

Generic Interface User Guide

Oracle FLEXCUBE Universal Banking

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1. Preface

1.1 Introduction

This User Manual is prepared to familiarize you with the interface between Oracle FLEXCUBE and external systems. The manual gives you an overview of the usage of the system, and the maintenances and process of Generic Interfaces required for its smooth functioning.

1.2 Audience

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

Role	Function
Back office clerk	Input functions for contracts
Back office managers/officers	Authorization functions
End of day operators	Processing during end of day/ beginning of day
Financial Controller / Product Managers	Generation of reports

1.3 Documentation Accessibility

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

1.4 Organization

This manual is organized into the following chapters:





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	Generic Interface describe how to define and maintain the features supported by Oracle FLEXCUBE to streamline the exchange of data between external systems.
Chapter 3	<i>Reports</i> provides a list of reports that can be generated in this module and also explains their contents.
Chapter 4	<i>Function ID Glossary</i> has alphabetical listing of Function/Screen ID's used in the module with page references for quick navigation.

1.5 Abbreviations Used

UI	User Interface
GW	Gateway
DB	Database
SMS	Security Services
ID	Identification Number
SDE	System Defined Element
IB	Inter Branch
GI	Generic Interfaces
AUDF	ASCII User Defined Function
EOD	End Of Day
Mark EOTI	Mark End of transaction Input
Mark TI	Mark transaction Input
CRC	Cyclic Redundancy Check
OS	Operating System

1.6 Glossary of Icons

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

Icons	Function
	Exit
	Add row
	Delete row
	Option List

1.7 Related Documents

- Generic Interface
- Core Entities
- The Procedures User Manual
- The Products User Manual

2. Generic Interface

2.1 Introduction

Oracle FLEXCUBE interfaces with other systems installed at your bank to handle Incoming/Outgoing data using batch mechanism (Flat files). This chapter discusses the features that are supported by Oracle FLEXCUBE to streamline the exchange of data between the system and external systems.

2.2 Maintaining GI Parameter

You can set the parameters for the framework of Generic Interface processing in the following screen 'Parameters' screen invoked from the Application Browser. You can invoke this screen by typing 'GIDPARAM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Parameters' window with a 'Holiday Treatment' section. It includes a 'Next Run Date' section with radio buttons for 'Previous Working Day' and 'Next Working Day', and a 'Purging Days' text input field. Below this are two sections: 'Incoming' and 'Outgoing'. The 'Incoming' section has 'Uploaded Record Status' (dropdown set to 'Authorized'), 'Bad File Path' (text input), and 'Log File path' (text input). The 'Outgoing' section has 'File Writing Process' (dropdown set to 'Oracle') and 'Archival Required' (checkbox). At the bottom, there are fields for 'Input By', 'Authorized By', and 'Modification Number', each with a 'Date Time' field. There are also checkboxes for 'Authorized' and 'Open'.

You can maintain the following parameters for generic interface here.

Holiday Treatment

You can specify the parameters for interface processing if the schedule date falls on a holiday.

Holiday Treatment

Check this box to indicate your preference for interface processing on a holiday.

Next Run Date

Specify how the system should process if the schedule date falls on a holiday. You can select the options as either move the interface processing to previous working date or next working date if the interface processing day falls on a holiday.

Note

The default holiday treatment is movement to 'next working date'.

Purging Days

Specify the purging days if you want to maintain any days to be purged while processing interface.

Incoming

You can specify the parameters for interface processing for the incoming files.

Uploaded Record Status

Select the input status of the transaction record after upload as:

- Authorized
- Unauthorized

Note

By default 'Authorized' option is selected.

Bad File Path

Specify the path where the external tables should write the bad records, while reading from the Incoming file.

Log file Path

Specify the path where the external tables should write the Log file, while reading from the Incoming file.

Outgoing

You can specify the parameters for interface processing for the outgoing files.

Archival Required

Check this box to specify if the upload table data and file log data should be archived at the time of EOD or before deleting the same.

File writing process

Select the tool to write the data into output file from the following options:

- Oracle - This component uses ORACLE UTIL packages to write the data into output file.
- Java - This component uses java libraries ages to write the data into output file

Note

By default 'Oracle' option is selected.

You need to note the following details while selecting the tool for file writing:

- This feature is applicable only for the outgoing process
- Low volume sites are recommended to use Oracle tool only in case of high volume Java tool is recommended.
- If Java tool is selected then the necessary Java software/component should be installed in the database server and jvm is enabled in database.

2.3 Defining GI Object

You can prepare complex queries to use them in the outgoing interface definition for data extraction. 'Object Definition' screen can be used to create queries which can be invoked from the Application Browser. You can invoke this screen by typing 'GIDOBDEF' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Object Definition' window with the following fields and sections:

- Customer Name ***: Text input field.
- Description**: Text input field.
- Type**: Radio buttons for **Static** and **Dynamic**.
- Static Query**: Text input field with a help icon.
- Object Mapping**: Table with columns **Object Name *** and **Alias Name**.
- Object Field Mapping**: Table with columns **Field Name ***, **Alias Name**, **Data Type**, and **Data Length**.
- Where**, **Order By**, **Group By**, **Having**, and **Query**: Text input fields with help icons.
- View SQL**: Button.
- Status Bar**: **Input By** (Date Time), **Authorized By** (Date Time), **Modification Number**, **Authorized**, **Open**.

You can maintain the objective definition for generic interface here.

Name

Specify the unique interface object name which is created here.

Description

Specify a description for the object name.

Type

Select the required object definition type from the following options:

- **Static definition** – Select this option if you have a predefined query or you would write query of the object.

Note

Static field gets enabled for you to specify the query when you select the type of definition as 'static'.

- Dynamic definition – Select this option if you want to prepare or create the desired query using the dynamic maintenance.

Static

Specify the predefined query for the static definition here.

Note

This field gets enabled only if you select the type of definition as 'static'.

Object Mapping

You can map the database object details here.

Object Name

Select the database object name that is used for the dynamic query.

Note

Database object would be either table or Synonym or view.

Alias Name

The alias name for the database object gets displayed which is same as the object name by default. However, you can edit it.

Field Mapping

You can map the fields of the database object selected here.

Field Name

Select the column which can be used from the database object.

Alias

The alias of the column name in the select query that is generated which by default the column name itself. However, you can edit it.

Data Type

The data type of the field gets displayed here.

Data Length

The data length of the field gets displayed here.

Where Clause

Specify the where clause for the resultant dynamic query here. You can define the join conditions of multiple tables along with the filter condition of the query.

Group By

Specify the group by clause for the resultant dynamic query here.

Order By

Specify the order by clause for the resultant dynamic query here.

Having Clause

Specify the having clause for the resultant dynamic query here.

Query

Specify the indexes which can be used for the query. This index gets used for the query.

2.3.1 Viewing Summary Details of Object

You can view the details of objectives maintained in the system through 'Object Summary' screen. You can invoke this screen by typing 'GISOBDEF' 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 'Summary'. At the top, there are 'Advanced Search' and 'Reset' buttons. Below this, there are several search filters: 'Authorization Status' (dropdown), 'Record Status' (dropdown), 'Customer Name' (text input), 'Description' (text input), 'Order By' (text input), 'Group By' (text input), and 'Having' (text input). Each text input field has a small icon to its right. Below the filters, there is a pagination bar showing 'Records per page 15', 'First', 'Previous', '1 Of 1', 'Next', 'Last', and a 'Go' button. Below the pagination bar is a table with the following columns: 'Authorization Status', 'Record Status', 'Customer Name', and 'Description'. The table is currently empty. At the bottom of the window, there are buttons for 'Authoriza', 'Record St', and 'Exit'.

You can click 'Search' button to view all the object definition records of your bank. However, you can filter your search based on any of the following criteria:

Authorization Status

Select the authorization status of the object defined from the dropdown list. The options are:

- Authorized
- Unauthorized

Name

Select the name of the object maintained from the option list.

