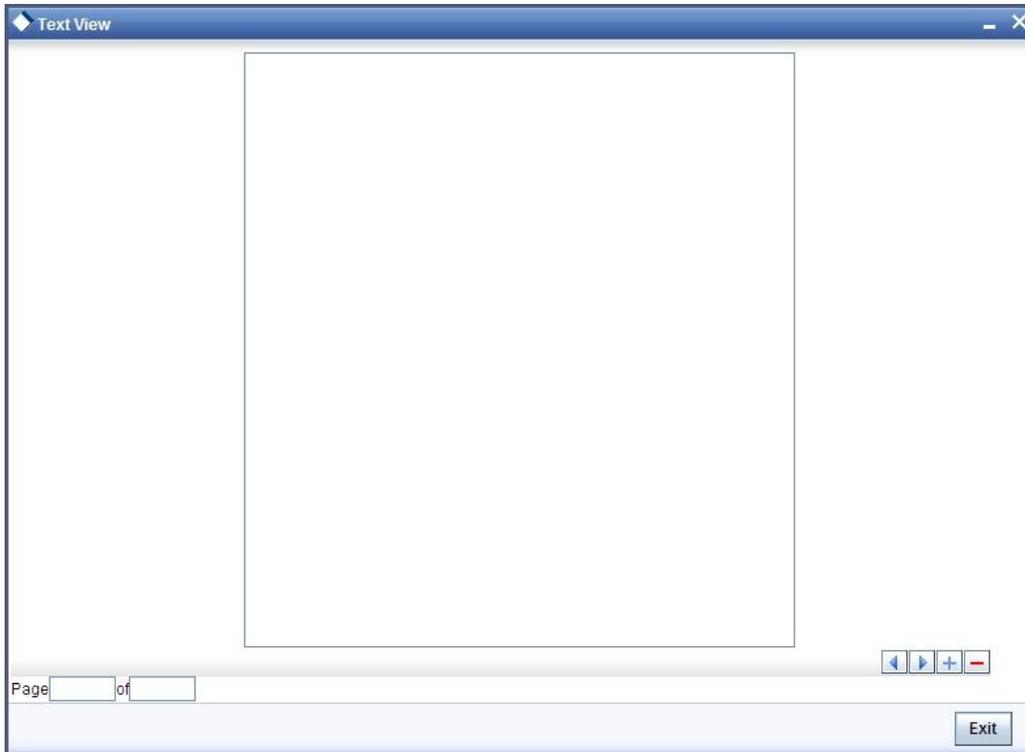
The messages received from the external system will be displayed in the Incoming Message Browser.

You can invoke the 'Incoming Message Browser' screen by typing 'GWDINBRW' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

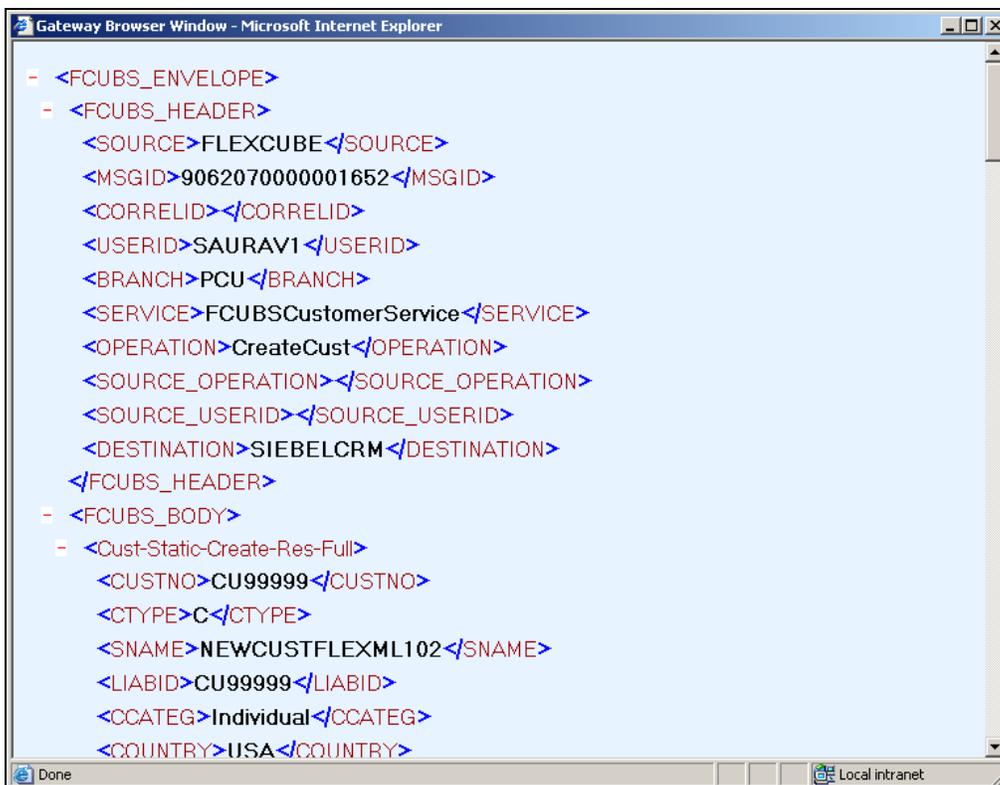
| Message Reference | Level | Tag Id | Tag Name | Node | Parent Id |
|-------------------|-------|--------|----------|------|-----------|
| | | | | | |

In the 'Incoming Message Browser' screen you can view the details of the messages received from the external systems. You can also view the messages in the XML format or the Text format.

Click 'Text View' button to view the incoming messages in text format as shown below:



Click 'XML View' button to view the 'Gateway Browser Window' screen which displays the messages in XML format.



3.4.1 Viewing Incoming Message Details

The summary of all messages received from the external system can be viewed using the 'Incoming Message Browser - Summary' screen as shown below. You can invoke this screen by typing 'GWSINBRW' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Incoming Message Browser' application window. The window title is 'Incoming Message Browser'. The interface includes a search section with two columns of criteria fields, each with a search icon. The left column contains: Message Reference, External System, Correlation Id, Service Name, User Id, Branch Date, and Message Status. The right column contains: Branch, Message Id, Request Queue Message Id, Operation Code, Their User Id, Server Date Stamp, and FLEXCUBE Reference. Below the search fields are three buttons: 'Search', 'Advanced Search', and 'Reset'. A table below the search section shows a single record with columns: Message Reference, Branch, External System, Message Id, Correlation Id, Request Queue Message Id, Service Name, and Operation Code. The table is currently empty. At the bottom right of the window is an 'Exit' button.

This summary screen can be used to search for incoming messages which match the criteria (Message Reference Number, External System, Service Name etc) you specify. The 'Result' list shows the messages which match your query. The search functions available are:

Advanced

Click **Advanced** to specify queries with logical operators such as AND, OR and NOT.

Reset

Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

Query

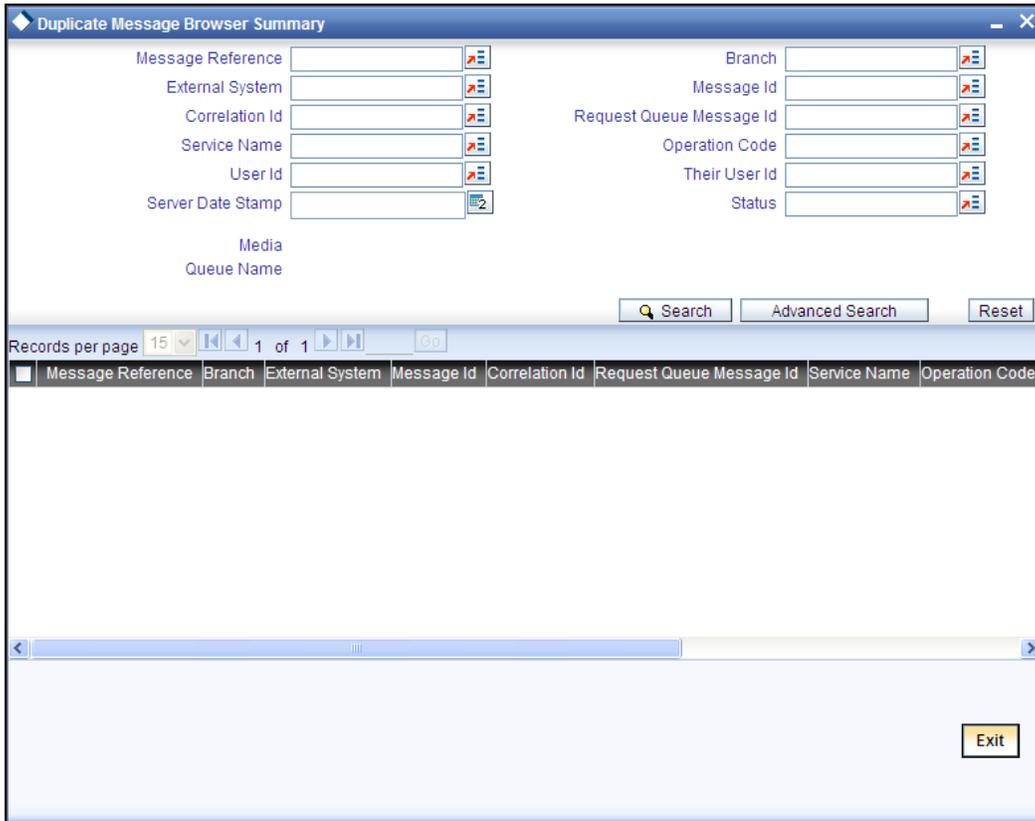
After specifying your search criteria click **Query** to view the list of results which match your search criteria.

Refresh

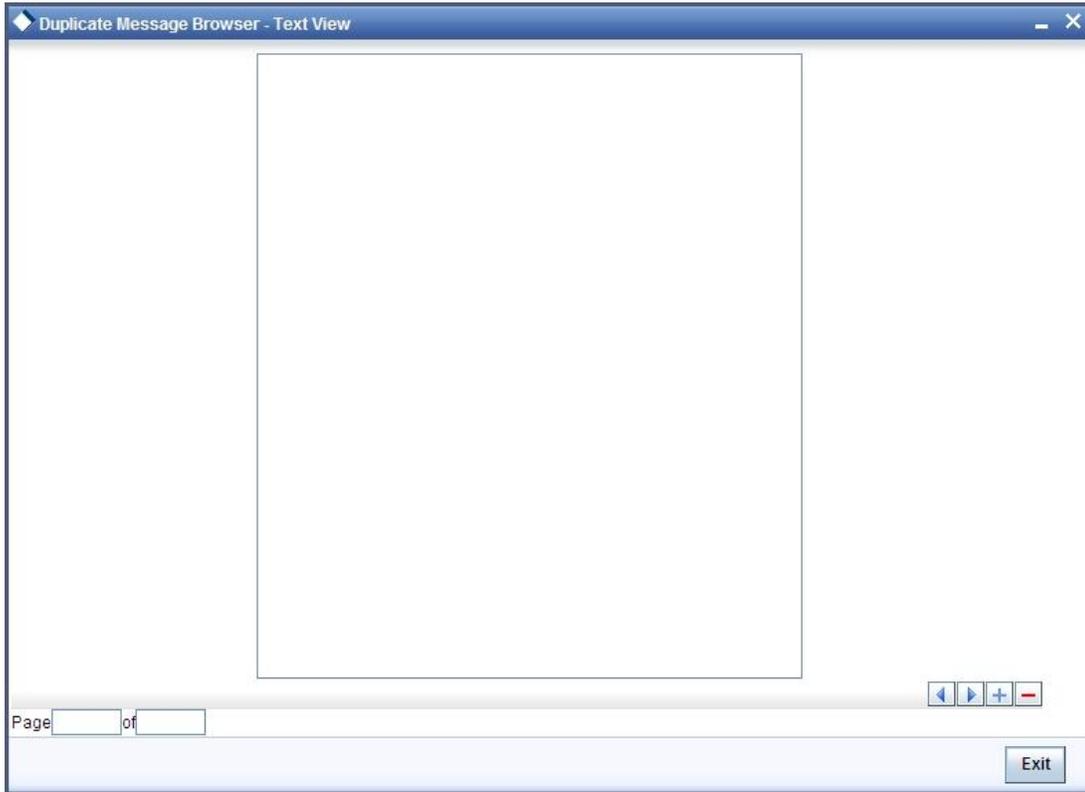
Click **Refresh** to refresh the list of results.

3.5 Duplicate Message Browser

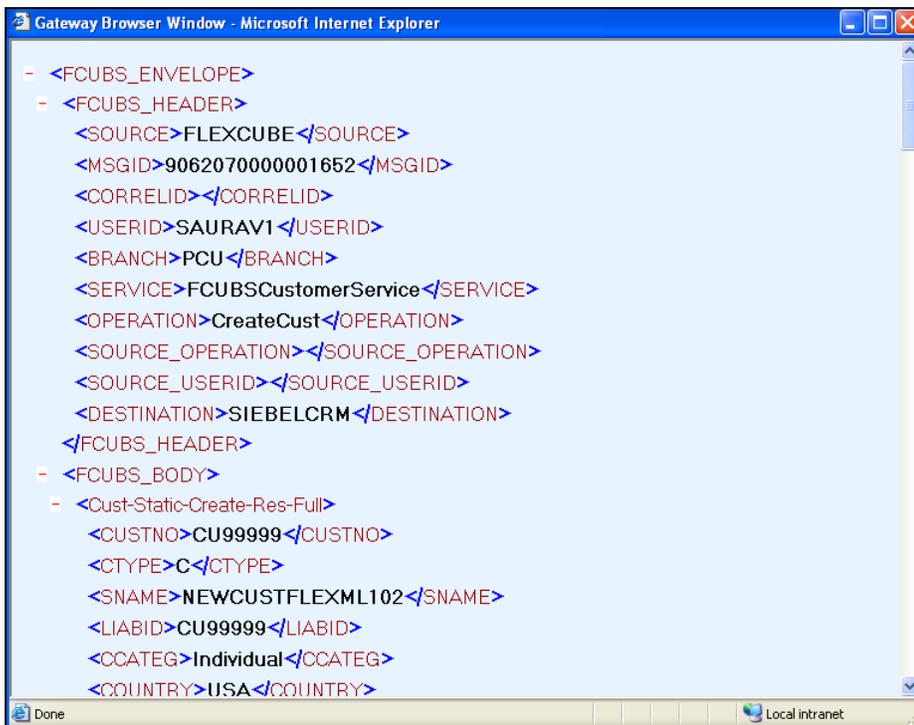
If Oracle FLEXCUBE Integration Gateway identifies a duplicate message it will be sent to the Duplicate Messages Browser. You can invoke the 'Duplicate Message Browser - Summary' screen by typing 'GWSPBROW' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



Click 'Text View' button in the 'Duplicate Message Browser - Summary' screen to view the duplicate messages in the text format.



