

Oracle FLEXCUBE Testing Workbench User Guide

Oracle FLEXCUBE Universal Banking

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Oracle FLEXCUBE Testing Workbench User Guide
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1. Preface

1.1 Introduction

This manual deals with the features of Oracle FLEXCUBE Testing Workbench. The maintenances required for its proper functioning and the operations are documented in this manual.

1.2 Audience

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

Role	Function
Back office data entry Clerks	Input functions for maintenance related to the interface
Back office Managers/ Officers	Authorization functions

1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

1.4 Abbreviations

Abbreviation	Description
System	Unless specified, it shall always refer to Oracle FLEXCUBE
OFTW	Oracle FLEXCUBE Testing Workbench

1.5 Organization

This manual is organized into the following chapters:

Chapter	Description
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	Oracle FLEXCUBE Testing Workbench explains the maintenances required for the functioning of Oracle FLEXCUBE Testing Workbench and the operations supported by this.





1.6 Related Documents

You may refer the following manuals for more information

- Procedures user guide

1.7 Glossary of Icons

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

Icons	Function
	Exit
	Add row
	Delete row
	Option List

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

2. Oracle FLEXCUBE Testing Workbench

Oracle FLEXCUBE Testing Workbench helps you create a replica of the production database on a separate environment. You can perform the following actions from OFTW:

- Subset Creation - Create miniature test environment
- Recording - Record user activity
- Replay - Replay the recorded user activity in target test environment
- Result verification - Verify the replayed data with the data from recorded environment

This chapter contains the following sections:

- [Section 2.1, "Creating Subsets"](#)
- [Section 2.2, "Record User Actions"](#)
- [Section 2.3, "Replaying Recorded Actions"](#)

2.1 Creating Subsets

You need to create a replica of the source/UAT database. Using OFTW, you can create a subset of the source data. The customer specific confidential data can be masked to ensure confidentiality.

This section contains the following topics:

- [Section 2.1.1, "Maintaining Environment Codes"](#)
- [Section 2.1.2, "Maintaining Test Beds"](#)
- [Section 2.1.3, "Maintaining OFTW Type"](#)
- [Section 2.1.4, "Export/Import of Data"](#)

2.1.1 Maintaining Environment Codes

The environment component contains the parameters to extract data from the source database with the type of export method that the OFTW uses.

You can maintain the environment codes using 'Environment Code Maintenance' screen. To invoke the screen, type 'STDOFENV' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

Specify the following details:

Environment Code

Specify the name of the environment code.

Description

Enter a description of the environment code.

Export Method

Specify the method of exporting the data to test bed schema. Select one of the following options:

- DATA PUMP (Recommended)
- OTHERS

Usage Type

Select the usage type.

- Same Version-Patch: Use this option when the data structures remain the same between test bed and replay environment. This is typically used in regress testing the patch set releases, emergency code fixes etc.
- Version Upgrade: Use this if the Oracle FLEXCUBE Universal Banking version has been upgraded and there is a need for testing the new version software.
- Load/Stress Testing: You can use the record and replay data for testing a huge set of similar transaction on the system.

Input Date

The system updates the current application date automatically on saving the details. This is used for generating the dump files, PAR files and shell scripts with this date.

Environment Migration

Select the environment migration type.

- **AS IS:** The 'As is' environment migration is used if the entire source data has to be migrated as it is to the other schema. This is suitable for recording a day(s) transactions in source environment and replaying it in a disaster recovery schema or testing version upgrades. Using this option would force the bank to use the same set of hardware and software in the test bed environments. This is not suitable for subset creation.
- **Percentile:** 'Percentile' environment migration is used if only a certain percentage of the source data has to be migrated to the other schema. It includes only the specified branches and modules and the customers under those module and branch.
- **Selection:** 'Selection' environment migration is used if only a particular or a set of particular source data has to be migrated to the other schema. It includes only the specified branches and modules and the customers under those module and branch.
- **Percentile & Selection:** 'Percentile & Selection' environment migration is used if a particular or a set of particular data and percentage of the source data has to be migrated to the other schema. It includes only the specified branches, modules and customers under that module and branch.

Other Branch Customer Type

Select the customer type of the other branch.

- **Current Branch:** Select this option if the export should contain the customers in the selected branches only.
- **Include Parent Branch:** Select this option in the customer type is used for export of the customers in the selected branches and parent/regional branches of the selected branches.
- **All Branches:** Select this option to export the customers in the all the branches, irrespective of the selected branches. Effectively all branches static data along with maintenances except for its transactions will get exported. If the option 'Transactions Required' is selected, then all transactions of all the customers will be exported.

Database Details

You need to specify the following details under database details.

Schema Name

Specify the schema name for the source and test bed environments.

Connection String

Specify the schema connection string for the source and test bed environments.

IP Address

Specify the IP address for the source and test bed environments.