Order by Clause

Select the order by clause maintained for the object from the option list

Having Clause

Select the having clause maintained for the object from the option list

Record Status

Select the record status of the object from the drop-down list. The options are:

- C – Closed record
- O – Open record

Description

Select the description maintained for the object from the option list

Group by Clause

Select the group by clause maintained for the object from the option list

Where Clause

Select the where clause maintained for the object from the option list

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Authorization Status
- Record Status
- Name
- Description

2.3.1.1 Search Functionalities

The search functions available are:

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

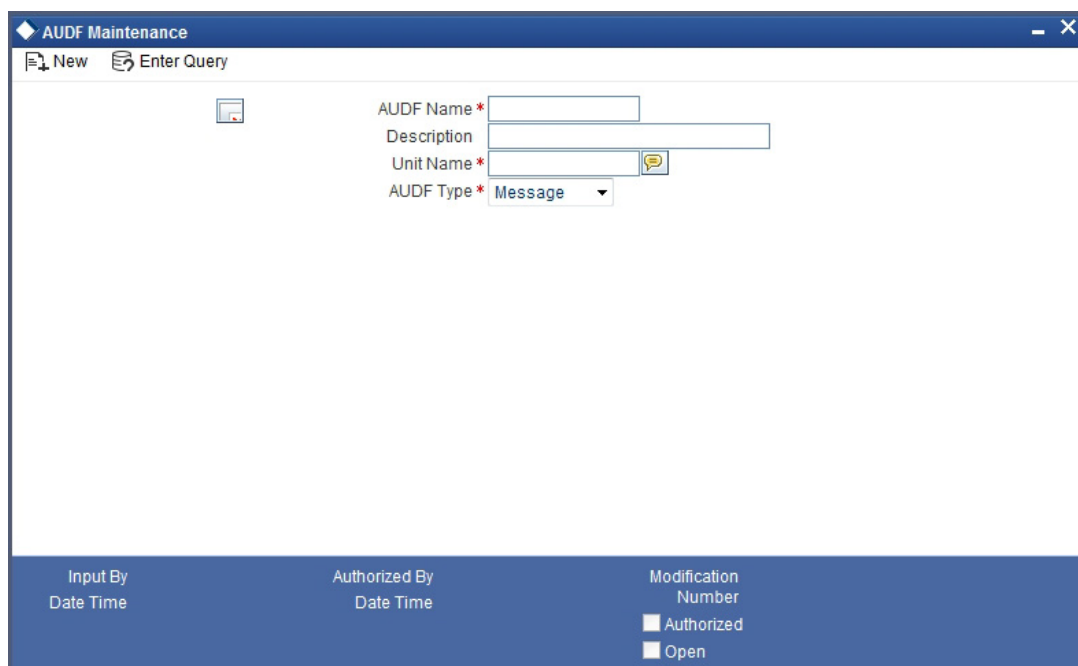
Reset - Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

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.

2.3.2 Maintaining AUDF (ASCII User Defined Function) Details

You can maintain the AUDF (ASCII User Define Function) details in the 'AUDF Maintenance' screen. You can invoke this screen by typing 'GIDAUDFM' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



The screenshot shows the 'AUDF Maintenance' application window. The title bar includes a diamond icon and the text 'AUDF Maintenance'. Below the title bar is a menu bar with 'New' and 'Enter Query' options. The main area contains four input fields: 'AUDF Name *', 'Description', 'Unit Name *', and 'AUDF Type *'. The 'AUDF Type *' field is a drop-down menu currently showing 'Message'. A small icon is visible to the left of the input fields. At the bottom of the window is a blue status bar with the following text: 'Input By Date Time', 'Authorized By Date Time', 'Modification Number', and two checkboxes labeled 'Authorized' and 'Open'.

Specify the following AUDF details in this screen.

AUDF Name

Specify the name of the AUDF here.

Description

Specify a description for the AUDF here.

Unit Name

Specify the invoked function name here.

AUDF Type

Select the AUDF types from the drop-down list. The following options are available:

- Message
- Component
- Record
- Field

2.3.3 Viewing AUDF Summary Details

You can view AUDF details maintained in the system using 'AUDF Summary' screen. You can invoke this screen by typing 'GISAUDFM' 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 'Summary'. At the top, there are 'Advanced Search' and 'Reset' buttons. Below these are four search filters: 'Authorization Status' (a dropdown menu), 'Record Status' (a dropdown menu), 'AUDF Name' (a text input field with a search icon), and 'Description' (a text input field with a search icon). Below the filters is a pagination bar with 'Records per page' set to 15, and buttons for 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go'. Below the pagination bar is a table with four columns: 'Authorization Status', 'Record Status', 'AUDF Name', and 'Description'. At the bottom of the window, there are buttons for 'Authoriza...', 'Record St...', and 'Exit'.

You can click 'Search' button to view all the AUDF records of your bank. However, you can filter your search based on any of the following criteria:

Authorization Status

Select the authorization status of the AUDF you want to view the details from the drop-down list. The options are:

- Authorized
- Unauthorized

Record Status

Select the record status of the AUDF from the drop-down list. The options are:

- C – Closed
- O - Open

AUDF Name

Select the name of the AUDF from the option list.

Description

Select the description of the AUDF from the option list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Authorization Status
- Record Status
- AUDF Name
- Description

2.4 Specifying Interface Definition Details

You can define the format details and properties associated with interface file in the 'Interface Definition' screen. You can invoke this screen by typing 'GIDINTDF' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

GIDINTDF' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

You can define the following interface file properties, formats and components here.

Branch Code

Specify the code of the branch to which the interface belongs.

Interface Type

Select the interface type from the following options:

- Incoming - Select this option if the file data needs to be uploaded into Oracle FLEXCUBE
- Outgoing - Select this option if data from Oracle FLEXCUBE needs to be written into file

File Mask

Specify the file mask for the outgoing interface file.

During processing, specify 'ALL' in the 'File Mask' field to pick up any file for upload. 'ALL' option means there is no specific file name for the interface as a file mask. In this case, it is not mandatory to provide a file name for the interface. The system ignores any file name provided for the interface at the time of processing.

CRC Required

Check this box if you want to check the CRC while transferring the data.

In case of incoming interface, system checks for the CRC value in the file name maintained in 'CRC file mask'. For outgoing interface, system generates the CRC value in a CRC file.

CRC File Algorithm

Specify the CRC algorithm which has to be used to calculate the CRC Value.

CRC File Mask

The path of CRC File mask gets displayed here.

CRC File Path

The path of CRC File gets displayed here.

External System

Specify the external system with which Oracle FLEXCUBE is interfacing.

Format Type

Select the type of data length in the interface from the following options:

- Fixed – Select this option if the file data has to be in fixed width.
- Delimited - Select this option if the file data has to be in delimited format.

Delimiting Character field gets enabled for you to specify the delimiting character if you select the format type of definition as 'Delimited'.

File Path

Specify the path of the file.

Data Log Required

Check this box to indicate if the confirmation details are required in logged file

Commit/Fetch Frequency

Specify the number of transaction committed or fetched at a given point of time.

Date Format

Specify the date format for the interface file.

No of Executions Day

If you select frequency type as 'Daily', specify the total number of interface file processing executions in a day.

This field is applicable only for incoming interface file process.

Duplication File Check Reqd for Current Date

Check this box to indicate that the duplicate files should not be added for the current date.

Interface Code

Specify a unique interface code to identify the interface as incoming or outgoing.

Delimiting Character

Specify the delimiting character if you select the format type of definition as 'Delimited'.

When to Run

Select the stage of application the interface has to be triggered.

Mandatory

Check this box to indicate that the interface has to be mandatorily processed before moving on to the next stage of EOD. If this box is checked system checks if the interface has been processed or not and if it is not processed system will not allow movement to the next EOD stage.

Triggering

Select an appropriate option to indicate how the interface should be triggered. The options available are:

- Manual – Select this option if the interface has to be triggered manually.
- System – Select this option if the interface has to be triggered automatically.

During EOD if there are any mandatory unprocessed interfaces and if the triggering type is selected as 'System' then the interface is triggered automatically. In case of Incoming interface if triggering type is selected as 'System' then system checks if the file is available in the 'ready' folder for that interface. If the file is present the system will process it. In case of outgoing interface if triggering type is selected as 'System' then, system will automatically trigger the Outgoing interface.