Click 'XML View' button in the 'Duplicate Message Browser - Summary' screen to view the duplicate messages in the following format:



3.5.1 Querying Duplicate Message Browser

You can query the list of duplicate messages using the 'Duplicate Message Browser - Summary' screen with functions for search. You can invoke this screen by typing 'GWSPBROW' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a web application window titled "Duplicate Message Browser Summary". The window contains a search form with the following fields and controls:

- Message Reference
- External System
- Correlation Id
- Service Name
- User Id
- Server Date Stamp
- Branch
- Message Id
- Request Queue Message Id
- Operation Code
- Their User Id
- Status

Below the search fields are three buttons: "Search", "Advanced Search", and "Reset". A table header is visible with the following columns: Message Reference, Branch, External System, Message Id, Correlation Id, Request Queue Message Id, Service Name, and Operation Code. The table body is empty. At the bottom right of the window is an "Exit" button.

This query screen can be used to search for duplicate messages which match the criteria (Message Reference Number, External System, Service Name etc) you specify. The 'Result' list shows the messages which match your query. The search functions available are:

Advanced

Click **Advanced** to specify queries with logical operators such as AND, OR and NOT.

Reset

Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

Query

After specifying your search criteria click **Query** to view the list of results which match your search criteria.

Refresh

Click **Refresh** to refresh the list of results.

3.6 Outgoing Message Browser

Once the incoming messages have been processed, a response message will be sent to the external systems along with the status of the processed messages. The response messages will be displayed in the 'Outgoing Message Browser'. You can invoke the 'Outgoing Message Browser' screen by typing 'GWDOTBRW' in the field at the top right corner of the Application tool bar and clicking on the adjoining arrow button.

Outgoing Message Browser

Message Reference *

Message Id

Message Status

Operation Code

FLEXCUBE Reference

Their User Id

Response Queue Message Id

Queue Name

Repair Reason

External System

Correlation Id

Service Name

Branch

User Id

Server Date Stamp

Branch Date

Related Message Reference

Text View XML View

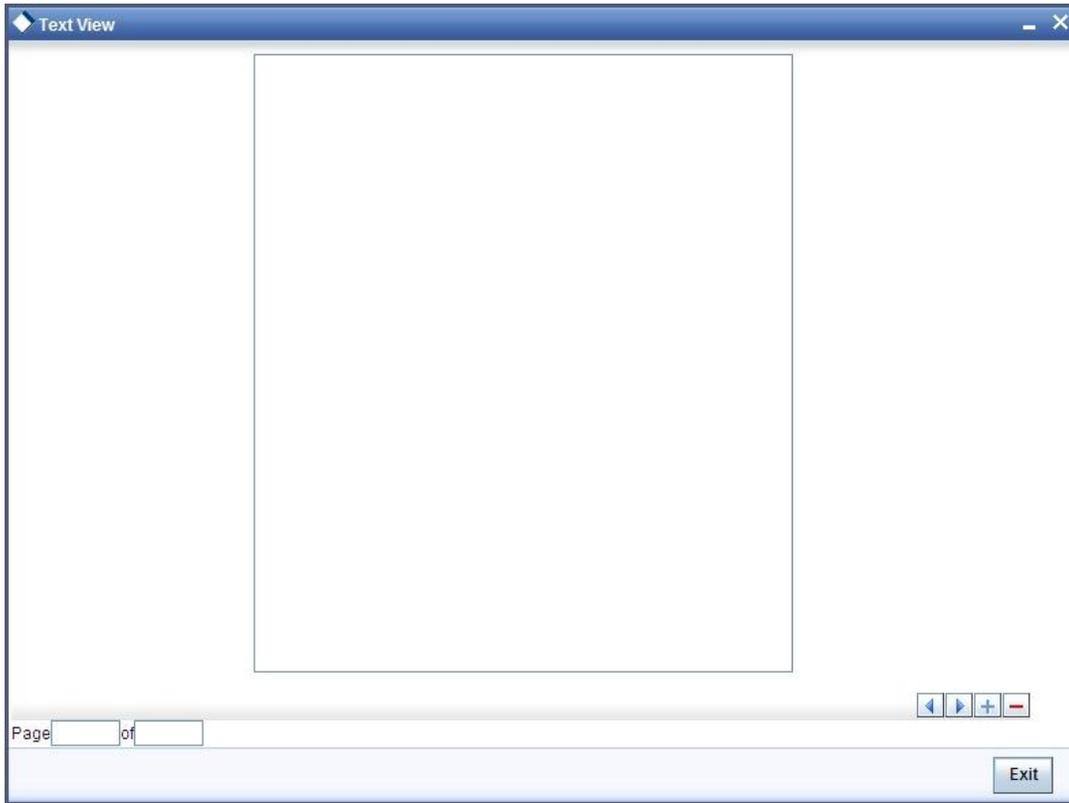
Gateway Messaging View

| <input type="checkbox"/> | Message Reference | Level Number | Tag Id * | Tag Name | Node | Parent Id |
|--------------------------|-------------------|--------------|----------|----------|------|-----------|
| <input type="checkbox"/> | | | | | | |

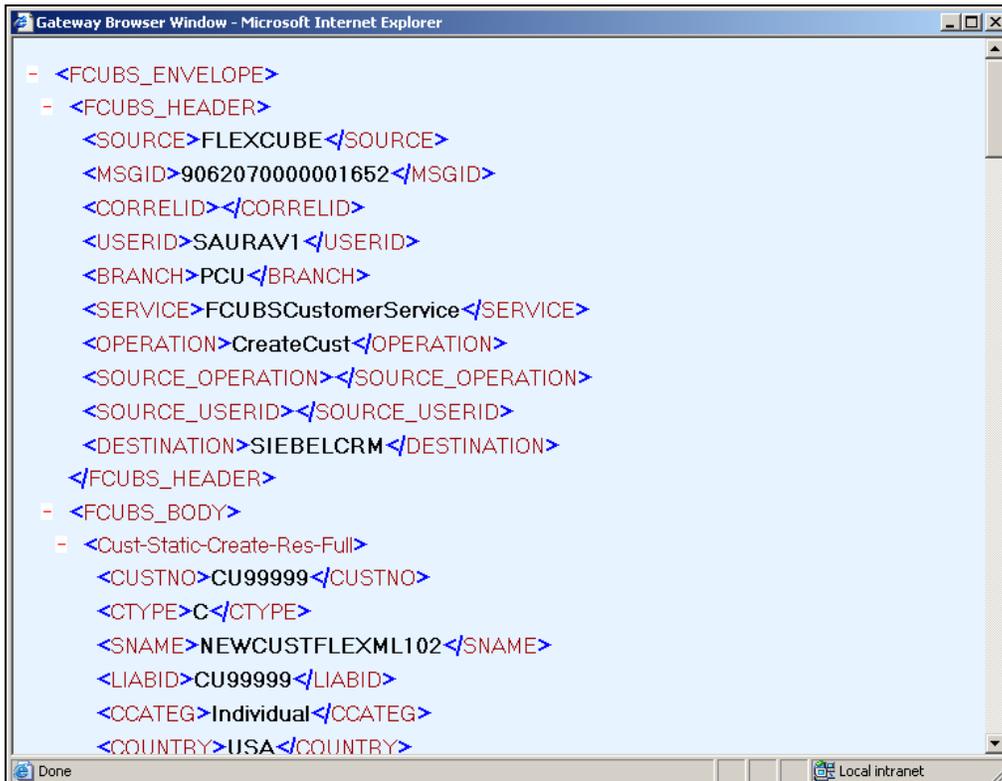
Exit

In the 'Outgoing Message Browser' screen you can view the details of the messages sent to the external systems. You can also view the messages in the XML format or the Text format.

Click 'Text View' button to view the response message in text format as shown below:



Click 'XML View' button to view the response messages in XML format as shown below:



3.6.1 Querying Outgoing Message Browser

You can query the list of outgoing messages using the 'Outgoing Message Browser - Summary' screen. You can invoke this screen by typing 'GWSOTBRW' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Outgoing Message Browser' application window. The window title is 'Outgoing Message Browser'. It contains a search form with the following fields:

- Message Reference
- Related Message Reference
- Service Name
- Message Id
- Response Queue Message Id
- Their User Id
- Server Date Stamp
- Branch
- External System
- Operation Code
- Correlation Id
- User Id
- Branch Date
- Message Status

Below the form are three buttons: 'Search', 'Advanced Search', and 'Reset'. Below the buttons is a table with the following columns: Message Reference, Branch, Related Message Reference, External System, Service Name, Operation Code, Message Id, and Correlation Id. The table is currently empty. At the bottom right of the window is an 'Exit' button.

This query screen can be used to search for outgoing messages which match the criteria (Message Reference Number, External System, Service Name etc) you specify. The 'Result' list shows the messages which match your query. The search functions available are:

Advanced

Click **Advanced** to specify queries with logical operators such as AND, OR and NOT.

Reset

Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

Query

After specifying your search criteria click **Query** to view the list of results which match your search criteria.

Refresh

Click **Refresh** to refresh the list of results.

3.7 Defining Notification Messages

The outgoing message browser also displays the notification messages. Every time the database layer receives a notification message, it updates the outgoing message browser to display the same.

At the branch level, you can maintain notification codes for each branch. You can do this using the 'Notifications Installed' screen.

You can invoke the 'Notifications Installed – Detailed' screen by typing 'GWDNTFIN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Notifications Installed - Detailed". At the top, there are four input fields: "Branch Code *" with a dropdown arrow, "Notification Code *" with a dropdown arrow, "Branch Name" with a dropdown arrow, and "Description" with a dropdown arrow. Below these fields is a section labeled "Fields" which contains: "Input By Date Time", "Authorized By Date Time", "Modification Number", and two checkboxes labeled "Authorized" and "Open". An "Exit" button is positioned at the bottom right of the "Fields" section.

In this screen, you need to specify the following details:

Branch Code

Select a branch code for which you wish to assign a notification code. Once you select the branch code, the corresponding description is displayed.

Notification Code

From the list of values, select a notification code you wish to link with the branch. This will be used to generate notifications for the entire branch. Once you select the notification code, the corresponding description is displayed.

In addition to maintaining a notification code for a given branch, you can also specify a topic or a queue to which the notification messages should be sent.

You can define a topic/queue for a given branch and notification code in the 'Notifications Enroute' screen.

3.7.1 Viewing Installed Notification Details

You can view and query the list of notification messages using the 'Notifications Installed - Summary' screen. You can invoke this screen by typing 'GWSNTFIN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

This summary screen can be used to search for notification messages which match the criteria (Message Reference Number, External System, Service Name etc) you specify. The 'Result' list shows the messages which match your query. The search functions available are:

Advanced

Click **Advanced** to specify queries with logical operators such as AND, OR and NOT.

Reset

Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

Query

After specifying your search criteria click **Query** to view the list of results which match your search criteria.

Refresh

Click **Refresh** to refresh the list of results.

3.8 Defining the Notifications Enroutes

You can invoke the 'Notification Enroutes - Detailed' screen by typing 'GWDNTFEN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a software window titled "Notifications Enroute - Detailed". The window contains two columns of input fields. The left column has "Branch Code *", "Description", and "Destination Name *". The right column has "Notification Code *" and "Description". Below the input fields is a "Fields" section with "Input By", "Date Time", "Authorized By", "Date Time", "Modification Number", "Authorized" (checkbox), "Open" (checkbox), and an "Exit" button.

In 'Notification Enroutes - Detailed' screen, you define the following details:

Branch

Specify a branch for which you wish to define a topic. If you want to use a single topic for all branches and for a given notification code, you can use a wildcard '***'. Once you select a Branch Code, the corresponding description is displayed.

Notification Code

Select a notification code from the list of notification codes provided. You can indicate a wildcard '***' if a single topic needs to be used for all notifications in a branch.

Topic/Queue Name

Define a topic or a queue here. If you define a topic, you can assign multiple notification codes for a branch. In case of a queue, you can define only one notification code for each branch.

3.8.1 Viewing Summary screen

You can view and query the list of notifications enroute using the 'Notifications Enroutes - Summary' screen. You can invoke this screen by typing 'GWSNTFEN' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

This summary screen can be used to search for notifications enroute which match the criteria (Message Reference Number, External System, Service Name etc) you specify. The 'Result' list shows the messages which match your query. The search functions available are:

Advanced

Click **Advanced** to specify queries with logical operators such as AND, OR and NOT.

Reset

Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

Query

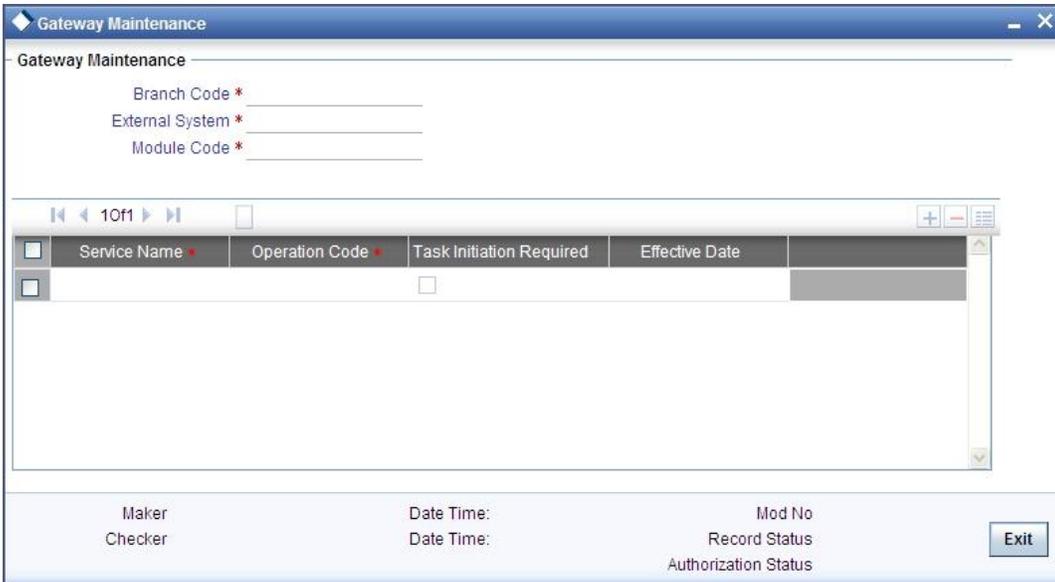
After specifying your search criteria click **Query** to view the list of results which match your search criteria.