Table Space Name

Specify the table space name for the source and test bed environments.

JNDI name

Specify the JNDI name for the source and test bed environments.

Dump Directory

Specify the directory name/path for the source and test bed environments in which the dump file export/import scripts will be generated.

Reports Path

Specify the directory name/path for the source and test bed environments in which the reports will be generated during record/replay.

DB Link for OFTW

Specify the DB link for the source and test bed environments pointed to the OFTW schema.

There are three schema in OFTW, namely, Source Database, Recording and Replay. For all these, you need to provide the database details such as database name, JNDI name, IP address, Dump directory path, report path and the scripts path.

Note

For recording and replay schema, you can provide the details in the tabs 'Record Credentials' and 'Replay Credentials' respectively.

2.1.1.1 Record Credentials

Specify the database details for the record credentials.

Refer to the above section for details.

2.1.1.2 Repay Credentials

Specify the database details for repay credentials.

Refer to the above section for details.

2.1.2 Maintaining Test Beds

You need to create the test bed, which decides the branches, number of customers and transactions that will be included in the export file. You can maintain test beds using 'Test Bed Maintenance' screen. To invoke this screen, type 'STDOFEXP' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

The screenshot shows the 'Test Bed Maintenance' application window. It features a 'Save' button at the top left. The main area contains several input fields and dropdown menus: 'Environment Code' with an 'Auto Populate' button, 'Usage Type' dropdown, 'Include Transactions' dropdown (set to 'None'), 'Upload File Name' with a 'Process Upload' button, 'Environment Migration' dropdown, and 'Mask Export Data' checkbox. Below these are 'Head Office' (text '000') and 'Head Office Name' (text 'Bank Futura'). A tabbed interface shows 'Branches', 'Modules', and 'Customers' tabs. The 'Branches' tab is active, showing a table with columns 'Branch' and 'Branch N'. The 'Customer Selection' tab is also visible, showing a table with columns 'Customer' and 'Name'. At the bottom, there are fields for 'Maker ID', 'Maker Date Stamp', 'Status' (Active/Unauthorized), 'Checker Id', 'Checker Date Stamp', 'Authorization Status', and a 'Cancel' button.

Specify the following details:

Environment Code

Select the environment code from the option list. Once you have selected the environment code, click 'Auto Populate' button to default the other details.

Usage Type

Based on the environment code selected, the system displays the usage type. You cannot modify this.

Environment Migration

Based on the environment code selected, the system displays the environment migration. You cannot modify this.

Other Branch Customer Type

Based on the environment code selected, the system displays the other branch customer type. You cannot modify this.

Include Transaction

Specify whether to include the transaction data while exporting the subset. You can select one of the following options:

- None
- Active Contracts
- Closed Contracts

Mask Export Data

Check this box to mask the customer sensitive data while exporting. This is a manual option and the DBA needs to exercise this. If OFTW is being used as a standalone schema, this step is also automated.

Upload File Name

If the environment migration type is 'Percentile and Selection', then you need to enter the file name for upload. After specifying the file name, click 'Process Upload' button to initiate the upload.

In order to use the upload option, you need to place the upload text file (<FileName>.TXT) in the directory path of the source schema.

Once the upload has been processed, the system generates a log file with the comments whether the customer details are uploaded or not and the reasons.

Head Office

The system displays the respective head office branch code.

Head Office Name

The system displays the head office branch name.

The data of this branch is exported by default. If you have selected 'Include Transaction', then head office transaction data is also exported.

Note

You need to set a validation/technical change to include head office in the exporting the data.

2.1.2.1 Branches Tab

You need to specify the details in the 'Branches' tab only if the migration type is 'Percentile' or 'Selection'.

Branch

Specify the branch code based on the percentage or selection.

Branch Name

The system displays the name of the branch.

Customer

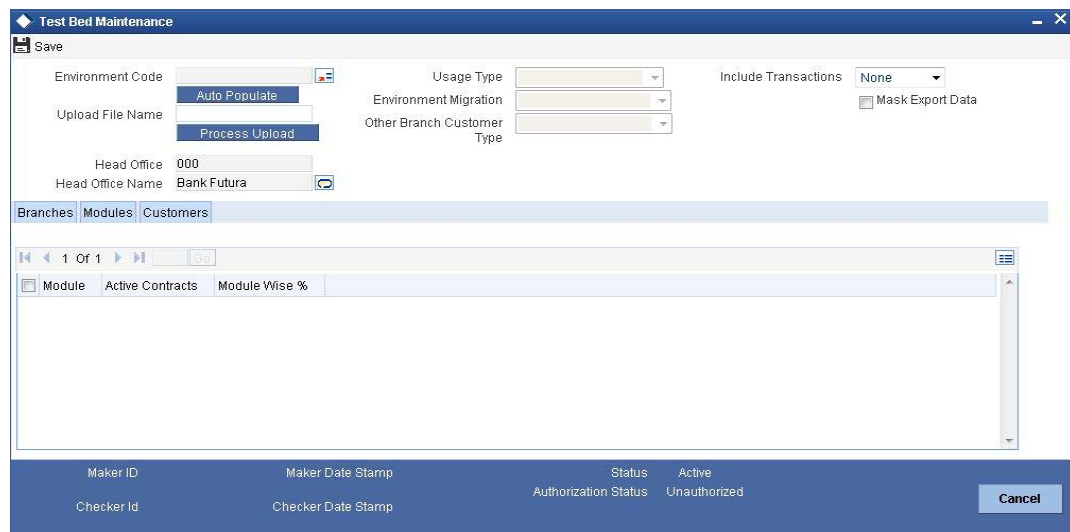
Specify the customer numbers under the selected branch. This is applicable only if the migration type is 'Selection'.