Note

If the interface is mandatory the triggering type must be system. However, even if the triggering type is mentioned as System, you can manually trigger the interface whenever required through Interface triggering screen.

Confirmation File Required

Check this box to indicate if confirmation is required for an incoming file. If this box is checked then when incoming file is processed, system checks whether confirmation file is available in the folder specified. If the file is not available then incoming file processes will raise an error indicating the confirmation file is not available.

Confirmation File Path

The path of confirmation file gets displayed here.

Confirmation File Mask

The path of confirmation file mask gets displayed here.

Justification

You can specify the justification details of fixed format type interface file here.

Date

Select the justification type for date field from the drop-down list. The options are:

- Right
- Left

Number

Select the justification type for number field from the drop-down list. The options are:

- Right
- Left

Text

Select the justification type for text field from the drop-down list. The options are:

- Right
- Left

Note

Default justification type for text and date field type is Left and number field type is right.

Frequency Type

Select the frequency type for interface file processing from the following drop-down options:

- Daily
- Weekly
- Fort Nightly
- Monthly
- Quarterly
- Yearly
- Adhoc

Note

If Adhoc is specified it will override any existing restrictions.

Week Day

If you select frequency type as 'Weekly', select the day from the drop-down list for processing the interface file. The options available are:

- Sunday
- Monday
- Tuesday
- Wednesday
- Thursday
- Friday
- Saturday

Month

If you select frequency type as 'Quarterly, Half Yearly and Yearly', select the month for the interface file execution from the drop-down list. The options available are:

- January
- February
- March
- April
- May
- June
- July
- August
- September
- October
- November
- December

Date

If you select frequency type as 'Monthly, Quarterly, Half Yearly and Yearly', select the date of the month for the interface file execution from the drop-down list.

Last Run Date

The last run date gets displayed here

Next Run Date

The day on which the interface can be triggered gets displayed here.

Padding Character

You can specify the padding character of fixed length format type interface file here. All the data types can have the same padding character

Date

Specify the padding character for date field.

Number

Specify the padding character for number field..

Text

Specify the padding character for text field.

Note

All the data types can have the same padding character.

Pre Message

Specify the value that should be calculated before triggering the interface in the predefined format.

Post Message

Specify the value that should be calculated after Interface processing is done in the predefined format.

Pre Message AUDF

Specify the AUDF that needs to be invoked before triggering the interface. You can use this to add additional functionality required at the message level.

Post Message AUDF

Specify the AUDF that needs to be invoked after triggering the interface. You can use this to add additional functionality required at the message level.

Incoming File

You can specify the interface details applicable for incoming file details here.

Function ID

Specify the function id for which the incoming data need to be sent.

Incoming File Mask

Specify the file mask for selecting the incoming files from the file directory. System supports four types of file masking:

- Date and Time mask (YYYYMMDDHHMISS) – (year, month, date, hours, minutes and second)

- Sequence number based mask(NNN) – 3 digit numeric numbers
- Start With File Name – File names starting with a specific signature. (Upload all files which are starting with incoming File name)
- Exact File Name – File Names which are exact match with the file name in interface definition
- ALL - All files that are present in the directory will be picked up without validating the file names.

System searches all the files which are matching the mask criteria and process the files one by one “_” as the split separator for the file name and the mask criteria.

Note

System will continue or break the uploading of records based on the error handling defined in the 'On Override' field. If it is Continue, then the system will ignore the current record and continue with the next record. If it is Reject, then the system will stop the execution of the file and start executing the next available incoming file.

Note

By default system append the Incoming File Mask type to the file name while searching the physical file name. If an interface supports for multiple type incoming files, then same file mask is applicable for all type of incoming files.

Processed File Mask

Specify the file mask for renaming the incoming file after uploading the data.

Default Action

Select the default action which needs to be invoked to process the uploaded data in the upload table from the drop-down list below:

- New
- Modify
- Close

On Override

Select the action to be taken if an override occurs from the drop-down list below:

- Reject
- Continue
- Skip

Outgoing Interface

Specify the corresponding outgoing interface file for the above incoming file.

Suppress Start Reference

Check this box to indicate that the start reference number should be suppressed.

If the checkbox is selected and start reference element is defined in the component definition, system raises an error message while saving the interface. System validates the start reference check for Header, Body and Footer.

For a given interface, mask and suppress start reference are applicable to all the file names configured for that interface

Log Output

Select the type of details to be updated in the log file from the adjoining drop-down list. This list displays the following values:

- Error
- Success
- Both

While processing the interface file, system verifies the log output value and the below details:

- If the value of “Log Output” is “Error”, then, system creates an error file (<INTERFACE_NAME>_FILENAME>_ERR_<ProcessRefNo>.dat) in Log_Failure folder and update the primary key elements and the corresponding error details (error code and message).
- If the value of “Log Output” is “Success”, then, system creates a data file (<INTERFACE_NAME>_FILENAME>_SUC_<ProcessRefNo>.dat) in Log_Success folder and update the primary key elements. “
- If the value of “Log Output” is “Both”, then, system creates both error file and data file in log folder.

During the interface configuration, log_failure and log_success folders are created in the interface configured folder.

Schedule Details

Schedule

Check this box to initiate scheduling of file pick up.

Start Time

Hour

Select the start time in hours to pick the files for processing from the drop down list. This field is enabled for input only if you select the ‘Schedule’ check box.

Min

Select the start time in minutes to pick the files for processing. This field is enabled for input only if you select the ‘Schedule’ check box.

End Time

Hour

Select the end time in hours, till when the files can be picked for processing. This field is enabled for input only if you select the ‘Schedule’ check box.

Min

Select the end time in minutes, till when the files can be picked for processing. This field is enabled for input only if you select the ‘Schedule’ check box.

Parallel Processes

You can specify the parallel process details here.

Parallel Process Required

Check this box to indicate if parallel processing is required if multiple interface files has to be processed at a given time.

When you select parallel process required parallel process type field gets enabled.

Parallel Process

Select the type of parallel process you want to keep for the interface processing:

- Record Based – Select this option if you want parallel processing to be based on the number of records you maintained.
- Process Based – Select this option if you want parallel processing to be based on the number of parallel processes that you maintained.

No of Records

Specify the number of records of parallel process can be performed at a given time. This field gets enabled only if you select the parallel process type as 'Record based'.

No of Parallel Process

Specify the number of parallel process can be performed at a given time. This field gets enabled only if you select the parallel process type as 'Process based'.

2.4.1 Specifying Component Details

You can specify the component details here. Click 'Component Details' button in the 'Interface Definition' screen.

The screenshot shows a window titled 'Component Details' with two main sections: 'Component Linkage' and 'Component Field Linkage'. Both sections contain tables with columns for identifying and configuring components and their fields.

Serial Number *	Component Name *	Component Type	Parent	Relation	Batch By Field	Where Claus
		Header				

Serial Number *	Field Name *	Field Type	Default	Data Type *	Length *	Column Name	Object Name
		Message		Character			

The following details are captured here:

Component Linkage

You can specify the component linkage details here.

Serial Number

Specify the component position here.

Component Name

Specify a name for the component.

Component Type

Select the type of component from the options available in the drop-down list. The options available are:

- Header
- Body
- Footer
- Batch Header
- Batch Footer
- Batch Body

If header and footer are defined in component details section and opted for suppressing start reference, then system consider the first line as header and bottom most line as the footer and continues the execution.

Parent

Specify the parent component to which component is linked

Relation

If parent component is specified, then specify the relation here.

Batch by Field

Specify the field in the component based on which you want to create a batch.

This is applicable only for Outgoing Interfaces.

Where Clause

Specify the where Clause for the component

Group By

Specify the group by clause for the component.

Order By

Specify the order by clause for the component.

Pre Component

Specify the value to be calculated before the component is processed, if any.

Pre Component AUDF

Specify the AUDF that has to be executed before the component is processed, if any.

You can use this to add any additional functionality required at the component level.

Post Component

Specify the value to be calculated after the Component is processed, if any.

Post Component AUDF

Specify the AUDF that has to be executed after the component is processed, if any.

You can use this to add any additional functionality required at the component level.