Refresh

Click **Refresh** button to refresh the list of results.

3.9 Maintaining MT Task Details

Using the 'Gateway Maintenance Detailed' screen, you can maintain the basis for creation of MT tasks for Gateway message. You can invoke this screen by typing 'STDGWINT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



In this screen, you can specify the following details:

Branch Code

Specify the branch code of the bank. This adjoining option list displays all valid branches maintained in the system. You can choose the appropriate one.

External System

Specify the name of the external system. This adjoining option list displays all the external systems maintained in the system. You can choose the appropriate one.

Module Code

Specify the module name. This adjoining option list displays all the modules maintained in the system. You can choose the appropriate one.

Service Name

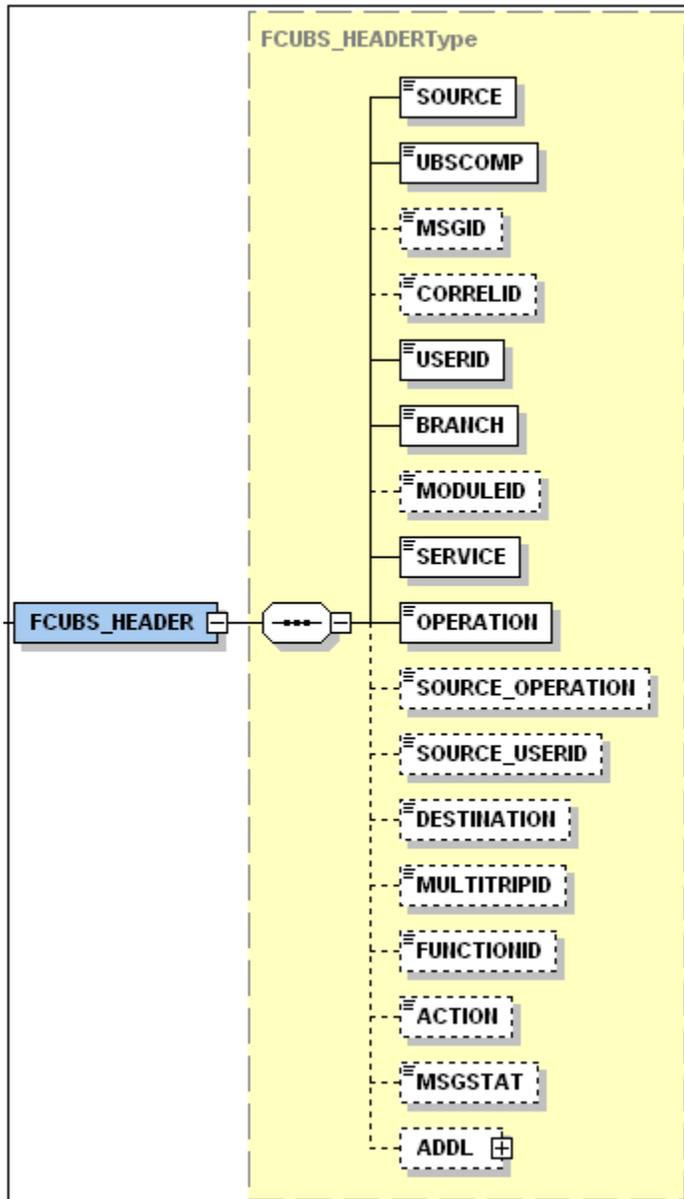
Specify the service name of the module selected. This adjoining option list displays all the service names maintained in the system. You can choose the appropriate one.

Operation code

Specify the operation code of the service. This adjoining option list displays all valid operation codes maintained in the system. You can choose the appropriate one.

Effective Date

Specify the date from which the gateway message maintenance becomes effective. Effective date should be equal to or greater than the application date.



4.2.1 **FCUBS HEADER**

The tags under FCUBS HEADER have been described below:

SOURCE

This indicates the name of the External system that is the source of the message.

UBSCOMP

This indicates the Oracle FLEXCUBE component of the message - whether FCIS or FCUBS

MSGID

This unique ID identifies each message – incoming or outgoing in Oracle FLEXCUBE. Every message will have a distinct message ID.

ERROR

The 'ERROR' node will have tags for error code and error description. The 'ERROR' node will be generated for each error raised by FCUBS.

4.2.2.2 FCUBS WARNING RESP

The warning response message will be sent when overrides are raised in a transaction. The Warning response will have another tag 'WARNING' within it.

WARNING

This node will have tags for warning code and warning description. The 'WARNING' node will be generated for each override raised by FCUBS.

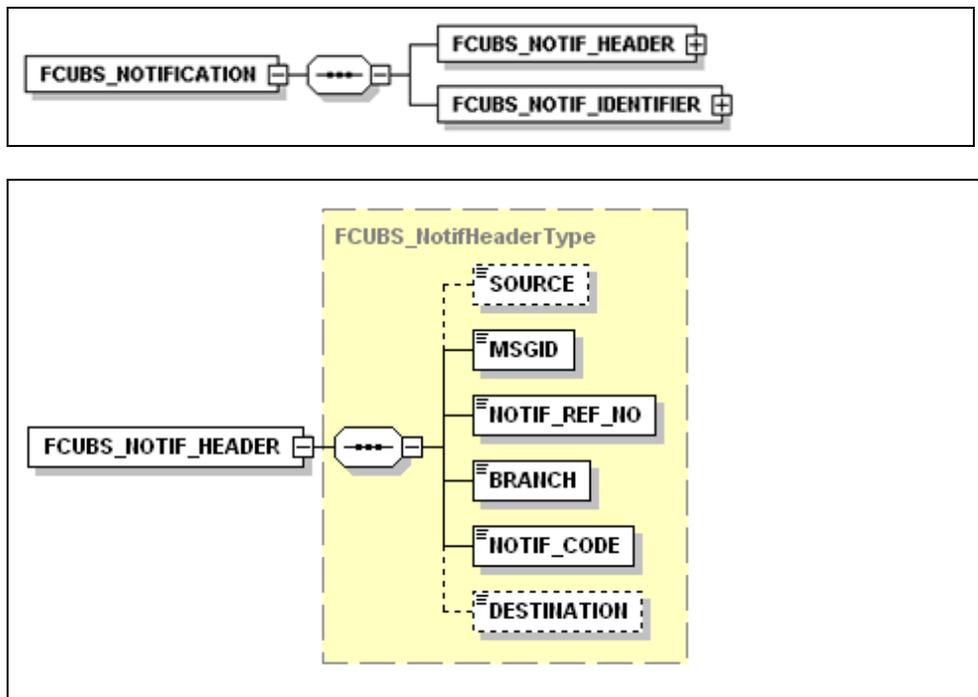
4.3 Oracle FLEXCUBE NOTIFICATION

The notification messages are generated in a standard format. The notification messages will consist of two main components:

FCUBS_NOTIF_HEADER – This forms the header portion of a notification message. This contains a standard set of tags that can identify a notification. These tags are constant across all notification messages.

FCUBS_NOTIF_IDENTIFIER – This will identify the maintenance records based on the information provided under this node. The contents of this node will vary for each notification.

A diagrammatic representation of FCUBS NOTIFICATION is as shown below:



4.3.1 **FCUBS NOTIFICATION HEADER**

The tags under FCUBS NOTIFICATION HEADER have been described below:

SOURCE

This indicates the name of the External system or the source of the message.

MSGID

This is the unique reference number generated by Oracle FLEXCUBE.

NOTIF_REF_NO.

This unique reference number identifies each notification message generated in Oracle FLEXCUBE.

BRANCH

This indicates the branch in which notification has been triggered.

NOTIF_CODE

This indicates the code for the notification that has been triggered.

DESTINATION

For incoming messages, the DESTINATION should be Oracle FLEXCUBE. For response messages, system will populate the SOURCE of the request message as DESTINATION.

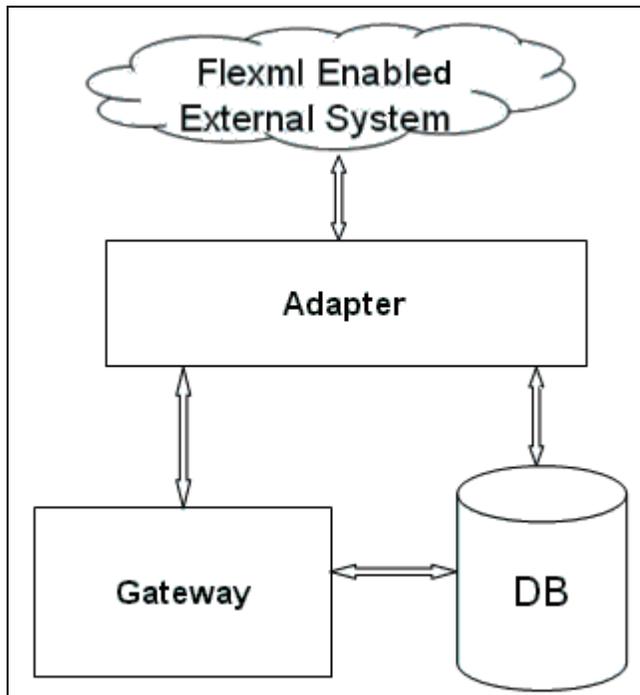
Refer 'Service-Documentation' available under 'Gateway' for details about each message.

5. FLEXML Adapter Message Conversion

5.1 Introduction

FLEXML Adapter is a component which facilitates the communication between existing FLEXML enabled systems and newer version of Oracle FLEXCUBE based on Gateways. The messages are converted from FLEXML format to Gateway format and vice versa.

The diagram given below indicates that the adapter acts as a middle layer facilitating the exchange of messages between FLEXML based systems and the Oracle FLEXCUBE database.



The different channels used by the adapter to communicate with the gateway can be categorized as follows:

- Inbound FLEXML Adapter
- Outbound FLEXML Adapter

5.2 Inbound FLEXML Adapter

Inbound FLEXML Adapter provides an XML based interface for the FLEXML enabled external system, to communicate with Oracle FLEXCUBE database. It converts the messages from FLEXML format to gateway format and invokes GW EJB, which handles further processing of the message.

The following communication mechanisms are available to process the incoming FLEXML messages:

- EJB Inbound Adapter – This is used if the external system is compatible with EJB interface. The external system invokes the adapter using EJB interface API method

6. The handoff message is logged in table, if the value of the property file parameter 'FXG_MSG_LOG_FLG' is 'Y'
7. Handoff XML message is send to each external system

5.3.2 Mapping FLEXML Format Messages to Gateway Format

FLEXML uses DTDs to define the structure of an XML document, whereas Gateways use XSDs for the same. Extensible Style Sheet Language (XSL), an XML based transformation language, is used to convert XML documents from one format to another.

The mapping can be done using any of the following methods:

- Optional Attribute Map Approach – X-Path language is used to map between the two XML formats
- Mandatory Attribute Map Approach – the mandatory attributes in the target XML document are mapped in this case.

includes only the primary key fields of the FT contract in the Oracle FLEXCUBE data store.

6.2.1.8 QueryFTContract

This is the operation code for querying FT contract in Oracle FLEXCUBE. It involves the following messages:

- QueryFTcontract-Req-Full- This is the request message to query FT contract in Oracle FLEXCUBE UBS. An external system which intends to query FT contract has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryFTContract-Req-IO- This is the request message to query FT contract in Oracle FLEXCUBE UBS. An external system which intends to query FT contract has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for querying an FT contract.
- QueryFTContract-Res-Full- This is the response message which is sent back to the external system when FT contract is successfully queried in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryFTContract-Res-PK- This is the response message which is sent back to the external system when FT contract is successfully queried in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the FT contract in the Oracle FLEXCUBE data store.

6.2.2 FCUBSAccService

All account operations are logically grouped under a service called 'FCUBSAccService'.

Oracle FLEXCUBE supports the following operations under this service:

- CheckBookNew
- CheckBookModify
- CheckBookQuery
- CheckBookAuthorise
- CheckBookDelete
- CheckDetailsQuery
- CreateStopPaymentsReversal
- ModifyStopPaymentsReversal
- AuthoriseStopPaymentsReversal
- CloseStopPaymentsReversal
- ReopenStopPaymentsReversal
- QueryStopPaymentsReversal
- CreateStopPaymentsParameter
- ModifyStopPaymentsParameter
- CloseStopPaymentsParameter
- ReopenStopPaymentsParameter
- QueryStopPaymentsParameter
- StopPaymentsNew

includes only the primary key fields of the account structure in the Oracle FLEXCUBE data store.

6.2.5.7 AccountStructureModify

This is the operation code for modifying account structure in Oracle FLEXCUBE. It involves the following messages:

- AccountStructureModify-Req-Full- This is the request message to modify an account structure in Oracle FLEXCUBE UBS. An external system which intends to modify an account structure has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- AccountStructureModify-Req-IO- This is the request message to modify an account structure in Oracle FLEXCUBE UBS. An external system which intends to modify an account structure has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for modifying account structure.
- AccountStructureModify -Res-Full- This is the response message which is sent back to the external system when an account structure is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- AccountStructureModify -Res-PK- This is the response message which is sent back to the external system when an account structure is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the account structure in the Oracle FLEXCUBE data store.

to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for closing an amount block.

- AmountBlocksClose-Res-Full- This is the response message which is sent back to the external system when an amount block is successfully closed in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- AmountBlocksClose-Res-PK- This is the response message which is sent back to the external system when an amount block is successfully closed in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the amount block record in the Oracle FLEXCUBE data store.

6.2.6 FCUBSCGService

All the operations that can be performed on clearing are logically grouped under a service called 'FCUBSCGService'.