Name

The system displays the name of the customer.

2.1.2.2 Modules Tab

You can view the module details if the migration type is 'Percentile' or 'Selection', based on the selected branch.



The screenshot shows the 'Test Bed Maintenance' application window. The 'Save' button is visible at the top left. The form contains several fields: 'Environment Code' with an 'Auto Populate' button, 'Usage Type' dropdown, 'Include Transactions' dropdown (set to 'None'), 'Upload File Name' with a 'Process Upload' button, 'Environment Migration' dropdown, 'Mask Export Data' checkbox, 'Head Office' (000), 'Head Office Name' (Bank Futura), and 'Other Branch Customer Type' dropdown. Below the form is a tabbed interface with 'Branches', 'Modules', and 'Customers' tabs. The 'Modules' tab is active, showing a table with columns: 'Module', 'Active Contracts', and 'Module Wise %'. The table is currently empty. At the bottom, there are fields for 'Maker ID', 'Maker Date Stamp', 'Status' (Active/Unauthorized), 'Checker Id', 'Checker Date Stamp', 'Authorization Status', and a 'Cancel' button.

Specify the following details.

Module

Specify the respective module code.

Active Contracts

The system displays the number of active contracts in that particular branch.

Module Wise %

The system displays the percentage of a particular module in the overall percentage selected.

2.1.2.3 Customers Tab

You can indicate the customer details for a selected branch in 'Customers' tab. This is applicable only if the migration type is 'Selection'.

The screenshot shows the 'Test Bed Maintenance' application window. The 'Customers' tab is active, displaying a table with the following columns: Customer Category, Total Customers, Active Contracts, and Customer % for Export. The table is currently empty. The interface includes various input fields and buttons for configuration and data management.

Specify the following details:

Customer Category

Specify the customer category. The option list displays all valid categories maintained in the system. Select the appropriate one.

Total Customers

The system displays the number of customers under the respective category based on the selection of branch or module.

Active Contracts

The system displays the number of active contracts under the respective customer category based on the selection of branch or module.

Customer % for Export

If you select this, the system allows migration of the specified percentage of customer data as part of subset creation.

2.1.3 Maintaining OFTW Type

OFTW type decides the parameters for the tables in exporting the data. This data is factory shipped for all the tables. You also have a provision to add new customised tables as part of the export.

You can maintain OFTW types using 'OFTW Type Maintenance' screen. To invoke this screen, type 'STDOFTYP' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

Specify the following details:

Object Name

Specify the table name.

Object Origin

Specify the table release type. You can select one of the following origins:

- KERNEL (data cannot be created or modified through the front end for these types of object)
- CUSTOM

Type

Specify the type of table. Select one of the following options:

- IGNORE: Export will ignore these types of data
- COMMON: Entire table to be exported
- BRANCH: Branch related table
- CUSTOMER: Customer related table
- CONTRACT: Contract related table
- DEPENDENT_CUSTOMER: Table linked through its parent of customer type
- DEPENDENT_TRANSACTION: Table linked through its parent of transaction type

Module

Specify the module code of the table.

Branch Clause

Specify the branch column name of a branch type table.

Transaction Clause

Specify the transaction column name of a transaction type table.

Customer Clause

Specify the customer column name of a customer type table.

Dependent Table

Specify the parent table name in case it is linked through its parent.

Dependent Table Where Clause

Specify the column name used to link the parent and its parent.