Pre Record

Specify the value that needs to be calculated before the record is processed, if any.

Pre Record AUDF

Specify the AUDF that has to be executed before the record is processed, if any.

You can use this to add any additional functionality required at the record level.

Post Record

Specify the value that needs to be calculated after the record is processed, if any.

Post Record AUDF

Specify the AUDF that has to be executed after the record is processed, if any.

You can use this to add any additional functionality required at the record level.

Component Field Linkage

You can specify the component field linkage details here.

Serial Number

Specify the order of fields here.

Field Name

Specify the field name here

Field Type

Select the type of field from the options available in the drop-down list. The options available are

- Message
- Intermediate
- Start Identifier
- End Identifier
- Action

Default

Specify the default value for the field here.

Data type

Specify the data type of the field here.

Length

Specify the length of the field here.

Column Name

Specify the column name in the database of the field here.

Object Name

Specify the object name from which the field should be derived.

Start Position

Specify the start index of the field in the fixed length format.

Precision

If the field is of numeric type, then specify precision here.

Translation

If the field value needs to be translated then select the translation code that has to be used for the translation.

Un-translated

Specify the action to be taken if the translation value is not present

Pre Field

Specify the value that needs to be calculated before the field value is processed.

Pre Field AUDF

Specify the AUDF that should be executed before the processing of the field here.

Post Field

Specify the value that needs to be calculated after the field value is processed.

Post Field AUDF

Specify the AUDF that should be executed after the processing of the field.

Primary Key

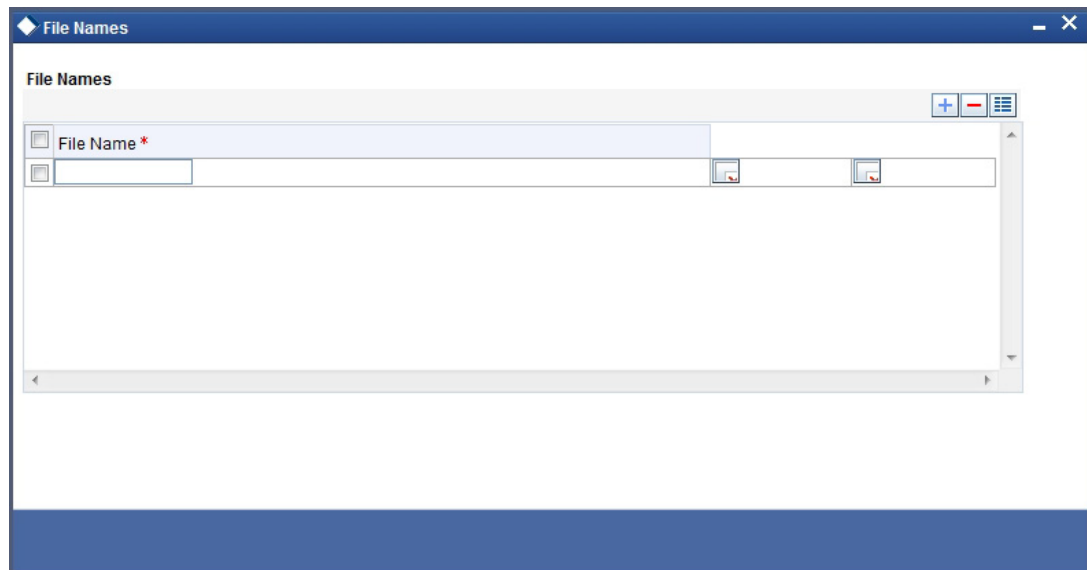
Check this box to indicate the primary key to identify the individual record in the incoming file.

Note

System allows a maximum of 5 elements as Primary Key element for a component and it is applicable to component body alone. If the interface has multiple components, then system allows defining primary key in any one of the component.

2.4.2 Specifying Incoming File Names

Click on 'Incoming File Names' button in the 'Interface Definition' screen to specify the incoming interface file names.



You can specify the Incoming file names here.

File Names

The incoming file names are maintained here.

File Name

Specify the incoming interface file name here.

2.4.3 Viewing Interface Definition Summary

You can view the interface details maintained in the system using 'Interface Definition Summary' screen. You can invoke this screen by typing 'GISIFTDF' 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 'Summary'. At the top, there are 'Advanced Search' and 'Reset' buttons. Below this, there are several search filters: 'Authorization Status' (dropdown), 'Record Status' (dropdown), 'Branch Code' (text input with a search icon), 'External System' (text input with a search icon), 'Interface Code' (text input with a search icon), and 'Interface Type' (dropdown set to 'Incoming'). Below the filters is a pagination bar showing 'Records per page 15', 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go' buttons. Below the pagination bar is a table with the following columns: 'Authorization Status', 'Record Status', 'Branch Code', 'External System', 'Interface Code', and 'Interface Type'. The table is currently empty. At the bottom of the window, there are three buttons: 'Interface', 'Authoriza', and 'Record St', and an 'Exit' button on the right.

You can click 'Search' button to view all the interface records of your bank. However, you can filter your search based on any of the following criteria:

Authorization Status

Select the authorization status of the Interface definition you want to view the details from the drop-down list. The options are:

- Authorized
- Unauthorized

Branch code

Select the branch code belonged to the interface details from the option list.

Interface code

Select the interface code belonged to the interface details from the option list

Record Status

Select the record status of the interface details from the drop-down list. The options are:

- C – Closed
- O - Open

External System

Select the name of the external system belonged to the interface details from the option list.

Interface Type

Select the type of interface from the option list as incoming or outgoing.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Authorization Status
- Record Status
- Branch Code
- External System
- Interface Code
- Interface Type

2.4.3.1 Search Functionalities

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.

2.4.4 Uploading Customer Service Model

You can upload customer service model on a monthly basis using 'Interface Definition' screen (GIDINPRS) by creating STGICSMID Interface ID. You need to provide a fixed length file with no delimiter for customer service model upload.

You can maintain an audit trail for customer maintenance screens every time 'Customer Service Model' is inserted as a part of the upload.

The system will derive the customer ID from the PID number provided as part of the upload. Based on 'Customer Service Code' value, the system will update Customer Service Model at customer maintenance screens as an auto authorize amendment.

The system will derive Customer Service Model based on the 'Customer Service Code' of the record.

The system will update Customer Service Model only for those records where FLG_MNT_STATUS value is 'A'.

The system will provide an error log through GIDFILOG for the following conditions:

- For unauthorized records, i.e. FLG_MNT_STATUS is not 'A' (Unauthorized records with FLG_MNT_STATUS = 'U'), the 'Record is unauthorized' message, PID number and its corresponding Customer Service Model details will be provided in error log.
- For records in which PID number exists in the file but is not present in the system, then the 'Invalid PID Number' message will be provided in error log.
- For records in which 'Customer Service Code' exists in the file but is not present in the system, then 'Invalid Customer Service Code' message, Customer Service Code and Corresponding PID No and Customer ID details will be provided in the error log.

The system will store Customer Service Model with an effective month at the 'Customer Service Model History'. The effective month should be maintained as 1 month in advance from the month mentioned in DAT_MONTHEND. For instance, if the DAT_MONTHEND for a

particular Customer ID is mentioned as 201501 (2015 Jan), the effective month for the record should be 1503.

Note

Fields such as, 'DAT_MONTHEND', 'COD_CUST_NATL_ID', 'FLG_CUST_CATEGORY' and 'FLG_MNT_STATUS' are mandatory for an upload record.

2.5 Generating Dynamic Interface Component

While saving the Interface Definition details, a dynamic package is created in the database along with external tables for each component in case of incoming file.

2.5.1 Processing Outgoing Interface

The steps involved in Outgoing interface file processing is explained below:

- When a Outgoing Interface Definition is saved, a dynamic package is created in the Database. The outgoing package consists of fn_handoff, fn_process_components functions and function per component as defined in the Outgoing Interface definition.
- Function fn_handoff is the triggering point for the Outgoing process, which internally call the function fn_process_components after the completion of initiation and message level processing.
- Except the child component functions, independent component functions are invoked by the fn_process_components function in the order on the Component Definition.
- Child component functions are internally invoked by the corresponding parent component function with required parameters based on the relationship between them.
- Each function call gets appended with its result in the Clob which is at package level. This Clob is the result of the Outgoing process, which is written into a flat file for Outgoing in the relevant folder.
- Update the last and next run date of the interface. If data logging is required then the system would insert the file data into log table.