Oracle FLEXCUBE supports the following operations under this service:

- CreateSecCode
- CloseSecCode
- ModifySecCode
- QuerySecCode
- ReopenSecCode
- CreateChkProtContract
- ReverseChkProtContract
- QueryChkProtTxn
- CreateCGProductMaint
- ModifyCGProductMaint
- CloseCGProductMaint
- ReopenCGProductMaint
- QueryCGProductMaint
- CreateDocType
- ModifyDocType
- QueryDocType
- CloseDocType
- ReopenDocType
- CreateDocException
- ModifyDocException
- QueryDocException
- CloseDocException
- ReopenDocException
- CreateClgServicePoint
- ModifyClgServicePoint
- CloseClgServicePoint
- ReopenClgServicePoint
- QueryChequeCorrespondence

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- EmbargoMaint-Query-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to query Embargo maintenance fails due to any functional error.

6.2.7.11 QueryTransactionCodes

This is the message for querying transaction code.

6.2.8 FCUBSSTService

All the operations that can be performed on a customer are logically grouped under a service called 'FCUBSSTService'. Oracle FLEXCUBE supports the following operations under this service:

- CreateAccClasMaint
- ModifyAccClasMaint
- DeleteAccClasMaint
- QueryAccClasMaint
- AuthAccClasMaint
- CreateSTTrnTax
- ModifySTTrnTax
- QuerySTTrnTax
- CloseSTTrnTax
- ReopenSTTrnTax
- CreateManStatChangInp
- CreateDCMaster
- ModDCMaster
- AuthDCMaster
- CloseDCMaster
- DeleteDCMaster
- QueryDCMaster
- NewCExtService
- ModCExtService
- AuthCExtService
- CloseCExtService
- DeleteCExtService
- QueryCExtService
- NewCBrandMaint
- ModCBrandMaint
- AuthCBrandMaint
- CloseCBrandMaint
- DeleteCBrandMaint
- QueryCBrandMaint
- CreateCustCatMaint

'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.8.18 NewCExtService

This is the operation code for creating an External Service in Oracle FLEXCUBE. It involves the following messages:

- CExtService-New-Req - This is the request message to create a new external service in Oracle FLEXCUBE UBS. An external system which intends to create a new external service has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for creating a new External service.
- CExtService-New-Res-Full - This is the response message which will be sent back to the external system when a new External service is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will include all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CExtService-New-Res-PK - This is the response message which will be sent back to the external system when a new External service is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of a new External service record in the Oracle FLEXCUBE data store.
- CExtService-New-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to create a new External service fails due to any functional error.

6.2.8.19 ModCExtService

This is the operation code to Modify External service. It involves the following messages:

- ModifyCExtService-Req-Full - This is the request message to modify External service. An external system which intends to modify External service has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ModifyCExtService-Req-IO - This is the request message to modify External service. An external system which intends to modify External service has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ModifyCExtService-Res-Full - This is the response message which is sent back to the external system when External service is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ModifyCExtService-Res-PK - This is the response message which is sent back to the external system when External service is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.8.20 AuthCExtService

This is the operation code for authorizing an External Service in Oracle FLEXCUBE. It involves the following messages:

- CExtService-Auth-Req - This is the request message to authorize an External Service in Oracle FLEXCUBE UBS. An external system which intends to authorize an External Service has to send the request in the specified format. The format of the message is

called 'Input-only', which has only those fields that are actually required for authorizing an External Service.

- CExtService-Auth-Res-Full - This is the response message which will be sent back to the external system when an External Service is successfully authorized in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CExtService-Auth-Res-PK - This is the response message which will be sent back to the external system when an External Service is successfully authorized in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of an External Service record in the Oracle FLEXCUBE data store.
- CExtService-Auth-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to authorize an External Service fails due to any functional error.

6.2.8.21 **CloseCExtService**

This is the operation code to close an External Service. It involves the following messages:

- CloseCExtService-Req-Full - This is the request message to close an External Service. An external system which intends to close an External Service has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CloseCExtService-Req-IO - This is the request message to close an External Service. An external system which intends to close an External Service has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CloseCExtService-Res-Full - This is the response message which is sent back to the external system when an External Service is closed. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CloseCExtService-Res-PK - This is the response message which is sent back to the external system when an External Service is closed. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.8.22 **DeleteCExtService**

This is the operation code to delete an External Service. It involves the following messages:

- DeleteCExtService-Req-Full - This is the request message to delete an External Service. An external system which intends to delete an External Service has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- DeleteCExtService-Req-IO - This is the request message to delete an External Service. An external system which intends to delete an External Service has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- DeleteCExtService-Res-Full - This is the response message which is sent back to the external system when an External Service is deleted. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- **ModifyCBrandMaintenance-Req-IO** - This is the request message to modify brand details. An external system which intends to modify brand details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- **ModifyCBrandMaintenance-Res-Full** - This is the response message which is sent back to the external system when brand details are modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **ModifyCBrandMaintenance-Res-PK** - This is the response message which is sent back to the external system when brand details are modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.8.26 **AuthCBrandMaint**

This is the operation code for authorizing brand details in Oracle FLEXCUBE. It involves the following messages:

- **AuthCBrandMaintenance -Req** - This is the request message to authorize brand details in Oracle FLEXCUBE UBS. An external system which intends to authorize brand details has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for authorizing brand details.
- **AuthCBrandMaintenance -Res-Full** - This is the response message which will be sent back to the external system when Brand details are successfully authorized in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **AuthCBrandMaintenance -Res-PK** - This is the response message which will be sent back to the external system when Brand details are successfully authorized in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of brand details record in the Oracle FLEXCUBE data store.
- **AuthCBrandMaintenance -Flt** - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to authorize brand details fails due to any functional error.

6.2.8.27 **CloseCBrandMaint**

This is the operation code to close brand details. It involves the following messages:

- **CloseCBrandMaintenance-Req-Full** - This is the request message to close brand details. An external system which intends to close brand details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CloseCBrandMaintenance-Req-IO** - This is the request message to close brand details. An external system which intends to close brand details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- **CloseCBrandMaintenance-Res-Full** - This is the response message which is sent back to the external system when brand details are closed. The format of the message is called

'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- CloseCBrandMaintenance-Res-PK - This is the response message which is sent back to the external system when brand details are deleted. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.8.28 DeleteCBrandMaint

This is the operation code to delete brand details. It involves the following messages:

- DeleteCBrandMaintenance-Req-Full - This is the request message to delete brand details. An external system which intends to delete brand details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- DeleteCBrandMaintenance-Req-IO - This is the request message to delete brand details. An external system which intends to delete brand details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- DeleteCBrandMaintenance-Res-Full - This is the response message which is sent back to the external system when brand details are deleted. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- DeleteCBrandMaintenance-Res-PK - This is the response message which is sent back to the external system when brand details are deleted. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.8.29 QueryCBrandMaint

This is the operation code to query brand details. It involves the following messages:

- QueryCBrandMaint-Req-Full - This is the request message to query a brand details. An external system which intends to query brand details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryCBrandMaint-Req-IO - This is the request message to query brand details. An external system which intends to query brand details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryCBrandMaint-Res-Full - This is the response message which is sent back to the external system when brand details are queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryCBrandMaint-Res-PK - This is the response message which is sent back to the external system when brand details are queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.8.30 QueryTrnCost

This is the operation code to query the transaction cost. It involves the following message:

- ST-QueryTransactionCostDisplay-Req-Full-MSG - This is the request message to query on transaction cost. An external system which intends to query the transaction cost has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ST-QueryTransactionCostDisplay-Res-Full-MSG - This is the response message which will be sent back to the external system when a transaction cost is successfully queried in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

6.2.8.31 CreateCityCode

This is the operation code for creating city code maintenance in Oracle FLEXCUBE. It involves the following messages:

- CreateCityCode-Req - This is the request message to create city code maintenance in Oracle FLEXCUBE UBS. An external system which intends to create city code maintenance has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for creating Embargo maintenance.
- CreateCityCode-Res-Full - This is the response message which will be sent back to the external system when city code maintenance is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CreateCityCode-Res-PK - This is the response message which will be sent back to the external system when city code maintenance is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of a city code maintenance record in the Oracle FLEXCUBE data store.

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- CreateCityCode-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to create city code maintenance fails due to any functional error.

6.2.8.32 ModifyCityCode

This is the operation code for modifying city code maintenance in Oracle FLEXCUBE. It involves the following messages:

- ModifyCityCode-Req - This is the request message to modify city code maintenance in Oracle FLEXCUBE UBS. An external system which intends to city code maintenance has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for modifying Embargo maintenance.
- ModifyCityCode-Res-Full - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ModifyCityCode-Res-PK - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which

includes only the primary key fields of city code maintenance record in the Oracle FLEXCUBE data store.

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- **ModifyCityCode-Flt** - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to modify city code maintenance fails due to any functional error.

6.2.8.33 **CloseCityCode**

This is the operation code for closing city code maintenance in Oracle FLEXCUBE. It involves the following messages:

- **CloseCityCode-Req** - This is the request message to close city code maintenance in Oracle FLEXCUBE UBS. An external system which intends to city code maintenance has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for closing Embargo maintenance.
- **CloseCityCode-Res-Full** - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CloseCityCode-Res-PK** - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of city code maintenance record in the Oracle FLEXCUBE data store.

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- **CloseCityCode-Flt** - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to close city code maintenance fails due to any functional error.

6.2.8.34 **QueryCityCode**

This is the operation code for querying city code maintenance in Oracle FLEXCUBE. It involves the following messages:

- **QueryCityCode-Req** - This is the request message to query city code maintenance in Oracle FLEXCUBE UBS. An external system which intends to city code maintenance has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for querying Embargo maintenance.
- **QueryCityCode-Res-Full** - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **QueryCityCode-Res-PK** - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of city code maintenance record in the Oracle FLEXCUBE data store.

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- QueryCityCode-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to query city code maintenance fails due to any functional error.

6.2.8.35 ReopenCityCode

This is the operation code for Reopening city code maintenance in Oracle FLEXCUBE. It involves the following messages:

- ReopenCityCode-Req - This is the request message to reopen city code maintenance in Oracle FLEXCUBE UBS. An external system which intends to city code maintenance has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for reopening Embargo maintenance.
- ReopenCityCode-Res-Full - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ReopenCityCode-Res-PK - This is the response message which will be sent back to the external system when city code maintenance is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of city code maintenance record in the Oracle FLEXCUBE data store.

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- ReopenCityCode-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to reopen city code maintenance fails due to any functional error.

6.2.8.36 NewPassbookLog

NewPassbookLog-Req-Full-MSG.- This is the request message sent by the external system for creation of a new passbook log. An external system which intends to create a new passbook log has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

6.2.8.37 AuthPassbookLog

AuthPassbookLog-Req-Full-MSG - This is the request message sent by the external system for authorization of a passbook log. An external system which intends to authorize a passbook log has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

6.2.8.38 DeletePassbookLog

DeletePassbookLog-Req-Full-MSG - This is the request message sent by the external system for deletion of a passbook log. An external system which intends to delete a passbook log has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

6.2.8.39 CreateCustCatMaint

This operation creates a Customer Category Maintenance in Oracle FLEXCUBE. An external system which intends to create a customer category has to send the request in the format specified.

6.2.8.40 ModifyCustCatMaint

This operation modifies a Customer Category Maintenance in Oracle FLEXCUBE. An external system which intends to modify a customer category has to send the request in the format specified.

6.2.8.41 QueryCustCatMaint

This operation queries a Customer Category Maintenance in Oracle FLEXCUBE. An external system which intends to query a customer category has to send the request in the format specified.

6.2.9 FCUBSPARQRYSerivce

All the operations that are exposed as part of the Integrated parity services are logically grouped under a service called 'FCUBSPARQRYSerivce'. Oracle FLEXCUBE supports the following operations under this service:

- QueryParityMismatch - Message to query the parity mismatch

6.2.10 FCUBSTDSerivce

All the operations that can be performed on a Term Deposit account are logically grouped under a service called 'FCUBSTDSerivce'. Oracle FLEXCUBE supports the following operations under this service:

- ModifyTDAcc
- CreateTDAcc
- QueryTDAcc
- QueryTDEndorHist
- •CreateFraction
- •AuthorizeFraction
- •ModifyFraction
- •QueryFraction
- •DeleteFraction
- •CreatePrepmntReq
- •ModifyPrepmntReq
- •QueryPrepmntReq
- SavePrePmntReq
- •TDRedemSave
- •QueryTDPrintcert
- •Create TDPayin
- •Reverse TDPayin
- •Authorize TDAcc
- •CloseTDAcc

- DeleteTDAcc

6.2.10.1 ModifyTDAcc

This is the operation code for modifying a Term Deposit account in Oracle FLEXCUBE. It involves the following messages:

- TD-Account-Modify-Req - This is the request message to modify a Term Deposit (TD) account in Oracle FLEXCUBE UBS. An external system which intends to modify the TD has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for modifying a TD.
- TD-Account-Modify-Res-Full - This is the response message which will be sent back to the external system when a Term Deposit (TD) account is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- TD-Account-Modify-Res-PK - This is the response message which will be sent back to the external system when a Term Deposit (TD) is successfully modified in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the TD record in the Oracle FLEXCUBE data store.

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- TD-Rollover-Modify-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to modify a Term Deposit fails due to any functional error.

6.2.10.2 Create TDAcc

This is the operation code for creating a Term Deposit account in Oracle FLEXCUBE. It involves the following messages:

- TD-Account-Create-Req - This is the request message to create a Term Deposit (TD) account in Oracle FLEXCUBE UBS. An external system which intends to create the TD has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for creating a TD.
- TD-Account- Create-Res-Full - This is the response message which will be sent back to the external system when a Term Deposit (TD) account is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', will includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- TD-Account- Create-Res-PK - This is the response message which will be sent back to the external system when a Term Deposit (TD) is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the TD record in the Oracle FLEXCUBE data store.

Note: This response will be sent if the response Message Exchange Pattern in the Gateway External system maintenance is set as Primary Key.

- TD-Rollover- Create-Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to create a Term Deposit fails due to any functional error.

6.2.10.3 QueryTDAcc

This is the operation code for querying a Term Deposit account in Oracle FLEXCUBE. It involves the following messages:

- ModifyPmtAgreement
- ClosePmtAgreement
- ReopenPmtAgreement
- QueryPmtAgreement
- AmendPmtMode
- QueryPmtMode
- PmtAuthorize
- AmendPmtExt
- QueryPmtExt
- PmtExtAuthorize
- ModifyFunding
- AuthorizeFunding
- DeleteFunding
- QueryFunding

6.2.11.1 CreatePCBeneficiary

This is the operation code to create a payment and collection beneficiary. It involves the following messages:

- CreatePCBeneficiary -Req-Full-MSG - This is the request message to create a payment and collection beneficiary. An external system which intends to create a payment and collection beneficiary has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CreatePCBeneficiary -Req-IO-MSG - This is the request message to create a payment and collection beneficiary. An external system which intends to create a payment and collection beneficiary has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CreatePCBeneficiary -Res-Full-MSG - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CreatePCBeneficiary -Res-PK-MSG - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.2 ModifyPCBeneficiary

This is the operation code to modify a payment and collection beneficiary. It involves the following messages:

- ModifyPCBeneficiary -Req-Full-MSG - This is the request message to modify a payment and collection beneficiary. An external system which intends to modify a payment and collection beneficiary has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ModifyPCBeneficiary -Req-IO-MSG - This is the request message to modify a payment and collection beneficiary. An external system which intends to modify a payment and

collection beneficiary has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.