Dependent Where Clause

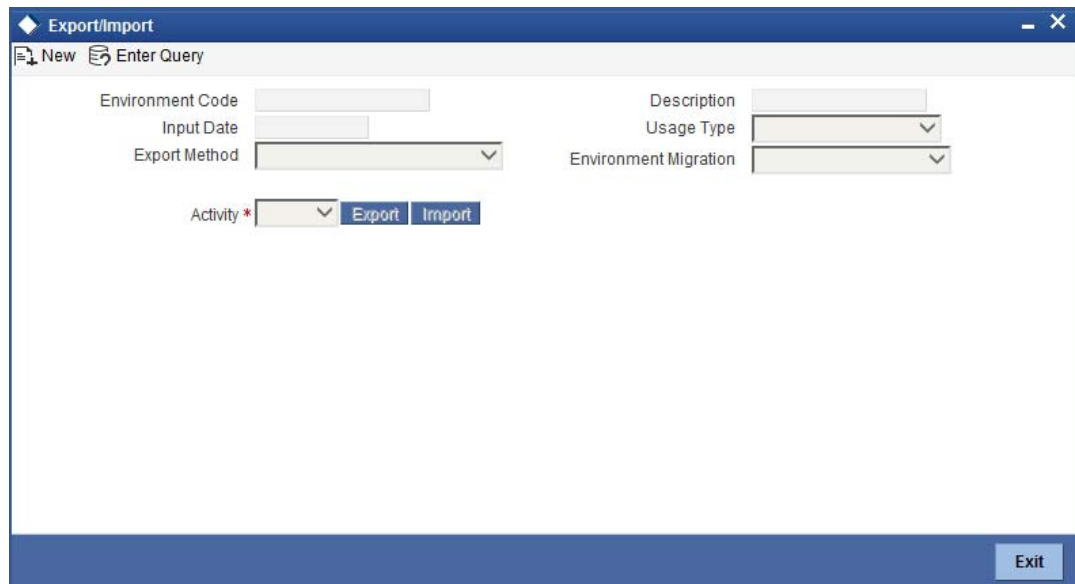
Specify the column name of the child table used to link it with its parent.

Dependent Table Select Column

Specify the column name of the parent table.

2.1.4 Export/Import of Data

You can trigger the export or import process for an environment as on a given date. For this operation, the export operation should be 'DATAPUMP'. To invoke 'Export/Import' screen, type 'STDOFSCR' in the field at the top right corner of the application toolbar and click the adjoining arrow button.



Specify the following details:

Environment Code

Specify the environment code for which you need to initiate the export process.

Description

The system displays the description of the environment.

Input Date

Specify the date as on which the export should process.

Usage Type

Select the usage type from the drop-down list.

Export Method

Select the export method from the drop-down list.

Environment Migration

Select the environment migration from the drop-down list.

Activity

Select the activity, that is export or import, from the drop-down list.

Once you have specified the details, click 'Export' button to begin the export process.

2.1.4.1 Scheduling Exports

You can schedule the export process for a specific environment code to begin during MARK TI stage of end of day operations. This is applicable if the export option is 'DATAPUMP'. To invoke 'Schedule Export Maintenance' screen, type 'STDOFSCH' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

The screenshot shows a software window titled "Schedule Export Maintenance". The window has a menu bar with "New" and "Enter Query" options. The main area contains several input fields: "Environment Code *", "Export as of *", "Description", and "Export Status" (a dropdown menu currently showing "Not Started"). At the bottom, there are fields for "Maker", "Checker", "Mod No", "Date Time:", "Record Status", and "Authorization Status". An "Exit" button is located in the bottom right corner.

Specify the following details:

Environment Code

Specify the environment code for which the export schedule is being maintained.

Description

The system displays the description of the environment code.

Export as of

Specify the date on which the export should be triggered.

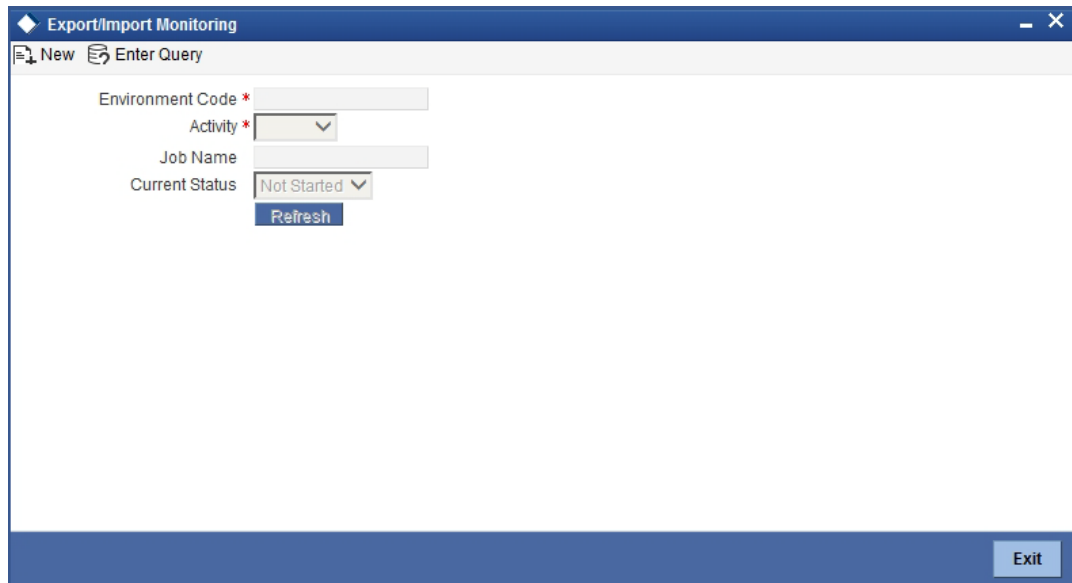
Export Status

The system displays the status of the export. It can be one of the following:

- Not started
- Processed

2.1.4.2 Monitoring Export/Import Process

You can monitor the export/import process for a particular environment code using 'Export\Import Monitor' screen. To invoke this screen, type 'STDOFMTR' in the field at the top right corner of the application toolbar and click the adjoining arrow button.



Specify the following details:

Environment Code

Specify the environment code.

Activity

Specify the activity name.

Job Name

The system displays the job name for the selected environment code and activity.

Current Status

The system displays the current status of the job. This can be one of the following:

- Not Started
- Running
- Halted
- Completed

You can anytime click 'Refresh' button to know the realtime status of the job.

2.2 Record User Actions

This section contains the following topics:

- [Section 2.2.1, "Recording User Actions"](#)
- [Section 2.2.2, "Monitoring Recording"](#)
- [Section 2.2.3, "Recording Reports"](#)

2.2.1 Recording User Actions

You can record the transactions based on the selective or all user sessions, external sources and function IDs using 'Recording' screen. To invoke this screen, type 'STDOFARC' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

The screenshot shows the 'Recording' window with the following details:

- Recording Id *
- Description *
- Environment Code
- All User Session
- All External Source
- All Function Ids
- Recording Off
- User Sessions | External Sources | Function Ids
- Excluding users session
- 1 Of 1
- Go
- Table with columns: User, Name, Remarks
- Cancel

Specify the following details:

Recording ID

Specify a unique ID for the recording.

Description

Enter a brief description of the recording.

Environment Code

Specify the environment code for which the session is being recorded.

All User Session

Check this box to record all user sessions.

All External Source

Check this box to record the session for all external sources.

All Function IDs

Check this box to record the session for all function IDs.

User Sessions

Specify the users whose sessions should be excluded from the recording.

External Sources

Specify the external sources which should be excluded from recording.

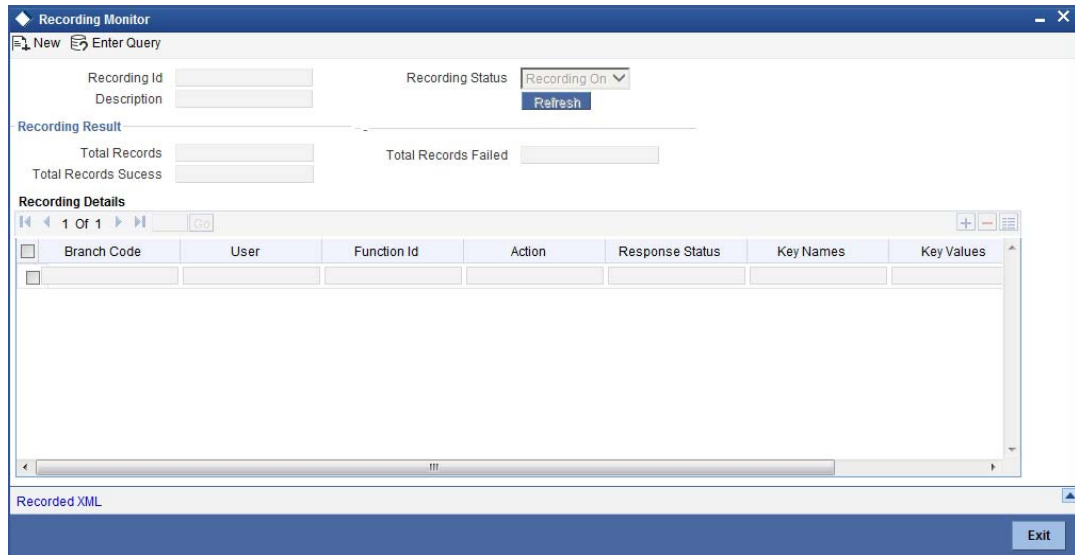
Function IDs

Specify the function IDs which should be excluded from the recording.

Click 'Recording On' button to begin the recording of sessions. You can turn off the recording by clicking 'Recording Off' button.

2.2.2 Monitoring Recording

You can monitor the status of user session recording using 'Recording Monitor' screen. To invoke this screen, type 'STDOFARM' in the field at the top right corner of the application toolbar and click the adjoining arrow button.



You view the following details based on the recording ID:

Recording ID

Specify the recording ID whose details you need to monitor.

Description

The system displays the description of the recording ID.

Recording Status

The system displays the status of the recording.