2.5.2 Processing Incoming Interface

There are two upload tables for handling the process of incoming interface. The master Upload table is for handling the master data and detail Upload table for the child data which can have 200 VARCHAR2 (4000) fields to store data for each field in the file. Intermediate fields cannot be considered for transaction processing but could be used only for derivation/ transaction of transaction data.

- When an Incoming Interface Definition is saved, a dynamic package and external tables for each component is created in the Database. The generated dynamic package consists of fn_process_file and fn_upload for maintenance functions.
- External tables per component will be created on the file name mentioned in the Interface Maintenance, which is used for reading the corresponding component's data from the file.
- The processing of the Incoming interface would takes place in two steps
 - **File process (FP):** This process transfers data from file to upload tables.
 - **Data process (DP):** This process transfers data from upload table to the base tables using the function ID specific FCJ package invocation.

2.5.3 Processing File Transfer to Upload Tables

You can trigger file transfer process by invoking the `fn_process_file` function in the dynamic package. This function consists of cursors based on the external tables created. When a parent record is read from the external table a Record Identifier is generated for that record and it is assigned to the children when inserted into the upload table which helps in identifying the corresponding children for that parent record in 'D' Process.

If a relation is mentioned in the component definition and the relation fields are provide in the file then the corresponding fields are used for identifying the child records. Which one to use will be determined by the dynamic package generator based on the Interface Maintenance parameters.

The files taken for processing at the time of processing is decided by the incoming file mask selected for the particular interface.

For example, in Interface Definition (BIS):

if the incoming file name is defined as "CCYUPLOAD.TXT" and incoming file mask is defined as "YYYYMMDDHHMISS", then system will search and process the file names like CCYUPLOAD_20100110201000.TXT, CCYUPLOAD_20100110202001.TXT.

If the incoming file mask is defined as "nnn" then system will search and process the file names like CCYUPLOAD_001, CCYUPLOAD_002.

If the incoming file mask is defined as "Starting with File Name", system will search and process all the files which are starting with Incoming File name like (CCYUPLOAD_20100110200010.TXT, CCYUPLOAD_201001102020.TXT, CCYUPLOAD_001, CCYUPLOAD_002).

2.5.4 Processing Data Process from Upload Table to Base Table

You can trigger data process by invoking the `fn_upload` function in the dynamic package. This function can be divided into two parts:

- Populating the appropriate FCJ type with values from the upload tables.
- Invoking the FCJ function ID package for processing the data.

Populating the appropriate FCJ type with values from the upload tables is taken care by invoking the `fn_upload_table_to_type` function which populates the data from upload table to type using the cursors on upload table based on the base table columns.

Invoking the FCJ function ID package for processing the data is taken care by the function itself by invoking the appropriate function ID package's `fn_main` function with the populated type and action. The validation and business process which are already incorporated as part of the function ID development.

After data processing, the log is written for the records if the primary key has been selected at the interface definition level. Else, the log is not written for that record.

2.5.5 Parallel Processing of Generic Interface

Parallel processing feature is available only for Incoming file process and under incoming process it would be supported for data process i.e D-process. You need to select parallel option and the number of parallel processes or each process for processing specified number of records in the 'Interface Definition' screen.

Note

- Select 'Process Based' option, if the incoming file for upload consists of batch headers.

- Select 'Record Based' option, if the incoming file for upload consists of fields of only body type.

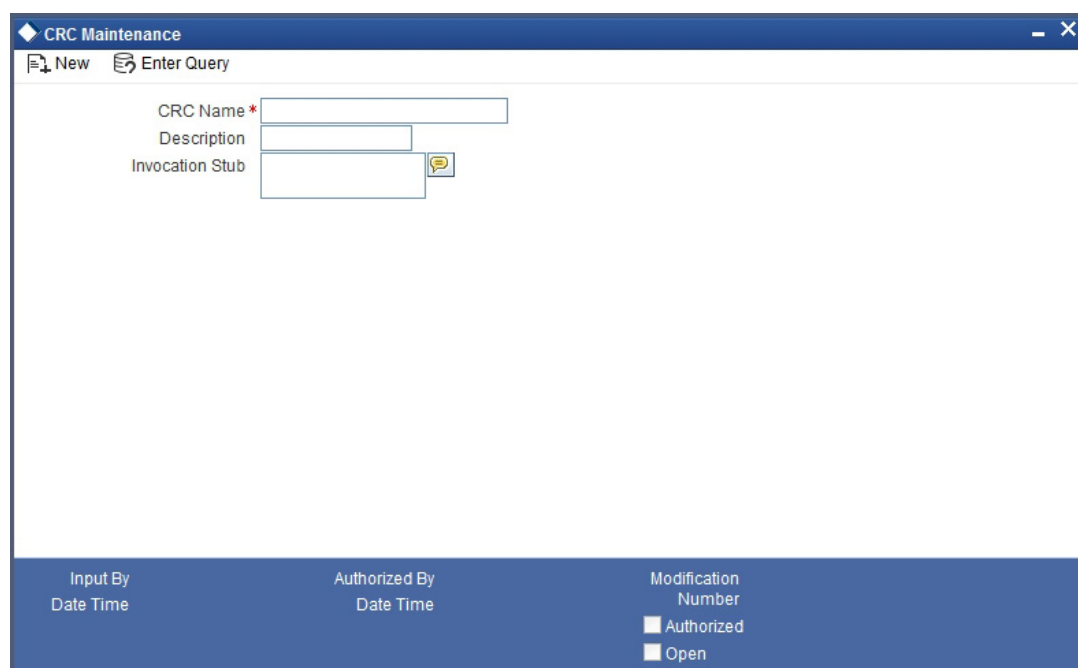
During file processing stage, system would check whether parallel process is required or not. If required, based on the parallel process parameter system would internally update the process number field of master upload table. The parallel process parameter is restricted to 3 as per 'GI_MAX_PARALLEL_THREADS' parameter in the table 'cstb_param'. This restriction is needed and the parameter can be configured based on the system load as analysed by the DBA.

During data processing stage, system checks maximum number of processes and submits the job for each process number. System waits till all the processes are completed. The D-process happens as the job runs and the file log is updated. This data processing is done based on the process number updated during file processing. The files under process are subsequently moved to the 'Processed' folder irrespective of whether the jobs are done or not. The system does not wait until all the processes are completed. If any process is resulted in error then the interface would be considered as error.

2.5.6 Maintaining CRC Algorithm Details

Generic Interface supports CRC-32 and Adler-32 Checksum algorithms for generating CRC value of the file. Other CRC components which are developed in Java and PL/SQL are also supported by GI using the 'CRC Maintenance' screen.

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



You can write the invocation stub along with the CRC component details here:

CRC Name

Specify the CRC Algorithm used to calculate the CRC value for the file.

Description

Specify the description of the CRC Algorithm here.

Invocation Stub

Specify the stub to invoke the CRC generation component.

2.5.7 Viewing CRC Summary Details

You can view the CRC details maintained in the system using 'CRC Summary' screen. You can invoke this screen by typing 'GISCRCFN' 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 'Summary'. At the top, there are 'Advanced Search' and 'Reset' buttons. Below these are four search filters: 'Authorization Status' (dropdown), 'Record Status' (dropdown), 'CRC Name' (text input with a search icon), and 'Description' (text input with a search icon). A pagination bar shows 'Records per page' set to 15, with 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go' buttons. Below the filters is a table with the following headers: 'Authorization Status', 'Record Status', 'CRC Name', and 'Description'. The table body is currently empty. At the bottom of the window, there are buttons for 'Authoriza...', 'Record St...', and 'Exit'.

You can click 'Search' button to view all the CRC records of your bank. However, you can filter your search based on any of the following criteria:

Authorization Status

Select the authorization status of the CRC algorithm from the drop-down list. The options are:

- Authorized
- Unauthorized

CRC Name

Select the name of the CRC algorithm from the option list.