- **ModifyPCBeneficiary -Res-Full-MSG** - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **ModifyPCBeneficiary -Res-PK-MSG** - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.3 ClosePCBeneficiary

This is the operation code to close a payment and collection beneficiary. It involves the following messages:

- **ClosePCBeneficiary -Req-Full-MSG** - This is the request message to close a payment and collection beneficiary. An external system which intends to close a payment and collection beneficiary has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **ClosePCBeneficiary -Req-IO-MSG** - This is the request message to close a payment and collection beneficiary. An external system which intends to close a payment and collection beneficiary has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- **ClosePCBeneficiary -Res-Full-MSG** - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **ClosePCBeneficiary -Res-PK-MSG** - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.4 ReopenPCBeneficiary

This is the operation code to reopen a payment and collection beneficiary. It involves the following messages:

- **ReopenPCBeneficiary -Req-Full-MSG** - This is the request message to reopen a payment and collection beneficiary. An external system which intends to reopen a payment and collection beneficiary has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **ReopenPCBeneficiary -Req-IO-MSG** - This is the request message to reopen a payment and collection beneficiary. An external system which intends to reopen a payment and collection beneficiary has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- **ReopenPCBeneficiary -Res-Full-MSG** - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **ReopenPCBeneficiary -Res-PK-MSG** - This is the response message which is sent back to the external system when a payment and collection beneficiary is done. The format of

the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.5 BeneficiaryMaintenanceNew

This is the operation code for creating a beneficiary in Oracle FLEXCUBE. It involves the following messages:

- NewBeneficiaryMaintenance -Req - This is the request message to create a beneficiary in Oracle FLEXCUBE UBS. An external system which intends to create a beneficiary has to send the request in the specified format. The format of the message is called 'Input-only', which has only those fields that are actually required for creating a beneficiary.
- NewBeneficiaryMaintenance -Res-Full - This is the response message which will be sent back to the external system when a beneficiary is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- NewBeneficiaryMaintenance -Res-PK - This is the response message which will be sent back to the external system when a beneficiary is successfully created in Oracle FLEXCUBE UBS. The format of the message is called 'Primary-Key response', which includes only the primary key fields of card record in the Oracle FLEXCUBE data store.
- NewBeneficiaryMaintenance -Flt - This XML message indicates the error response generated by Oracle FLEXCUBE when the processing of request to create a beneficiary fails due to any functional error.

6.2.11.6 BeneficiaryMaintenanceMod

This is the operation code to Modify beneficiary details. It involves the following messages:

- ModifyBeneficiaryMaintenance-Req-Full - This is the request message to modify beneficiary details. An external system which intends to modify beneficiary details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ModifyBeneficiaryMaintenance-Req-IO - This is the request message to modify beneficiary details. An external system which intends to modify beneficiary details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ModifyBeneficiaryMaintenance-Res-Full - This is the response message which is sent back to the external system when beneficiary details are modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ModifyBeneficiaryMaintenance-Res-PK - This is the response message which is sent back to the external system when beneficiary details are modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.11.7 BeneficiaryMaintenanceCls

This is the operation code to close beneficiary details. It involves the following messages:

- CloseBeneficiaryMaintenance-Req-Full - This is the request message to close beneficiary details. An external system which intends to close beneficiary details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- CloseBeneficiaryMaintenance-Req-IO - This is the request message to close beneficiary details. An external system which intends to close beneficiary details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CloseBeneficiaryMaintenance-Res-Full - This is the response message which is sent back to the external system when beneficiary details are closed. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CloseBeneficiaryMaintenance-Res-PK - This is the response message which is sent back to the external system when beneficiary details are closed. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.11.8 BeneficiaryMaintenanceRpn

This is the operation code to close beneficiary details. It involves the following messages:

- ReopenBeneficiaryMaintenance-Req-Full - This is the request message to reopen beneficiary details. An external system which intends to reopen beneficiary details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ReopenBeneficiaryMaintenance-Req-IO - This is the request message to reopen beneficiary details. An external system which intends to reopen beneficiary details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ReopenBeneficiaryMaintenance-Res-Full - This is the response message which is sent back to the external system when beneficiary details are reopened. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ReopenBeneficiaryMaintenance-Res-PK - This is the response message which is sent back to the external system when beneficiary details are reopened. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.11.9 BeneficiaryMaintenanceExq

This is the operation code to query beneficiary details. It involves the following messages:

- QueryBeneficiaryMaint-Req-Full - This is the request message to query a beneficiary details. An external system which intends to query beneficiary details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryBeneficiaryMaint-Req-IO - This is the request message to query beneficiary details. An external system which intends to query beneficiary details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryBeneficiaryMaint-Res-Full - This is the response message which is sent back to the external system when beneficiary details are queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryBeneficiaryMaint-Res-PK - This is the response message which is sent back to the external system when beneficiary details are queried. The format of the message is

called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.11.10 CreatePmtAgreement

This is the operation code to create a payment agreement. It involves the following messages:

- CreatePmtAgreement -Req-Full-MSG - This is the request message to create a payment and collection agreement. An external system which intends to create a payment agreement has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CreatePmtAgreement -Req-IO-MSG - This is the request message to create a payment agreement. An external system which intends to create a payment agreement has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CreatePmtAgreement -Res-Full-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CreatePmtAgreement -Res-PK-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.11 ModifyPmtAgreement

This is the operation code to modify a payment agreement. It involves the following messages:

- ModifyPmtAgreement -Req-Full-MSG - This is the request message to modify a payment agreement. An external system which intends to modify a payment agreement has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ModifyPmtAgreement -Req-IO-MSG - This is the request message to modify a payment agreement. An external system which intends to modify a payment agreement has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ModifyPmtAgreement -Res-Full-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ModifyPmtAgreement -Res-PK-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.12 ClosePmtAgreement

This is the operation code to close a payment agreement. It involves the following messages:

- ClosePmtAgreement -Req-Full-MSG - This is the request message to close a payment agreement. An external system which intends to close a payment agreement has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- ClosePmtAgreement -Req-IO-MSG - This is the request message to close a payment agreement. An external system which intends to close a payment agreement has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ClosePmtAgreement -Res-Full-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ClosePmtAgreement -Res-PK-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.13 ReopenPmtAgreement

This is the operation code to reopen a payment agreement. It involves the following messages:

- ReopenPmtAgreement -Req-Full-MSG - This is the request message to reopen a payment agreement. An external system which intends to reopen a payment agreement has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ReopenPmtAgreement -Req-IO-MSG - This is the request message to reopen a payment agreement. An external system which intends to reopen a payment agreement has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ReopenPmtAgreement -Res-Full-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ReopenPmtAgreement -Res-PK-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.14 QueryPmtAgreement

This is the operation code to query a payment agreement. It involves the following messages:

- QueryPmtAgreement -Req-Full-MSG - This is the request message to query a payment agreement. An external system which intends to query a payment agreement has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryPmtAgreement -Req-IO-MSG - This is the request message to query a payment agreement. An external system which intends to query a payment agreement has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryPmtAgreement -Res-Full-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryPmtAgreement -Res-PK-MSG - This is the response message which is sent back to the external system when a payment agreement is done. The format of the message is

called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.15 AmendPmtMode

This is the operation code to amend a payment mode. It involves the following messages:

- AmendPmtMode -Req-Full-MSG - This is the request message to amend a payment mode. An external system which intends to amend a payment mode has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- AmendPmtMode -Req-IO-MSG - This is the request message to amend a payment mode. An external system which intends to amend a payment mode has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to amend.
- AmendPmtMode -Res-Full-MSG - This is the response message which is sent back to the external system when a payment mode is amended. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- AmendPmtMode -Res-PK-MSG - This is the response message which is sent back to the external system when a payment mode is amended. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.16 QueryPmtMode

This is the operation code to query a payment mode. It involves the following messages:

- QueryPmtMode -Req-Full-MSG - This is the request message to query a payment mode. An external system which intends to query a payment mode has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryPmtMode -Req-IO-MSG - This is the request message to query a payment mode. An external system which intends to query a payment mode has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryPmtMode -Res-Full-MSG - This is the response message which is sent back to the external system when a payment mode is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryPmtMode -Res-PK-MSG - This is the response message which is sent back to the external system when a payment mode is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.17 PmtAuthorize

This is the operation code to authorize a payment . It involves the following messages:

- AuthorizePmt -Req-Full-MSG - This is the request message to authorize a payment .An external system which intends to authorize a payment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- AuthorizePmt -Req-IO-MSG - This is the request message to authorize a payment .An external system which intends to authorize a payment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to authorize.
- AuthorizePmt -Res-Full-MSG - This is the response message which is sent back to the external system when a payment is authorized. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- AuthorizePmt -Res-PK-MSG - This is the response message which is sent back to the external system when a payment is authorized. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.18 **AmendPmtExt**

This is the operation code to amend a payment extension. It involves the following messages:

- AmendPmtExtention -Req-Full-MSG - This is the request message to amend a payment extension. An external system which intends to amend a payment extension has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- AmendPmtExtention -Req-IO-MSG - This is the request message to amend a payment extension. An external system which intends to amend a payment extension has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to amend.
- AmendPmtExtention -Res-Full-MSG - This is the response message which is sent back to the external system when a payment extension is amended. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- AmendPmtExtention -Res-PK-MSG - This is the response message which is sent back to the external system when a payment extension is amended. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.19 **QueryPmtExt**

This is the operation code to query a payment extension. It involves the following messages:

- QueryPmtExtention -Req-Full-MSG - This is the request message to query a payment extension. An external system which intends to query a payment extension has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryPmtExtention -Req-IO-MSG - This is the request message to query a payment extension. An external system which intends to query a payment extension has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryPmtExtention -Res-Full-MSG - This is the response message which is sent back to the external system when a payment extension is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryPmtExtention -Res-PK-MSG - This is the response message which is sent back to the external system when a payment extension is queried. The format of the message is

called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.20 PmtExtAuthorize

This is the operation code to authorize a payment extension. It involves the following messages:

- AuthorizePmtExt -Req-Full-MSG - This is the request message to authorize a payment extension. An external system which intends to authorize a payment extension has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- AuthorizePmtExt -Req-IO-MSG - This is the request message to authorize a payment extension. An external system which intends to authorize a payment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to authorize.
- AuthorizePmtExt -Res-Full-MSG - This is the response message which is sent back to the external system when a payment extension is authorized. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- AuthorizePmtExt -Res-PK-MSG - This is the response message which is sent back to the external system when a payment extension is authorized. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.21 ModifyFunding

This is the operation code to modify a online funding. It involves the following messages:

- ModifyPCFunding -Req-Full-MSG - This is the request message to modify an online funding. An external system which intends to modify an online funding has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ModifyPCFunding -Req-IO-MSG - This is the request message to modify an online funding. An external system which intends to modify an online funding has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ModifyPCFunding -Res-Full-MSG - This is the response message which is sent back to the external system when an online funding is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ModifyPCFunding -Res-PK-MSG - This is the response message which is sent back to the external system when an online funding is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.11.22 AuthorizeFunding

This is the operation code to authorize an online funding. It involves the following messages:

- AuthPCFunding -Req-Full-MSG - This is the request message to authorize an online beneficiary. An external system which intends to authorize an online beneficiary has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.12 FCUBSCAService

- CreateCheckTax
- ModifyCheckTax
- QueryCheckTax

6.2.12.1 CreateCheckTax

This is the operation code to create Check Tax Parameter. It involves the following messages:

- CreateCheckTax-Req-Full-MSG - This is the request message to create Check Tax Parameter. An external system which intends to create Check Tax Parameter has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CreateCheckTax-Req-IO-MSG - This is the request message to create Check Tax Parameter. An external system which intends to create Check Tax Parameter has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CreateCheckTax-Res-Full-MSG - This is the response message which is sent back to the external system when Check Tax Parameter is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CreateCheckTax-Res-PK-MSG - This is the response message which is sent back to the external system when Check Tax Parameter is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.12.2 ModifyCheckTax

This is the operation code to modify Check Tax Parameter. It involves the following messages:

- ModifyCheckTax-Req-Full-MSG - This is the request message to modify Check Tax Parameter. An external system which intends to modify Check Tax Parameter has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ModifyCheckTax-Req-IO-MSG - This is the request message to modify Check Tax Parameter. An external system which intends to modify Check Tax Parameter has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ModifyCheckTax-Res-Full-MSG - This is the response message which is sent back to the external system when Check Tax Parameter is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ModifyCheckTax-Res-PK-MSG - This is the response message which is sent back to the external system when Check Tax Parameter is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.12.3 QueryCheckTax

This is the operation code to query Check Tax Parameter. It involves the following messages:

- QueryCheckTax-Req-Full-MSG - This is the request message to query Check Tax Parameter. An external system which intends to query Check Tax Parameter has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryCheckTax-Req-IO-MSG - This is the request message to query Check Tax Parameter. An external system which intends to query Check Tax Parameter has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryCheckTax-Res-Full-MSG - This is the response message which is sent back to the external system when Check Tax Parameter is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryCheckTax-Res-PK-MSG - This is the response message which is sent back to the external system when Check Tax Parameter is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields in the Oracle FLEXCUBE data store.