Recording Results

You can view the following details in the result section:

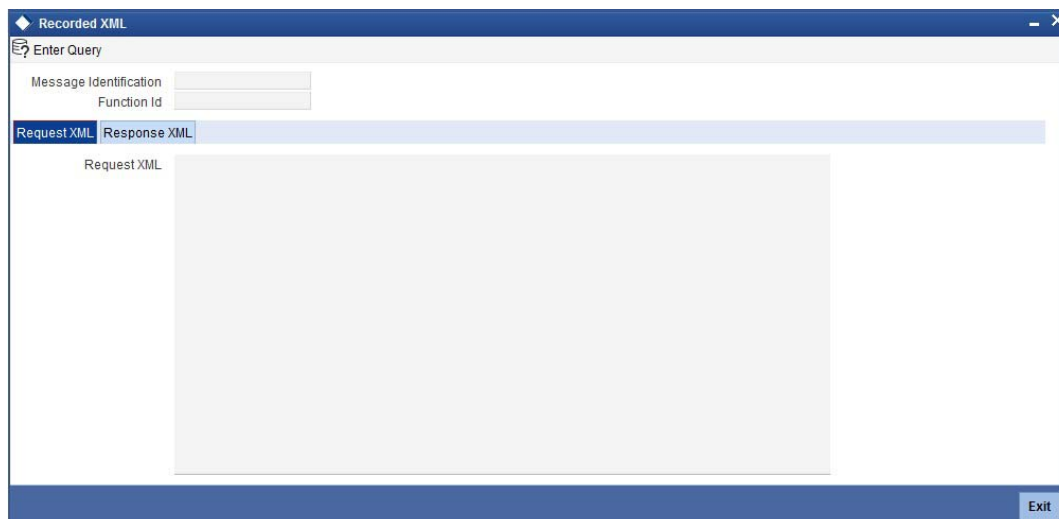
- Total number of records
- Total number of records that failed
- Total number of records that succeeded

Recording Details

You can view the following details in this section:

- Branch code
- User ID
- Function ID
- Action
- Response status
- Key names
- Key values
- Error code

Click 'Record XML' button to view the record xml details.



In this screen, you can view the request XML and response XML details, based on the message identification.

2.2.3 **Recording Reports**

The system generates the following reports before and after the recording session.

- Accounts Report
- Balance Sheet Report - Branch Wise
- Combined balance Sheet Report
- Customer Report
- GL Report - Branch Wise
- Trail balance Report - Branch Wise

You can use these reports to view and compare the status of the transactions before and after the recording.

2.3 **Replaying Recorded Actions**

You can replay the recorded user actions for verification. To enable replay, you need to first maintain the run charts. The replay takes place based on the logical grouping of messages in the run chart maintenance.

This section contains the following topics:

- [Section 2.3.1, "Maintaining Run Charts"](#)
- [Section 2.3.2, "Starting Replay of Recorded Actions"](#)
- [Section 2.3.3, "Viewing Replay Summary"](#)
- [Section 2.3.4, "Monitoring Replay"](#)
- [Section 2.3.5, "Replay Reports"](#)

2.3.1 **Maintaining Run Charts**

A run chart decides the recording messages that should form a part of a replay. You can maintain run charts using 'Run Chart Maintenance' screen. To invoke this screen, type

'STDOFARN' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

Message Id	Branch Code	User	Function Id	Recording Result	PK Values	Error Code

Specify the following details:

Run Chart Reference Number

The system generates and displays the reference number. You can use this later to identify the run chart maintenance.

Description

Enter a brief description of the run chart.

Recording ID

Specify the recording ID which you need to replay.

Recording Description

The system displays the description of the recording.