Record Status

Select the record status of the CRC algorithm from the drop-down list. The options are:

- C – Closed
- O - Open

Description

Select the description of the CRC algorithm from the option list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Authorization Status
- Record Status

- CRC Name
- Description

2.5.7.1 Search Functionalities

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.

2.5.8 Maintaining File Transferring Details

Though Generic Interface doesn't support file transfer, file transfer components available as independent component can be used for transferring files.

You can maintain the file transfer details in 'External System Maintenance' screen and other details in 'File Transfer Definition'. You can invoke this screen by typing 'GIDFTPDEF' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'File Transfer Definition' window with the following fields and controls:

- FTP Name ***: Text input field.
- Description**: Text input field.
- Mode Type**: Drop-down menu with 'Push' selected.
- External System**: Text input field with a small icon to its right.
- File Name**: Text input field.
- Local Path**: Text input field.
- Remote Path**: Text input field.
- Protocol**: Drop-down menu with 'HTTP' selected.
- Input By**: Label above a 'Date Time' input field.
- Authorized By**: Label above a 'Date Time' input field.
- Modification Number**: Label above a 'Date Time' input field.
- Authorized**: Checkable box.
- Open**: Checkable box.

You can maintain file following transfer details here:

File Transfer Name

Specify a name for the File Transfer here.

Description

Specify a description for the FTP name given here.

Mode

Select the mode of transaction of the file from the drop-down list. The options are:

- **Push** – Select this option if you are transferring the file from your system to another one.

- Pull – Select this option if you are transferring the file from another system to yours.

External System

Select the external system name, whose credentials are used to do the FTP transfer

File Name

Specify the file which has to be transferred.

Local Path

Specify the path from where the file has to be taken for transferring.

Remote Path

Specify the path in the external system to where the file has to be transferred.

Protocol

Select the protocol to be used for file transfer from the drop-down list. They are:

- FTP (File Transfer Protocol)
- HTTP (Hypertext Transfer Protocol) – MIME(From Client to Application Server)
- Connect Direct (Only in case of Mainframes)

2.5.9 Viewing File Transfer Summary

You can view the details of file transferred in the system using 'File Transfer Summary' screen. You can invoke this screen by typing 'GISFTPDF' 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 'Summary'. At the top, there are 'Advanced Search' and 'Reset' buttons. Below this, there are several input fields: 'Authorization Status' (a dropdown menu), 'Record Status' (a dropdown menu), 'FTP Name' (a text box with a search icon), and 'File Name' (a text box with a search icon). To the right of these fields is an 'External System' dropdown menu. Below the search filters, there is a pagination bar showing 'Records per page' set to 15, and navigation buttons for 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go'. Below the pagination bar is a table with the following headers: 'Authorization Status', 'Record Status', 'FTP Name', 'External System', and 'File Name'. At the bottom of the window, there are buttons for 'Authoriza...', 'Record St...', and 'Exit'.

You can click 'Search' button to view all the file transaction records of your bank. However, you can to filter your search based on any of the following criteria:

Authorization Status

Select the authorization status of the file transaction you want to view the details from the drop-down list. The options are:

- Authorized
- Unauthorized

File Transfer Name

Select the name of file transfer used for file transaction from the option list.

File Name

Select the name of the file used for file transaction from the option list

Record Status

Select the record status of the file transaction from the drop-down list. The options are:

- C – Closed
- O – Open

External System

Select the name of the external system belonged to the file transaction from the option list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Authorization Status
- Record Status
- File Transfer Name
- External System
- File Name

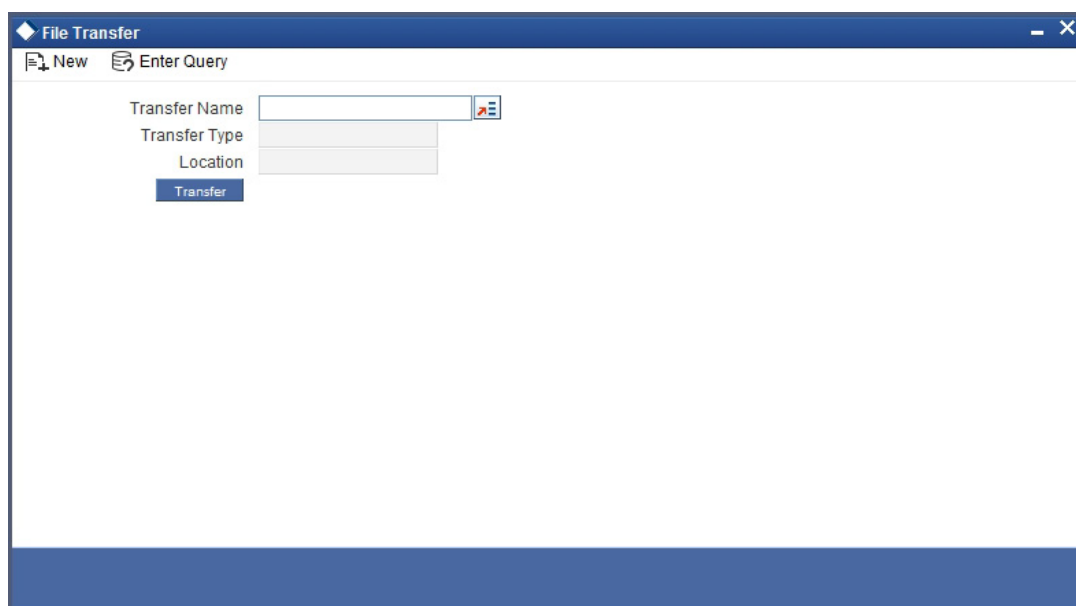
2.5.9.1 Search Functionalities

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.

2.5.10 Triggering File Transfer

You can use 'File Transfer' to trigger the file transfer. You can invoke this screen by typing 'GIDFTPTF' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a window titled "File Transfer" with a standard Windows-style title bar (minimize, maximize, close buttons). Below the title bar is a menu bar with "New" and "Enter Query" options. The main area contains three input fields: "Transfer Name" (with a dropdown arrow), "Transfer Type", and "Location". Below these fields is a blue "Transfer" button. The window has a dark blue footer bar.

You can specify the file details to transfer the same.

Transfer Name

Select the name of the file which has to be transferred.

By default 'Transfer Type' and 'Location' gets displayed. Click 'Transfer' button to transfer the selected file.

2.5.11 Maintaining Translation Details

You can maintain translation details required between the external system values to Oracle FLEXCUBE Values and vice Versa in the 'Translation Definition' screen. You can invoke this

screen by typing 'GIDTRANS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Translation Definition' window. At the top, there is a title bar with a diamond icon and the text 'Translation Definition'. Below the title bar is a menu bar with 'New' and 'Enter Query' options. The main area contains a 'Table Name *' text box. Below this is a section titled 'Translate Parameter' which contains a table with two columns: 'In Parameter' and 'Out Parameter'. Each column has a small icon to its right. At the bottom of the window, there are three sections: 'Input By' with a 'Date Time' field, 'Authorized By' with a 'Date Time' field, and 'Modification Number' with two checkboxes labeled 'Authorized' and 'Open'.

You can capture the following details here:

Translation Name

Specify the translation name you want to keep for the set. The translation name gets linked to the interface field whose value needs to be translated during Interface Processing.

Translation Parameters

The following details are specified here:

In Param

Specify the system value for the corresponding external systems value.

Out Param

Specify the external system's value for the corresponding Oracle FLEXCUBE value.

2.5.12 Viewing Translation Summary Details

You can view the translation details maintained in the system using 'Translation Summary' screen. You can invoke this screen by typing 'GISTRANS' 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 'Summary'. At the top, there are 'Advanced Search' and 'Reset' buttons. Below these are three search filters: 'Authorization Status' (a dropdown menu), 'Record Status' (a dropdown menu), and 'Table Name' (a text input field with a search icon). A pagination bar shows 'Records per page' set to 15, with 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go' buttons. Below the filters is a table with three columns: 'Authorization Status', 'Record Status', and 'Table Name'. The table is currently empty. At the bottom of the window, there are three buttons: 'Authorizal', 'Record St', and 'Exit'.