6.2.13 FCUBSICService

All the operations that can be performed on Interest and Charges module are logically grouped under a service called 'FCUBSICService'. Oracle FLEXCUBE supports the following operation codes under this service:

- CreateInterestAdjustment
- ModifyInterestAdjustment
- CloseInterestAdjustment
- ReopenInterestAdjustment
- QueryInterestAdjustment

6.2.13.1 CreateInterestAdjustment

This is the operation code to create interest adjustment for branch, account, product and next liquidation date combination. It involves the following messages:

- CreateInterestAdjustment-Req-Full-MSG - This is the request message to create interest adjustment. An external system which intends to create interest adjustment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CreateInterestAdjustment-Req-IO-MSG - This is the request message to create interest adjustment. An external system which intends to create interest adjustment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CreateInterestAdjustment-Res-Full-MSG - This is the response message which is sent back to the external system when interest adjustment is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CreateInterestAdjustment-Res-PK-MSG - This is the response message which is sent back to the external system when interest adjustment is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.13.2 ModifyInterestAdjustment

This is the operation code to modify interest adjustment for branch, account, product and next liquidation date combination. It involves the following messages:

- **ModifyInterestAdjustment-Req-Full-MSG** - This is the request message to modify interest adjustment. An external system which intends to modify interest adjustment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **ModifyInterestAdjustment-Req-IO-MSG** - This is the request message to modify interest adjustment. An external system which intends to modify interest adjustment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- **ModifyInterestAdjustment-Res-Full-MSG** - This is the response message which is sent back to the external system when interest adjustment is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **ModifyInterestAdjustment-Res-PK-MSG** - This is the response message which is sent back to the external system when interest adjustment is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.13.3 CloseInterestAdjustment

This is the operation code to close interest adjustment for branch, account, product and next liquidation date combination. It involves the following messages:

- **CloseInterestAdjustment-Req-Full-MSG** - This is the request message to close interest adjustment. An external system which intends to close interest adjustment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CloseInterestAdjustment-Req-IO-MSG** - This is the request message to close interest adjustment. An external system which intends to close interest adjustment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- **CloseInterestAdjustment-Res-Full-MSG** - This is the response message which is sent back to the external system when interest adjustment is closed. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CloseInterestAdjustment-Res-PK-MSG** - This is the response message which is sent back to the external system when interest adjustment is closed. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.13.4 ReopenInterestAdjustment

This is the operation code to re-open interest adjustment for branch, account, product and next liquidation date combination. It involves the following messages:

- **ReopenInterestAdjustment-Req-Full-MSG** - This is the request message to reopen interest adjustment. An external system which intends to close interest adjustment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- ReopenInterestAdjustment-Req-IO-MSG - This is the request message to close interest adjustment. An external system which intends to reopen interest adjustment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- ReopenInterestAdjustment-Res-Full-MSG - This is the response message which is sent back to the external system when interest adjustment is reopened. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ReopenInterestAdjustment-Res-PK-MSG - This is the response message which is sent back to the external system when interest adjustment is reopened. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.13.5 **QueryInterestAdjustment**

This is the operation code to query interest adjustment for branch, account, product and next liquidation date combination. It involves the following messages:

- QueryInterestAdjustment-Req-Full-MSG - This is the request message to query interest adjustment. An external system which intends to query interest adjustment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryInterestAdjustment-Req-IO-MSG - This is the request message to query interest adjustment. An external system which intends to reopen interest adjustment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryInterestAdjustment-Res-Full-MSG - This is the response message which is sent back to the external system when interest adjustment is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryInterestAdjustment-Res-PK-MSG - This is the response message which is sent back to the external system when interest adjustment is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.13.6 **AuthorizeInterestAdjustment**

This is the operation code to query interest adjustment for branch, account, product and next liquidation date combination. It involves the following messages:

- AuthorizeInterestAdjustment-Req-Full-MSG - This is the request message to authorize interest adjustment. An external system which intends to authorize interest adjustment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- AuthorizeInterestAdjustment-Req-IO-MSG - This is the request message to authorize interest adjustment. An external system which intends to authorize interest adjustment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- AuthorizeInterestAdjustment-Res-Full-MSG - This is the response message which is sent back to the external system when interest adjustment is authorized. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- AuthorizeInterestAdjustment-Res-PK-MSG - This is the response message which is sent back to the external system when interest adjustment is authorized. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the record in the Oracle FLEXCUBE data store.

6.2.13.7 DeleteInterestAdjustment

This is the operation code to delete interest adjustment for branch, account, product and next liquidation date combination. It involves the following messages:

- DeleteInterestAdjustment-Req-Full-MSG - This is the request message to delete interest adjustment. An external system which intends to delete interest adjustment has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- DeleteInterestAdjustment-Req-IO-MSG - This is the request message to delete interest adjustment. An external system which intends to delete interest adjustment has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- DeleteInterestAdjustment-Res-Full-MSG - This is the response message which is sent back to the external system when interest adjustment is deleted. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- DeleteInterestAdjustment-Res-PK-MSG - This is the response message which is sent back to the external system when interest adjustment is deleted. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.14 FCUBSILService

All the operations that can be performed on Integrated LM module are logically grouped under a service called 'FCUBSILServic'. Oracle FLEXCUBE supports the following operation codes under this service:

- CreateILSweep
- DeleteILSweep
- ModifyILSweep

6.2.14.1 CreateILSweep

This is the operation code to create account structure for sweep for branch, account, product and next liquidation date combination. It involves the following messages:

- CreateILSweep-Req-Full-MSG - This is the request message to create account structure for sweep. An external system which intends to create account structure for sweep has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CreateILSweep-Req-IO-MSG - This is the request message to create account structure for sweep for sweep. An external system which intends to create account structure for sweep has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CreateILSweep-Res-Full-MSG - This is the response message which is sent back to the external system when account structure for sweep is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- CreateCollAgreement
- AmendCollAgreement
- CloseCollAgreement
- ReopenCollAgreement
- QueryCollAgreement
- CreateCollDetails
- AmendCollDetails
- QueryCollDetails

6.2.15.1 **CreateCollAgreement**

This is the operation code to create coll agreement. It involves the following messages:

- CreateCollAgreement - Req-Full - This is the request message to create new collection service agreement. An external system which intends to create new collection service agreement has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CreateCollAgreement - Req-IO - This is the request message to create new collection service agreement. An external system which intends to create new collection service agreement has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- CreateCollAgreement - Res-Full - This is the response message which is sent back to the external system when new collection service agreement is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CreateCollAgreement - Res-PK - This is the response message which is sent back to the external system when new collection service agreement is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.15.2 **AmendCollAgreement**

This is the operation code to amend coll agreement. It involves the following messages:

- AmendCollAgreement - Req-Full - This is the request message to amend a collection service agreement. An external system which intends to amend a collection service agreement has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- AmendeCollAgreement - Req-IO - This is the request message to amend a collection service agreement. An external system which intends to amend a collection service agreement has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- AmendeCollAgreement - Res-Full - This is the response message which is sent back to the external system when a collection service agreement is done. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- AmendeCollAgreement - Res-PK - This is the response message which is sent back to the external system when a collection service agreement is done. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.15.8 QueryCollDetails

This is the operation code to query collection details. It involves the following messages:

- QueryCollDetails - Req-Full - This is the request message to query service details. An external system which intends to query service details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryCollDetails - Req-IO - This is the request message to query service details. An external system which intends to query service details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryCollDetails - Res-Full - This is the response message which is sent back to the external system when service details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryCollDetails - Res-PK - This is the response message which is sent back to the external system when service details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16 FCUBSCLService

All the operations that can be performed on Retail Lending module are logically grouped under a service called 'FCUBSCLService'. Oracle FLEXCUBE supports the following operation codes under this service:

- QueryPayment
- CreatePayment
- DeletePayment
- ReversePayment
- ModifyAccount
- CreateAccount
- QueryAccount
- CreateVami
- QueryProduct
- QueryCllInfo
- CreateDisbursement
- QueryDisbursement
- DeleteDisbursement
- ReverseDisbursement

6.2.16.1 QueryPayment

This is the operation code to query payment details. It involves the following messages:

- QueryPaymentDetails - Req-Full - This is the request message to query payment details. An external system which intends to query payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- QueryPaymentDetails - Req-IO - This is the request message to query payment details. An external system which intends to query payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryPaymentDetails - Res-Full - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryPaymentDetails - Res-PK - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.2 CreatePayment

This is the operation code is to save payment details. It involves the following messages:

- SavePaymentDetails - Req-Full - This is the request message to save payment details. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- SavePaymentDetails - Req-IO - This is the request message to save payment details. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- SavePaymentDetails - Res-Full - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- SavePaymentDetails - Res-PK - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.3 DeletePayment

This is the operation code is to delete payment details. It involves the following messages:

- DeletePaymentDetails - Req-Full - This is the request message to delete payment details. An external system which intends to delete payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- DeletePaymentDetails - Req-IO - This is the request message to delete payment details. An external system which intends to delete payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to delete.
- DeletePaymentDetails - Res-Full - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- DeletePaymentDetails - Res-PK - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is

called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.4 **ReversePayment**

This is the operation code is to reverse payment details. It involves the following messages:

- ReversePaymentDetails - Req-Full - This is the request message to reverse payment details. An external system which intends to reverse payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ReversePaymentDetails - Req-IO - This is the request message to reverse payment details. An external system which intends to reverse payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to reverse.
- ReversePaymentDetails - Res-Full - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ReversePaymentDetails - Res-PK - This is the response message which is sent back to the external system when payment details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.5 **ModifyAccount**

This is the operation code is to modify loan account details. It involves the following messages:

- ModifyLoan accountDetails - Req-Full - This is the request message to modify loan account details. An external system which intends to modify loan account details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ModifyLoan accountDetails - Req-IO - This is the request message to modify loan account details. An external system which intends to modify loan account details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to modify.
- ModifyLoan accountDetails - Res-Full - This is the response message which is sent back to the external system when loan account details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ModifyLoan accountDetails - Res-PK - This is the response message which is sent back to the external system when loan account details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.6 **CreateAccount**

This is the operation code is to save loan account details. It involves the following messages:

- SaveLoan accountDetails - Req-Full - This is the request message to save loan account details. An external system which intends to save loan account details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- SaveLoan accountDetails - Req-IO - This is the request message to save loan account details. An external system which intends to save loan account details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- SaveLoan accountDetails - Res-Full - This is the response message which is sent back to the external system when loan account details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- SaveLoan accountDetails - Res-PK - This is the response message which is sent back to the external system when loan account details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.7 QueryAccount

This is the operation code is to query loan account details. It involves the following messages:

- QueryLoan accountDetails - Req-Full - This is the request message to query loan account details. An external system which intends to query loan account details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryLoan accountDetails - Req-IO - This is the request message to query loan account details. An external system which intends to query loan account details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryLoan accountDetails - Res-Full - This is the response message which is sent back to the external system when loan account details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryLoan accountDetails - Res-PK - This is the response message which is sent back to the external system when loan account details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.8 CreateVami

This operation is used to save a Value dated Amendment in Oracle FLEXCUBE. It involves the following messages:

- SaveVami- Req-Full - This is the request message to save value dated amendment. An external system which intends to save value dated amendment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- SaveVami- Req-IO - This is the request message to save value dated amendment. An external system which intends to save value dated amendment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- SaveVami- Res-Full - This is the response message which is sent back to the external system when value dated amendment details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- SaveVami- Res-PK - This is the response message which is sent back to the external system when value dated amendment details are maintained. The format of the message

is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.9 QueryProduct

This operation is used to query the complete details of the Product. . It involves the following messages:

- QueryProduct - Req-Full - This is the request message to query details of a product. An external system which intends to query product details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryProduct- Req-IO - This is the request message to query details of a product. An external system which intends to query product details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryProduct- Res-Full - This is the response message which is sent back to the external system when product details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryProduct- Res-PK - This is the response message which is sent back to the external system when product details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.10 QueryCInfo

This operation is used to query the loan information in Oracle FLEXCUBE. It involves the following messages:

- QueryCInfoResponseDetails - Req-Full - This is the request message to query loan information. An external system which intends to query loan information has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryCInfoResponseDetails- Req-IO - This is the request message to query loan information. An external system which intends to query loan information has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to query.
- QueryCInfoResponseDetails- Res-Full - This is the response message which is sent back to the external system when loan account information are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryCInfoResponseDetails - Res-PK - This is the response message which is sent back to the external system when loan account information are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.11 CreateDisbursement

This operation is used to save a disbursement event in Oracle FLEXCUBE. It involves the following messages:

- CreateDisbursementDetails - Req-Full - This is the request message to create disbursement details. An external system which intends to save disbursement details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CreateDisbursementDetails - Req-IO - This is the request message to create disbursement details. An external system which intends to create disbursement details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CreateDisbursementDetails - Res-Full - This is the response message which is sent back to the external system when disbursement details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CreateDisbursementDetails - Res-PK - This is the response message which is sent back to the external system when disbursement details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.12 QueryDisbursement

This operation is used to query the complete loan disbursement Details. It involves the following messages:

- QueryDisbursementDetails - Req-Full - This is the request message query the disbursement details. An external system which intends to query the disbursement details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- QueryDisbursementDetails - Req-IO - This is the request message to query the disbursement details. An external system which intends to query the disbursement details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- QueryDisbursementDetails - Res-Full - This is the response message which is sent back to the external system when disbursement details are queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- QueryDisbursementDetails - Res-PK - This is the response message which is sent back to the external system when disbursement details are queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.13 DeleteDisbursement

This operation is used to delete the loan disbursement Details. It involves the following messages:

- DeleteDisbursementDetails - Req-Full - This is the request message to delete disbursement details. An external system which intends to save disbursement details has to send the request in the format specified. The format of the message is called 'Full-

screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- DeleteDisbursementDetails - Req-IO - This is the request message to delete disbursement details. An external system which intends to save disbursement details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- DeleteDisbursementDetails - Res-Full - This is the response message which is sent back to the external system when disbursement details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- DeleteDisbursementDetails - Res-PK - This is the response message which is sent back to the external system when disbursement details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.16.14 ReverseDisbursement

This operation is used to reverse the loan disbursement. It involves the following messages:

- ReverseDisbursementDetails - Req-Full - This is the request message to reverse disbursement details. An external system which intends to reverse disbursement details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- ReverseDisbursementDetails - Req-IO - This is the request message to reverse disbursement details. An external system which intends to reverse disbursement details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- ReverseDisbursementDetails - Res-Full - This is the response message which is sent back to the external system when disbursement details are maintained. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- ReverseDisbursementDetails - Res-PK - This is the response message which is sent back to the external system when disbursement details are maintained. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17 FCUBSCBService

All the operations that can be performed on collection bills module are logically grouped under a service called 'FCUBSCBService'. Oracle FLEXCUBE supports the following operations under this service:

- CBDTRONL_NEW
- CBDTRONL_EXECUTEQUERY
- CBDTRONL_DELETE
- CBDTRONL_AUTH
- CBDTRONL_MODIFY
- CBDTRONL_REVERSE
- CBGPMTON_NEW
- CBGPROON_NEW
- CBGEXTON_NEW

- CBGCLOON_NEW -
- CBDAGMON_NEW
- CBDAGMON_EXECUTEQUERY
- CBDAGMON_MODIFY
- CBDCCMNT_NEW
- CBDCCMNT_EXECUTEQUERY
- CBDCCMNT_MODIFY
- CBDCLMNT_NEW
- CBDCLMNT_EXECUTEQUERY
- CBDCLMNT_MODIFY
- CBDNRMNT_NEW
- CBDNRMNT_EXECUTEQUERY
- CBDNRMNT_MODIFY
- CBDDLMT_NEW
- CBDDLMT_EXECUTEQUERY
- CBDDLMT_MODIFY
- CBDDSMNT_NEW
- CBDDSMNT_EXECUTEQUERY
- CBDDSMNT_MODIFY
- CBDLOMNT_NEW
- CBDLOMNT_EXECUTEQUERY
- CBDLOMNT_MODIFY
- CBDPRMNT_EXECUTEQUERY
- CBDRQMNT_NEW
- CBDRQMNT_EXECUTEQUERY
- CBDRQMNT_MODIFY

6.2.17.1 **CBDTRONL_NEW**

This is the operation code is to create the CB contract. It involves the following messages:

- CBDTRONL_NEW - Req-Full - This is the request message to create CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDTRONL_NEW - Req-IO - This is the request message to create CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDTRONL_NEW - Res-Full - This is the response message which is sent back to the external system when contract is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDTRONL_NEW - Res-PK - This is the response message which is sent back to the external system when contract is created. The format of the message is called 'Primary-

Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.2 CBDTRONL_EXECUTEQUERY

This is the operation code is to query CB contract. It involves the following messages:

- **CBDTRONL_EXECUTEQUERY - Req-Full** - This is the request message to execute query a CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDTRONL_EXECUTEQUERY - Req-IO** - This is the request message to execute query a CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDTRONL_EXECUTEQUERY - Res-Full** - This is the response message which is sent back to the external system when query a CB contract is executed. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDTRONL_EXECUTEQUERY - Res-PK** - This is the response message which is sent back to the external system when query a CB contract is executed. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.3 CBDTRONL_DELETE

This is the operation code is to delete CB contract. It involves the following messages:

- **CBDTRONL_DELETE - Req-Full** - This is the request message to delete CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDTRONL_DELETE - Req-IO** - This is the request message to delete CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDTRONL_DELETE - Res-Full** - This is the response message which is sent back to the external system when CB contract is deleted. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDTRONL_DELETE - Res-PK** - This is the response message which is sent back to the external system when CB contract is deleted. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.4 CBDTRONL_AUTH

This is the operation code is to authorize CB contract. It involves the following messages:

- **CBDTRONL_AUTH - Req-Full** - This is the request message to authorize CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- **CBDTRONL_AUTH - Req-IO** - This is the request message to authorize CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDTRONL_AUTH - Res-Full** - This is the response message which is sent back to the external system when CB contract is authorized. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDTRONL_AUTH - Res-PK** - This is the response message which is sent back to the external system when CB contract is authorized. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.5 CBDTRONL MODIFY

This is the operation code is to modify CB contract. It involves the following messages:

- **CBDTRONL_MODIFY - Req-Full** - This is the request message to modify CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDTRONL_MODIFY - Req-IO** - This is the request message to modify CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDTRONL_MODIFY - Res-Full** - This is the response message which is sent back to the external system when CB contract is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDTRONL_MODIFY - Res-PK** - This is the response message which is sent back to the external system when CB contract is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.6 CBDTRONL REVERSE

This is the operation code is to reverse CB contract. It involves the following messages:

- **CBDTRONL_REVERSE - Req-Full** - This is the request message to reverse CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDTRONL_REVERSE - Req-IO** - This is the request message to reverse CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDTRONL_REVERSE - Res-Full** - This is the response message which is sent back to the external system when CB contract is reversed. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDTRONL_REVERSE - Res-PK** - This is the response message which is sent back to the external system when CB contract is reversed. The format of the message is called

'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.7 CBGPMTON_NEW

This is the operation code is to create a protest for CB contract. It involves the following messages:

- CBGPMTON_NEW - Req-Full - This is the request message to create a protest for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBGPMTON_NEW - Req-IO - This is the request message to create a protest for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBGPMTON_NEW - Res-Full - This is the response message which is sent back to the external system when a protest for CB contract is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBGPMTON_NEW - Res-PK - This is the response message which is sent back to the external system when a protest for CB contract is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.8 CBGPROON_NEW

This is the operation code is to create a protest for CB contract. It involves the following messages:

- CBGPROON_NEW - Req-Full - This is the request message to create a protest for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBGPROON_NEW - Req-IO - This is the request message to create a protest for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBGPROON_NEW - Res-Full - This is the response message which is sent back to the external system when a protest for CB contract is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBGPROON_NEW - Res-PK - This is the response message which is sent back to the external system when a protest for CB contract is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.9 CBGEXTON_NEW

This is the operation code is to create an extension for CB contract. It involves the following messages:

- CBGEXTON_NEW - Req-Full - This is the request message to create an extension for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which

includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- CBGEXTON_NEW - Req-IO - This is the request message to create an extension for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBGEXTON_NEW - Res-Full - This is the response message which is sent back to the external system when CB contract extension is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBGEXTON_NEW - Res-PK - This is the response message which is sent back to the external system when CB contract extension is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.10 CBGCLOON NEW

This is the operation code is to create a new CB operation closure record. It involves the following messages:

- CBGCLOON_NEW - Req-Full - This is the request message to create a new CB operation closure record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBGCLOON_NEW - Req-IO - This is the request message to create a new CB operation closure record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBGCLOON_NEW - Res-Full - This is the response message which is sent back to the external system when a new CB operation closure record is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBGCLOON_NEW - Res-PK - This is the response message which is sent back to the external system when a new CB operation closure record is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.11 CBDAGMON NEW

This is the operation code is to create a new CB agreement. It involves the following messages:

- CBDAGMON_NEW - Req-Full - This is the request message to create a new CB agreement. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDAGMON_NEW - Req-IO - This is the request message to create a new CB agreement. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDAGMON_NEW - Res-Full - This is the response message which is sent back to the external system when a new CB agreement is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- CBDAGMON_NEW - Res-PK - This is the response message which is sent back to the external system when a new CB agreement is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.12 **CBDAGMON_EXECUTEQUERY**

This is the operation code is to query CB agreement. It involves the following messages:

- CBDAGMON_EXECUTEQUERY- Req-Full - This is the request message to query CB agreement. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDAGMON_EXECUTEQUERY- Req-IO - This is the request message to query CB agreement. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDAGMON_EXECUTEQUERY- Res-Full - This is the response message which is sent back to the external system when CB agreement is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDAGMON_EXECUTEQUERY- Res-PK - This is the response message which is sent back to the external system when CB agreement is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.13 **CBDAGMON_MODIFY**

This is the operation code is to modify CB agreement. It involves the following messages:

- CBDAGMON_MODIFY- Req-Full - This is the request message to modify CB agreement. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDAGMON_MODIFY- Req-IO - This is the request message to modify CB agreement. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDAGMON_MODIFY- Res-Full - This is the response message which is sent back to the external system when CB agreement is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDAGMON_MODIFY- Res-PK - This is the response message which is sent back to the external system when CB agreement is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.14 **CBDCCMNT_NEW**

This is the operation code is to create a new collection center record. It involves the following messages:

- CBDCCMNT_NEW - Req-Full - This is the request message to create a new collection center record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which

includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- **CBDCCMNT_NEW - Req-IO** - This is the request message to create a new collection center record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDCCMNT_NEW - Res-Full** - This is the response message which is sent back to the external system when a new collection center record is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDCCMNT_NEW - Res-PK** - This is the response message which is sent back to the external system when a new collection center record is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.15 CBDCCMNT EXECUTEQUERY

This is the operation code is to query collection center record. It involves the following messages:

- **CBDCCMNT_EXECUTEQUERY - Req-Full** - This is the request message to query collection center record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDCCMNT_EXECUTEQUERY - Req-IO** - This is the request message to query collection center record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDCCMNT_EXECUTEQUERY - Res-Full** - This is the response message which is sent back to the external system when collection center record is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDCCMNT_EXECUTEQUERY - Res-PK** - This is the response message which is sent back to the external system when collection center record is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.16 CBDCCMNT MODIFY

This is the operation code is to modify collection center record. It involves the following messages:

- **CBDCCMNT_MODIFY - Req-Full** - This is the request message to modify collection center record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDCCMNT_MODIFY - Req-IO** - This is the request message to to modify collection center record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDCCMNT_MODIFY - Res-Full** - This is the response message which is sent back to the external system when collection center record is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- CBDCMNT_MODIFY - Res-PK - This is the response message which is sent back to the external system when collection center record is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.17 **CBDCLMNT_NEW**

This is the operation code is to create a new collection type record. It involves the following messages:

- CBDCLMNT_NEW - Req-Full - This is the request message to create a new collection type record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDCLMNT_NEW - Req-IO - This is the request message to create a new collection type record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDCLMNT_NEW - Res-Full - This is the response message which is sent back to the external system when a new collection type record is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDCLMNT_NEW - Res-PK - This is the response message which is sent back to the external system when a new collection type record is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.18 **CBDCLMNT_EXECUTEQUERY**

This is the operation code is to query for collection type record. It involves the following messages:

- CBDCLMNT_EXECUTEQUERY- Req-Full - This is the request message to query for collection type record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDCLMNT_EXECUTEQUERY- Req-IO - This is the request message to query for collection type record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDCLMNT_EXECUTEQUERY- Res-Full - This is the response message which is sent back to the external system when collection type record is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDCLMNT_EXECUTEQUERY- Res-PK - This is the response message which is sent back to the external system when collection type record is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.19 **CBDCLMNT_MODIFY**

This is the operation code is to modify collection type record. It involves the following messages:

- CBDCLMNT_MODIFY - Req-Full - This is the request message to modify collection type record. An external system which intends to save payment details has to send the request

in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- CBDCLMNT_MODIFY - Req-IO - This is the request message to modify collection type record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDCLMNT_MODIFY - Res-Full - This is the response message which is sent back to the external system when collection type record is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDCLMNT_MODIFY - Res-PK - This is the response message which is sent back to the external system when collection type record is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.20 **CBDNRMNT NEW**

This is the operation code is to create CB notary code record. It involves the following messages:

- CBDNRMNT_NEW - Req-Full - This is the request message to create CB notary code record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDNRMNT_NEW - Req-IO - This is the request message to create CB notary code record . An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDNRMNT_NEW - Res-Full - This is the response message which is sent back to the external system when CB notary code record is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDNRMNT_NEW - Res-PK - This is the response message which is sent back to the external system when CB notary code record is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.21 **CBDNRMNT EXECUTEQUERY**

This is the operation code is to query for CB notary code. It involves the following messages:

- CBDNRMNT_ EXECUTEQUERY- Req-Full - This is the request message to query for CB notary code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDNRMNT_ EXECUTEQUERY- Req-IO - This is the request message to query for CB notary code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDNRMNT_ EXECUTEQUERY- Res-Full - This is the response message which is sent back to the external system when query for CB notary code is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- **CBDNRMNT_EXECUTEQUERY- Res-PK** - This is the response message which is sent back to the external system when query for CB notary code is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.22 CBDNRMNT MODIFY

This is the operation code is to modify CB notary code record. It involves the following messages:

- **CBDNRMNT__MODIFY - Req-Full** - This is the request message to modify CB notary code record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDNRMNT__MODIFY - Req-IO** - This is the request message to modify CB notary code record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDNRMNT__MODIFY - Res-Full** - This is the response message which is sent back to the external system when CB notary code record is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDNRMNT__MODIFY - Res-PK** - This is the response message which is sent back to the external system when CB notary code record is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.23 CBDDLNMNT NEW

This is the operation code is to create a new CB document location record. It involves the following messages:

- **CBDDLNMNT_ NEW - Req-Full** - This is the request message to create a new CB document location record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDDLNMNT_ NEW - Req-IO** - This is the request message to create a new CB document location record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDDLNMNT_ NEW - Res-Full** - This is the response message which is sent back to the external system when CB document location record is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDDLNMNT_ NEW - Res-PK** - This is the response message which is sent back to the external system when CB document location record is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.24 CBDDLNMNT EXECUTEQUERY

This is the operation code is to query for CB document. It involves the following messages:

- **CBDDLNMNT_ EXECUTEQUERY- Req-Full** - This is the request message to query for CB document. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which

includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.