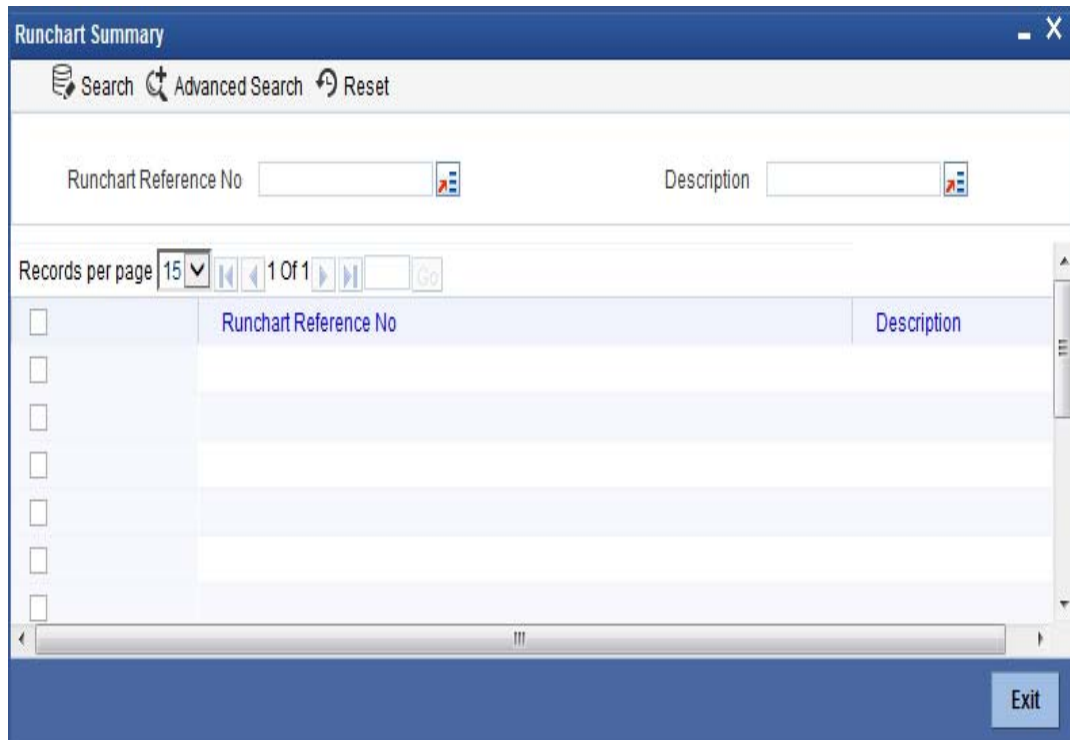
Once you have specified the above details, click 'Populate' button. The system displays the following details of each message in the recording.

- Message ID
- Branch code
- User
- Function ID
- Recording result
- PK values
- Error code

Select the messages that you wish to include in the run chart. When you replay this run chart, the system will include only the selected messages.

2.3.1.1 Viewing Run Chart Summary

You can view a summary of the run charts maintained in the system using 'Run Chart Summary' screen. To invoke this screen, type 'STSOFARN' in the field at the top right corner of the application toolbar and click the adjoining arrow button.



You can search for the run charts based on the following parameters:

- Run chart reference number
- Description

Once you have set the search parameters, click 'Search' button. The system displays the following details of the matching run charts.

- Run chart reference number
- Description

2.3.2 Starting Replay of Recorded Actions

You can start the replay of a recording based on a run chart using 'Replay' screen. To invoke this screen, type 'STDOFARP' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

The screenshot shows the 'Replay' application window. It features a title bar with the text 'Replay' and standard window controls (minimize, maximize, close). Below the title bar is a toolbar with 'New' and 'Enter Query' buttons. The main area contains several input fields and controls: 'Replay Reference No *' (text box), 'Runchart Reference No *' (text box), 'Action On Overrides' (dropdown menu showing 'Error'), 'Halt On Error' (checkbox), 'LBL_SKIPERROR' (checkbox), 'Description' (text box), 'Replay Option' (radio buttons for 'Play From Paused' and 'Restart Playing', with 'Restart Playing' selected), and 'LBL_XML_PATH' (text box). At the bottom of the main area are two buttons: 'Start Replaying' and 'Stop Replaying'. An 'Exit' button is located in the bottom right corner of the window.

Specify the following details:

Replay Reference Number

The system generates and displays the reference number. You can use this later to identify the replay.

Run Chart Reference Number

Specify the run chart reference number for which you need to start the replay. The system will replay the recorded messages selected in the run chart number.

Replay Option

Specify whether you need to continue the replay from the last point or restart it.

- Play from paused - If you select this, the system will resume the replay from the point where it was stopped, when you click the 'Start Replaying' button.
- Restart Playing - If you select this, the system restart the replay, irrespective of whether it was stopped in the middle of a session, when you click the 'Start Replaying' button.

Action Overrides

Specify the action to be taken when an override occurs.

- Ignore - Select this to ignore the override and proceed with replay
- Error - Select this to stop the replay in case of override

Halt on Error

Check this box to halt the replay in case of an error.

Once you have specified the above details, click 'Start Replaying' button to begin the replay of the recording. You can stop the replay anytime by clicking 'Stop Replaying' button.

2.3.3 Viewing Replay Summary

You can view a summary of the replays using 'Replay Summary' screen. To invoke this screen, type 'STSOFARP' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

The screenshot shows the 'Replay Summary' application window. At the top, there is a search bar with 'Search', 'Advanced Search', and 'Reset' buttons. Below the search bar, there are several input fields: 'Runchart Reference No', 'Replay Reference No', 'Action On Overrides', 'Replay Option', and a 'Halt On Error' checkbox. A pagination control shows 'Records per page 15' and '1 Of 1'. The main area is a table with columns: Runchart Reference No, Replay Reference No, Replay Status, Action On Overrides, Halt On Error, and Replay Option. The table is currently empty. An 'Exit' button is located at the bottom right of the window.