You can click 'Search' button to view all the translation records of your bank. However, you can filter your search based on any of the following criteria:

Authorization Status

Select the authorization status of the translation you want to view the details from the drop-down list. The options are:

- Authorized
- Unauthorized

Record Status

Select the record status of the translation from the drop-down list. The options are:

- C – Closed
- O - Open

Translation Name

Select the name of the translation from the option list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Authorization Status
- Record Status
- Translation Name

2.5.12.1 Search Functionalities

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.

2.5.13 Viewing FTP Log Files

You can view the log files of the files that are transferred using the 'FTP File Log' screen. You can invoke this screen by typing 'GISFTPLG' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

You can click 'Search' button to view all the FTP file log records of your bank. However, you can filter your search based on any of the following criteria:

Transfer Name

Select the transfer maintenance name used to transfer the file from the option list.

User Id

Select the user id used for transferring the file from the option list.

Status

Select the status of file transfer process from the option list.

File Name

Select the name of the file which is transferred from the option list.

Transferred On

Select the timestamp at which the file is transferred from the adjoining calendar.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Transfer Name
- File Name
- User Id
- Transferred on
- Status

2.5.13.1 Search Functionalities

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.

2.5.14 Viewing Interface Run chart

You can use 'Run Chart Summary' to list the interfaces that should be processed in the branch on current branch date. You can invoke this screen by typing 'GISRNCHT' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

You can click 'Search' button to view the list the interfaces that should be processed on the current date. However, you can to filter your search based on any of the following criteria:

Branch Code

Select the branch code of the branch for which you want to view the run chart from the option list.

External System

Select the name of the external system to which the interface code is linked from the option list.

Interface Code

Select the name of interface code which has to be processed from the option list.

Interface Type

Select the type of interface from the option list as incoming or outgoing.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

- Branch Code
- External System
- Interface Code
- Interface Type
- Stage
- Mandatory
- Processed

2.5.14.1 Search Functionalities

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.

2.6 Invoking GI Process

You can trigger the process of Generic Interface using Gateway Messages, EOD run or through 'Interface Trigger' screen. You can invoke this screen by typing 'GIDINPRS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'Interface Trigger' application window. It features a search form with the following fields and controls:

- Branch Code *
- Interface Code *
- External System *
- Interface Type
- File Name
- Status: U
- Process Code: Process All (dropdown)
- File Path *
- Physical File Name
- Filemask
- File Upload button
- File Pick Up section with a checkbox for 'Pickup All files in the interface folder' and a text field for 'Specific File to be picked up'
- Process button
- Cancel button

You can provide the following details here to invoke the GI routing package.

Branch Code

Specify the branch code from where the GI file process has to be initiated.

Interface Code

Select the Interface Code that has to be processed.

Based on the selected interface code, system defaults external system and interface type.

External System

The system displays the external system details.

Interface Type

The system displays the type of interface

File Name

Specify the file name if the selected Interface Code is Incoming.

Process Code

Select the process code from the drop-down list, if the selected Interface Code is Incoming. The options available are:

- File Processing – Populating the Upload tables using the file data.
- Data Processing – Populating the Base tables from the Upload tables.
- Process All – This will trigger ‘FP’ and ‘DP’ processes one after another.
- Retry – This is Retry operation the previous process that failed is triggered.
- Retry Error – This will rerun the ‘DP’ process for error records.

Physical File Name

A physical file name is applicable if you are processing a file that is uploaded through the ‘Interface Trigger’ screen.

When the file upload is successful, the system will display the name of the file in this field.

File Mask

The system displays the incoming file mask specified during interface definition.

Status

Specify the status of the GI file process.

Process Code

Specify the process code.

File Pick Up

Pick up all files in the interface folder

Check this box to pick all files present in interface folder for processing.

Specific files to be picked up

Specify the name of file if single ad-hoc file has to be picked up. This field will be disabled for input if you select the ‘Pick up all files in the interface folder’ check box.

On clicking ‘Process’ button, the system checks whether the folder designated in the interface definition exists and the user has requisite access permissions on the folder. If the folder does not exist or the operating system (OS) user does not have requisite access permissions, the

system displays an error message, which is logged in the interface log. The system stops the upload process and will not be submitted for further processing.

If the designated folder exists and the operating system (OS) user has the requisite access permissions for the folder, a check would be made to see if the file to be uploaded exists and the user has the requisite access permissions.

If either the file does not exist or the operating system (OS) and the user does not have the requisite access permissions on the file, the system displays an error message, which is logged in the interface log. The system stops the upload process and will not be submitted for further processing.

2.6.1 Manual Upload of a Single File

During manual upload of a single file, if you select an incoming interface for processing, the system checks whether the file mask for the interface is defined as 'ALL'. If the file mask is selected as 'ALL', the system ignores the file name specified in the interface definition.

You can specify the name of the file to be picked up from the folder designated in the interface definition for processing. The file should be in the format described in the interface definition.

2.6.2 Manual Upload of All Files in the folder

You can automatically upload all the files present in the folder designated in the interface definition. If you select an incoming interface for processing, the system checks whether the file mask for the interface is defined as 'ALL'. If the file mask is selected as 'ALL', the system ignores the file name specified in the interface definition.

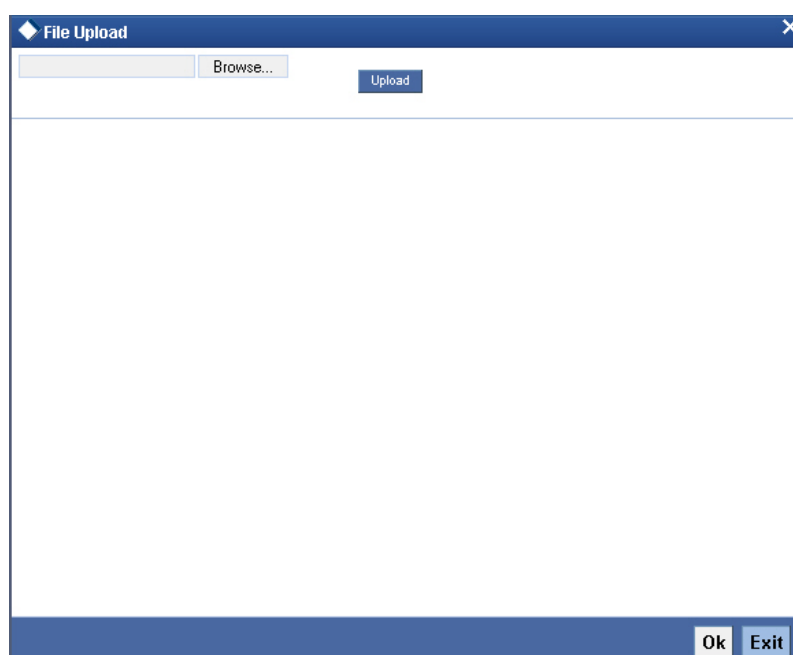
You can pick all files present in designated folder for processing by selecting the 'Pick up all files in the interface folder' check box. If you select this check box, you cannot specify a file name to be picked up from the designated folder for processing.

On submission of the process, the system processes all files in the designated folder one by one. After picking up the files, you cannot change the way file are processed.

2.6.3 Uploading a File for Incoming Interface Processing

From the 'Interface Trigger' screen, you can upload a file from your machine to the server for incoming interface processing.

Click 'File Upload' button on the 'Interface Trigger' screen. The system displays the following screen.



Click 'Browse' button to select the file from your local machine. Once the file is selected, click 'Upload' button to start the file upload.

The system allows you to upload the file only if the extension of the file is '.txt' and the content is plain text. If these conditions are not met, the system will display an error message.

On successful upload, the system will display a confirmation message. The file is uploaded to the DB server with the branch user ID prefixed to its name.

If the upload is successful, the system will display the file name in the field 'Physical File Name' of 'Interface Trigger' screen. Click 'Process' button to process the file.

Note

You can move the incoming file to the DB server 'Read' folder manually or through file upload feature.

Before starting the file upload, ensure that you have sufficient access permissions/grants to move and copy the files in the following folders inside file path specified while defining the interface.