- CBDDLMTNNT_ EXECUTEQUERY- Req-IO - This is the request message to query for CB document. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDDLMTNNT_ EXECUTEQUERY- Res-Full - This is the response message which is sent back to the external system when query for CB document is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDDLMTNNT_ EXECUTEQUERY- Res-PK - This is the response message which is sent back to the external system when query for CB document is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.25 CBDDLMTNNT MODIFY

This is the operation code is to modify CB document location record. It involves the following messages:

- CBDDLMTNNT_MODIFY - Req-Full - This is the request message to modify CB document location record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDDLMTNNT_MODIFY - Req-IO - This is the request message to modify CB document location record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDDLMTNNT_MODIFY - Res-Full - This is the response message which is sent back to the external system when CB document location record is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDDLMTNNT_MODIFY - Res-PK - This is the response message which is sent back to the external system when CB document location record is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.26 CBDDSMNTNNT NEW

This is the operation code is to create the document status record. It involves the following messages:

- CBDDSMNTNNT_ NEW - Req-Full - This is the request message to create the document status record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDDSMNTNNT_ NEW - Req-IO - This is the request message to create the document status record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDDSMNTNNT_ NEW - Res-Full - This is the response message which is sent back to the external system when the document status record is created. The format of the message

is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- CBDDSMNT_NEW - Res-PK - This is the response message which is sent back to the external system when the document status record is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.27 CBDDSMNT_EXECUTEQUERY

This is the operation code is to create CB contract. It involves the following messages:

- CBDDSMNT_EXECUTEQUERY - Req-Full - This is the request message to create CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDDSMNT_EXECUTEQUERY - Req-IO - This is the request message to create CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDDSMNT_EXECUTEQUERY - Res-Full - This is the response message which is sent back to the external system when contract is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDDSMNT_EXECUTEQUERY - Res-PK - This is the response message which is sent back to the external system when contract is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.28 CBDDSMNT_MODIFY

This is the operation code is to modify the document status record. It involves the following messages:

- CBDDSMNT_MODIFY - Req-Full - This is the request message to modify the document status record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CBDDSMNT_MODIFY - Req-IO - This is the request message to modify the document status record. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CBDDSMNT_MODIFY - Res-Full - This is the response message which is sent back to the external system when the document status record is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CBDDSMNT_MODIFY - Res-PK - This is the response message which is sent back to the external system when the document status record is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.29 CBDL0MNT_NEW

This is the operation code is to create CB location code. It involves the following messages:

- **CBDLOMNT_ NEW - Req-Full** - This is the request message to create CB location code . An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDLOMNT_ NEW - Req-IO** - This is the request message to create CB location code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDLOMNT_ NEW - Res-Full** - This is the response message which is sent back to the external system when CB location code is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDLOMNT_ NEW - Res-PK** - This is the response message which is sent back to the external system when CB location code is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.30 CBDLOMNT_EXECUTEQUERY

This is the operation code is to query for CB location code. It involves the following messages:

- **CBDLOMNT_ EXECUTEQUERY- Req-Full** - This is the request message to query for CB location code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDLOMNT_ EXECUTEQUERY- Req-IO** - This is the request message to query for CB location code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDLOMNT_ EXECUTEQUERY- Res-Full** - This is the response message which is sent back to the external system when query for CB location code is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- **CBDLOMNT_ EXECUTEQUERY- Res-PK** - This is the response message which is sent back to the external system when query for CB location code is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.31 CBDLOMNT_MODIFY

This is the operation code is to modify CB location code. It involves the following messages:

- **CBDLOMNT_ MODIFY- Req-Full** - This is the request message to modify CB location code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- **CBDLOMNT_ MODIFY- Req-IO** - This is the request message to modify CB location code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- **CBDLOMNT_ MODIFY- Res-Full** - This is the response message which is sent back to the external system when CB location code is modified. The format of the message is called

'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.

- CBDLOMNT_MODIFY- Res-PK - This is the response message which is sent back to the external system when CB location code is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.32 **CB DPRMNT EXECUTEQUERY**

This is the operation code is to query for CB location code. It involves the following messages:

- CB DPRMNT_EXECUTEQUERY - Req-Full - This is the request message to query for CB location code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CB DPRMNT_EXECUTEQUERY - Req-IO - This is the request message to query for CB location code. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CB DPRMNT_EXECUTEQUERY - Res-Full - This is the response message which is sent back to the external system when query for CB location code is queried. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CB DPRMNT_EXECUTEQUERY - Res-PK - This is the response message which is sent back to the external system when query for CB location code is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.33 **CB DRQMNT NEW**

This is the operation code is to create extension request for CB contract. It involves the following messages:

- CB DRQMNT_NEW - Req-Full - This is the request message to create extension request for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CB DRQMNT_NEW - Req-IO - This is the request message to create extension request for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CB DRQMNT_NEW - Res-Full - This is the response message which is sent back to the external system when CB contract extension request is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CB DRQMNT_NEW - Res-PK - This is the response message which is sent back to the external system when CB contract extension request is created. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.34 **CB DRQMNT EXECUTEQUERY**

This is the operation code is to query extension request for CB contract. It involves the following messages:

- CDRQMNT_ EXECUTEQUERY - Req-Full - This is the request message to query extension request for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CDRQMNT_ EXECUTEQUERY - Req-IO - This is the request message to query extension request for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CDRQMNT_ EXECUTEQUERY - Res-Full - This is the response message which is sent back to the external system when an extension request for CB contract is queried contract is created. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CDRQMNT_ EXECUTEQUERY - Res-PK - This is the response message which is sent back to the external system when an extension request for CB contract is queried. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

6.2.17.35 CDRQMNT_MODIFY

This is the operation code is to modify extension request for CB contract.. It involves the following messages:

- CDRQMNT_ MODIFY - Req-Full - This is the request message to modify extension request for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Full-screen', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE front-end screen.
- CDRQMNT_ MODIFY - Req-IO - This is the request message to modify extension request for CB contract. An external system which intends to save payment details has to send the request in the format specified. The format of the message is called 'Input-only', which has only those fields that can be used to save.
- CDRQMNT_ MODIFY - Res-Full - This is the response message which is sent back to the external system when extension request for CB contract is modified. The format of the message is called 'Full-screen response', which includes all the fields (input fields and the display fields) as in the corresponding Oracle FLEXCUBE screen.
- CDRQMNT_ MODIFY - Res-PK - This is the response message which is sent back to the external system when extension request for CB contract is modified. The format of the message is called 'Primary-Key response', which includes only the primary key fields of the cheque book record in the Oracle FLEXCUBE data store.

7. Planned Outage Support Server

7.1 Introduction

Planned Outage Support Server (POSS) is the data replica of the host server and facilitates the channels to support the database server without any downtime during the planned outages.

When POSS is active:

- EOD will not run
- Non-Channel Interface has to be switched off.
- ELCM enterprise has to be switched off.
- Messaging and notification cannot be done.

A new server state XML is created for which the path is decided based on the entry in the properties file. The XML will contain a parameter <SERVERSTATE> which can have any of the following values:

- A – Available
- S – Sleep
- U – Unavailable
- R - Replay

Gateway EJB will take the request information from the SSB when the full session bean retains the information.

7.2 Handling Planned Outages

The various stages of planned outages are described as below:

7.2.1 Host Up

When the request comes from the channel, it will reach the Gateway EJB or MDB and the bean check for the state of server. If the server state is 'A' (Available), the bean picks up the JNDI host server details from the properties file and add a parameter to the xml which implies that the request is being served at the host.

Then the request will be processed at the back end and the response from the back end will reach the bean and then to the endpoint.

7.2.2 Outage Start

Using the restore point, the request data will be synchronized from host server to POSS. Before the planned outage, the server state has to be changed into 'S' (Sleep) from 'A' to indicate that the server will be down as soon as the synchronization starts.

During synchronization, if any new request comes to the bean, the gateway layer will reject the request and a XML error message will be generated. Once the synchronization is completed, the server state will be changed into 'U' (Unavailable) which indicates the bean that the host server is down and from then on any request that comes will be processed at POSS.

7.2.3 Host Down and POSS Up:

When the host is down and POSS is up, the server state will be 'U'. During this time, all the requests that reach the bean will be served at POSS. The bean picks up the JNDI details of POSS from the properties file, establishes a connection, and sends the request which will be logged into a table at the backend.

The log table will have details which will indicate if:

- the response has been built successfully
- the request has to be replayed at the host during replay
- any error has occurred and oracle SCN

The response is sent back to the bean which will send the response to the end point.

7.2.4 Host Up, Start Replay from POSS:

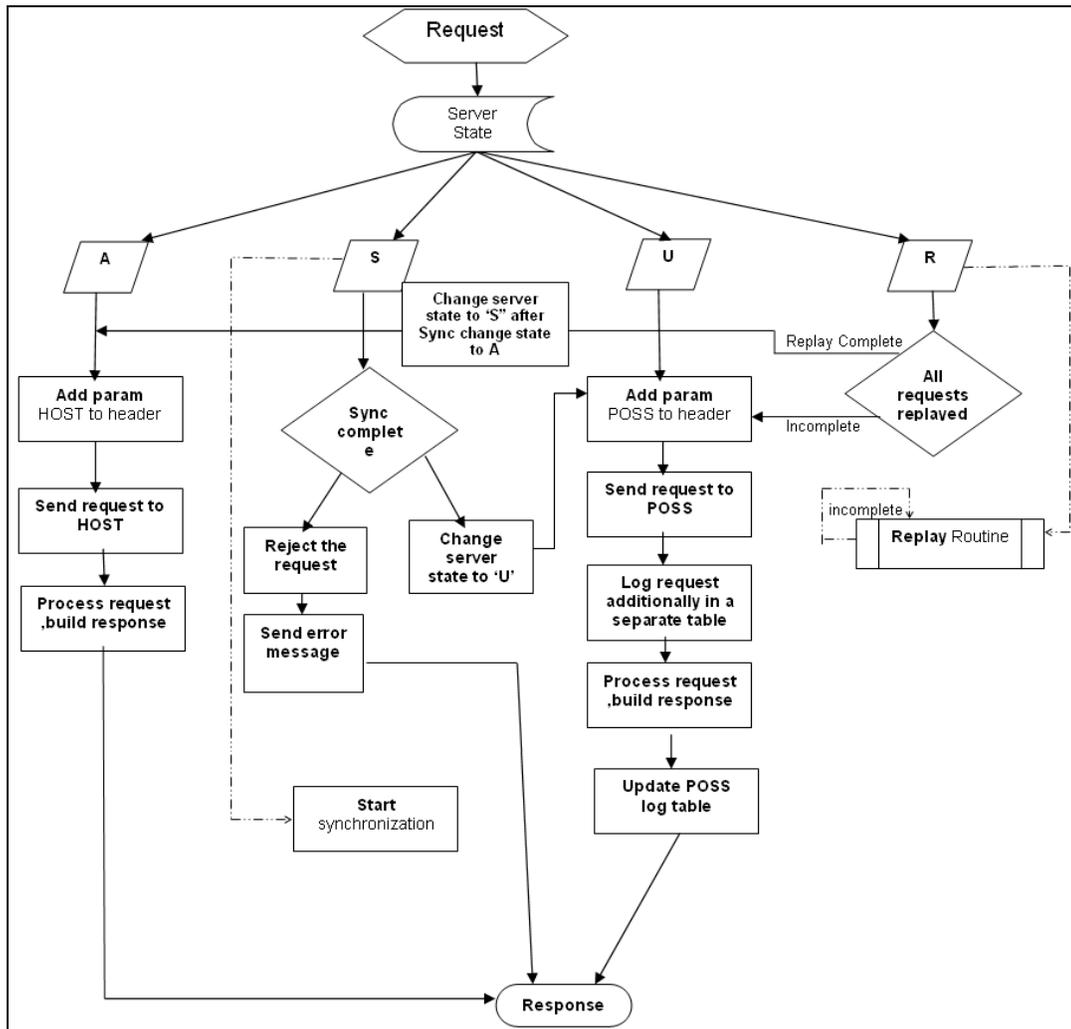
Once the host is up, a 'REPLAY ROUTINE' (which is a java routine) is carried out which consists of the following steps:

- The server state will be changed from 'U' to 'R' (Replay mode).
- The replay routine will get the requests from the log table at POSS for which response building has been completed and these will be replayed to the host.
- The replay routine logs all message logs and places the message onto Oracle AQ on the Host database.
- Multiple processes, equal to the number of locks defined, start the request processing based on SCN.
- Each process will replay the requests on to the host by calling a procedure in the service router.
- Once a record is replayed, the thread updates the log table indicating that the replay of this record is complete.

When the server state is 'R' and any new request comes to the bean, it will execute a DAO to check for records in POSS that need to be replayed to the host. If any such record is found, the new request is sent to POSS else the server state is changed from 'R' to 'A'.

When the server state is 'R' the bean also slows down the processing of new requests to ensure there is a switch over back to host.

The following chart will depict a clear picture of request information that pass on to the various stages that are discussed.



7.2.5 ELCM Impact

When the request comes, two ELCM gateways are deployed pointing towards the Host and the POSS. The external interface at ELCM will be switched off and the transactions which are initiated through FLEXCUBE will be serviced.

7.3 Services Supported during Outage

The following Services are supported during Planned Outage:

7.3.1 FCUBSFT Service

The operations that are supported under FCUBSFT services are:

- Cancel FT Contract

- Create FT Contract

7.3.2 FCUBSPC Service

The operations that are supported under FCUBSFT services are:

- Create PC Contract
- Create PC Maint
- Close PC Contract
- Create PC ClientAgg

7.3.3 FCUBSSI Service

The operations that are supported under FCUBSSI services are:

- Create SI Contract
- Close SI Contract

7.3.4 FCUBSTD Service

The operations that are supported under FCUBSTD services are:

- Create TDAcc
- Query TDRedemption

7.3.5 FCUBSCL Service

The FCUBSCL services support the 'Save Payment' operation.

7.3.6 FCUBSLD Service

The operations that are supported under FCUBSLD services are:

- Create LD Contract
- Create LD Payment

7.3.7 FCUBSAcc Service

The operations that are supported under FCUBSAcc services are:

- Create CustAcc
- Check Book New

7.3.8 FCUBS Customer Service

The operations that are supported under FCUBS Customer services are:

- Create Customer
- Modify Customer
- Modify CustAcc
- Query CustAcc

7.3.9 FCUBSIL Service

The operations that are supported under FCUBSIL services are:

- Close ILSweep
- Delete ILSweep
- Query ILSweep
- Modify ILSweep
- Create ILSweep
- Close ILGroup
- Delete ILGroup
- Query ILGroup
- Modify ILGroup
- Create ILGroup

7.3.10 FCUBSLC Service

The operations that are supported under FCUBSLC services are:

- Create LCContract
- Modify LCContract

7.3.11 FCUBSFX Service

The FCUBSFX services support the 'Create FX Contract' operation.

7.3.12 FCUBSCG Service

The FCUBSCG services support the 'Create Stop Payment' operation.

7.3.13 FCUBSSwitch Service

The FCUBSSwitch services support the 'Switch Transaction' operation.

8. Screen Glossary

8.1 Function ID List

The following table lists the function id and the function description of the screens covered as part of this User Manual.

| Function ID | Function Description |
|-------------|---------------------------------------|
| CODSORCE | Upload Source Maintenance |
| CODUPLDM | Upload Source Preferences Maintenance |
| GWDEXFUN | External System Functions - Detailed |
| GWDEXSYS | External System Maintenance |
| GWDINBRW | Incoming Message Browser - Detail |
| GWDNTFEN | Notifications Enroute Maintenance |
| GWDNTFIN | Notifications Installed - Detailed |
| GWDOTBRW | Outgoing Message Browser |
| GWSEXFUN | External System Functions - Summary |
| GWSEXSYS | External System Summary |
| GWSINBRW | Incoming Message Browser |
| GWSNTFIN | Notifications Installed Summary |
| GWSOTBRW | Outgoing Message Browser |
| GWSPBROW | Duplicate Message Browser Summary |
| STDGWINT | Gateway Maintenance |



Gateway Services

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