You can search for the screens based on one or more of the following parameters:

- Run chart reference number
- Replay reference number
- Action on overrides
- Halt on error
- Replay option

Once you have set the search parameters, click 'Search' button. The system displays the following details of the replays that match the search criteria.

- Run chart reference number
- Replay reference number
- Action on overrides
- Halt on error
- Replay option
- Status

2.3.4 Monitoring Replay

You can monitor the status of replays using 'Replay Monitor' screen. To invoke this screen, type 'STDOFAMN' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

The screenshot shows the 'Replay Monitoring' application window. It features a toolbar with 'New' and 'Enter Query' buttons. The main interface includes input fields for 'Replay Reference No' and 'Runchart Reference No', dropdown menus for 'Status Movement' (set to 'VIP'), 'Action On Overrides' (set to 'Ignore'), and 'Halt On Error' (set to 'On'). A 'Refresh' button is positioned to the right of the 'Halt On Error' dropdown. Below these fields is a 'Replay Status' section with five input fields: 'Total Records', 'Total Records Processed', 'Total Records In Progress', 'Total Records Sucess', and 'Total Records Failed'. Underneath is a 'Replay Details' section with a table. The table has a header row with columns: 'Message Identification', 'Recorded Seq No', 'Replayed Sequence No', 'Function Id', and 'Replay Result'. Below the header is one data row. At the bottom of the window is a 'Replay XML' section and an 'Exit' button.

You can view the following details based on the for the replay:

Replay Reference Number

Specify the reference number of the replay whose details you need to monitor.

Run Chart Reference Number

The system displays the reference number.

Status

The system displays the status of the replay that you are monitoring.

Action on Overrides

The system displays the action set to be performed by the system in case of an override during replay.

Halt on Error

The system displays whether the replays will halt on error or not.

Replay Status

You can view the following details in this section:

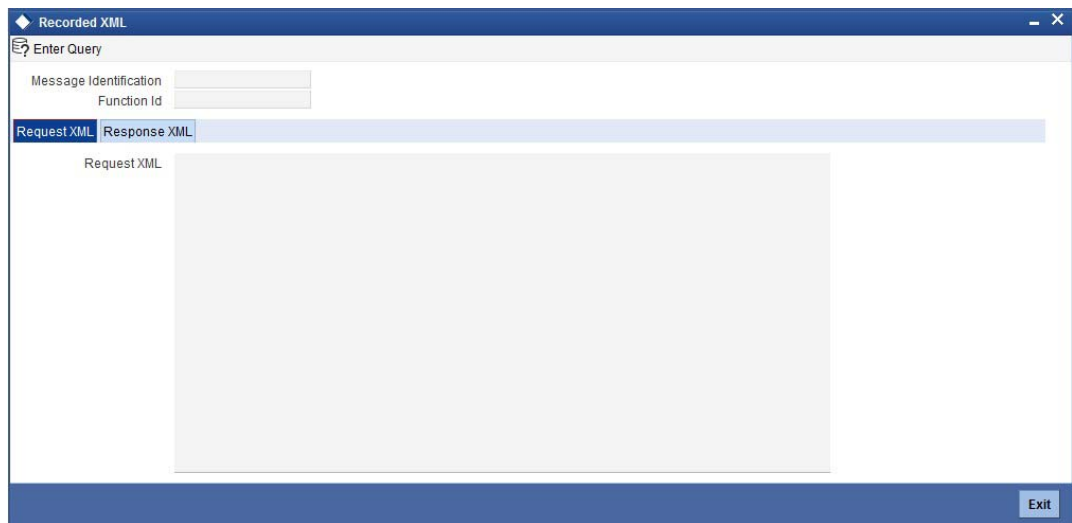
- Total records
- Total records failed
- Total records succeeded
- Total records processed
- Total records in progress

Replay Details

You can view the following details:

- Message ID
- Replayed sequence number
- Function ID
- Replay result
- Error code
- PK values
- User
- Branch code

Click 'Record XML' button to view the xml details.



In this screen, you can view the request XML and response XML details, based on the message identification.

2.3.5 Replay Reports

The system generates the following reports before and after the replay session.

- Accounts Report
- Balance Sheet Report - Branch Wise
- Combined balance Sheet Report
- Customer Report
- GL Report - Branch Wise
- Trail balance Report - Branch Wise

You can use these reports to view and compare the status of the transactions before and after the replay.

The report that is generated after the replay also shows the differences before and after the replay of the recorded transactions.

3. Function ID Glossary

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STDOFAMN2-19
STDOFARC2-12
STDOFARM2-13
STDOFARN2-15
STDOFARP2-17
STDOFENV2-2

STDOFEXP 2-4
STDOFMTR 2-11
STDOFSCH 2-10
STDOFSCR 2-9
STDOFTYP 2-8
STSOFARN 2-16
STSOFARP 2-18