- ready
- wip
- file_processed
- processed
- error

Ensure that you have sufficient access permissions to the location mentioned for CRC and confirmation.

Ensure that the Oracle directory 'IN_WIP' is created with java io file permissions. This corresponds to an entry in 'ALL_DIRECTORIES' table with directory name as 'IN_WIP' and directory path as 'filepath/wip', where the file path is the path maintained in Interface Definition screen (GIDFTDF).

For an outgoing file it is a single process of reading for database and writing in to file. But for incoming file there are two steps,

1. Reading the data from file and inserting into upload table - File Process (FP)
2. Reading the data from upload table and uploading as part of base table - Data Process (DP)

2.6.4 Viewing Scheduled Upload Logs

For scheduling uploads, you need to set the parameter 'IS_UPLOAD_SCHEDULED' to 'Y' in CSTB_PARAM table. You can schedule the uploads by creating a job in 'Job Maintenance' with the class name 'com.ofss.scheduler.quartz.FCGiUploadQrtz'. The block of code for input into the scheduler polling table should be present in the relevant source code.

To invoke 'Scheduled Upload Logs' screen, type 'GISSULOG' in the field at the top right corner of the application toolbar and click the adjoining arrow button.

	Scheduled Reference	User ID	Branch Code	Module Code	Upload Code	Function	Status
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

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

- User ID
- Function
- Branch code
- Status

The following details for each record are available in the results:

- Scheduled reference
- User ID
- Branch code
- Module code
- Upload code
- Function
- Status

2.6.5 Archiving Process

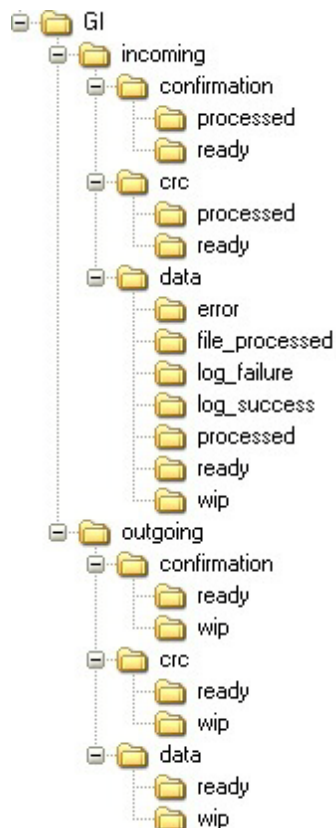
When you select the interface data for archiving while maintaining the parameters, the data gets archived. The upload table data and file log data is moved to archive tables. If parameter is set to delete then data is deleted from the upload/log tables without archiving.

2.6.6 Folder Structure

During generic interface for an incoming file, the file is placed in the ready folder when it's ready for upload. When Interface is triggered and after the successful file validation, it is moved to file processed folder and the interface processing unit gets triggered.

If the file validation fails the file is moved to the Error folder. After the successful processing of the file, it is renamed with actual file name and current date time stamp (YYYYMMDDHHMISS format) which is separated by underscore (_) and moved to the processed folder.

During generic interface for an outgoing file, the file writing process takes place in the WIP folder and after the successful completion of the writing process, the file is moved to the Ready folder. The file is renamed based on the file mask maintained.



2.7 Tracking the Status of Interface Processing

You can track the status of interface processing using the 'File Log' screen. You can invoke this screen by typing 'GISFILOG' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows the 'File Log' application window. At the top, there is a search bar with 'Advanced Search' and 'Reset' buttons. Below the search bar are several input fields for search criteria: Branch Code, External System, Interface Code, Status, File Name, Process Code, Process Reference Number, and Upload File Name. Each field has a dropdown arrow icon. Below the search fields is a table with columns: Branch Code, External System, Interface Code, Status, File Name, User ID, Process Code, and Process Reference. The table is currently empty. At the bottom right of the window is an 'Exit' button.

You can click 'Search' button to view all the interface transaction records of your bank. However, you can to filter your search based on any of the following criteria:

Branch code

Select the branch code of the interface file you want to track from the option list.

Interface Code

Select the interface code of the interface file you want to track from the option list.

Date of Processing

Select the date of the interface file transaction you want to track from the option list.

External System

Select the external system name with which the interface files transaction you want to track from the option list.

Status

Select the status of the interface file transaction you want to track from the option list.

Process code

Select the process code of the interface file you want to track from the option list.

When you click 'Search' button the records matching the specified search criteria are displayed. For each record fetched by the system based on your query criteria, the following details are displayed:

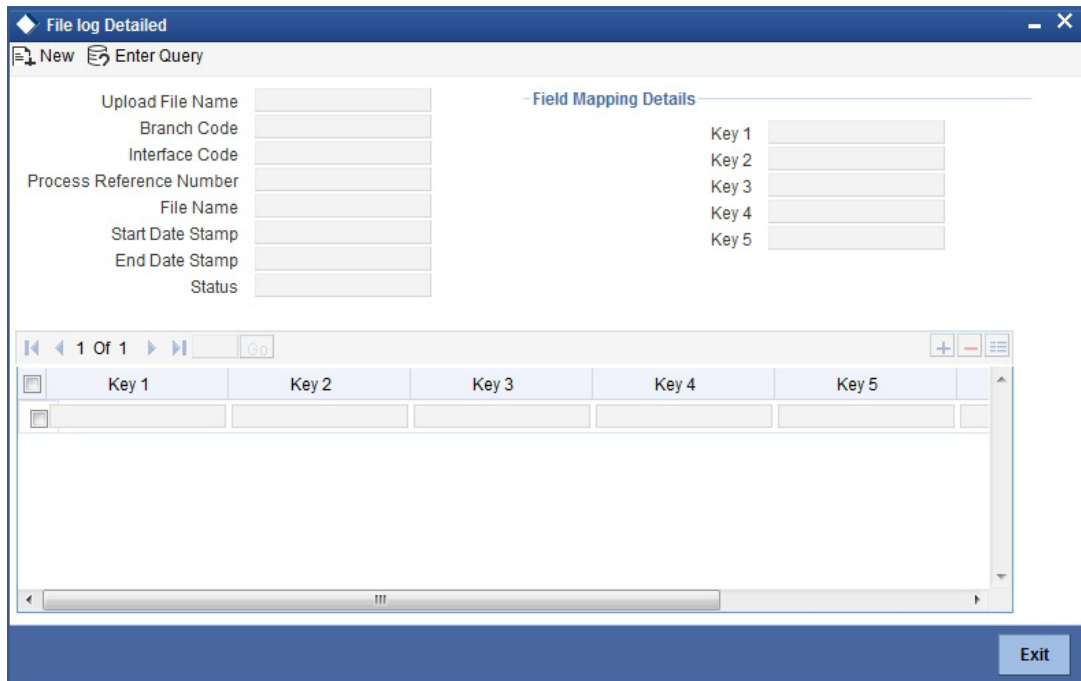
- Branch Code
- External System
- Interface code
- Status
- Date of Processing

- File Name
- User ID
- Process Code
- Last Maker Date Stamp
- Records Processed
- Records Errored
- Error Code
- Error Param
- Upload file name

2.7.1 Viewing Error Details of Individual Record

You can view the individual record error details of the uploaded file in the 'View Error Details' (GIDFILOG) screen. From the summary screen (GISFILOG), double click the selected record to view the error details screen.

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



Based on the upload file name and process reference number, system displays the error details here:

- Upload File Name
- Branch code
- Interface Code
- Process Reference Number
- File Name
- Started Time
- Ended Time
- Status

Following field mapping details are also displayed

- Key 1
- Key 2
- Key 3
- Key 4
- Key 5
- Error Code
- Error Description

2.8 Integrating GI with EOD

During the EOD batch run, GI EOD process also gets invoked at every stage. GI EOD process would in turn check whether all the required interfaces are processed at that stage or not.

System executes the following GI processes as part of EOD operation:

- Processing unprocessed interface
- GI Batch

2.8.1 Processing Unprocessed Interface

GI EOD process checks if all the required interfaces are process at that stage. If any interface is not processed, system process these interface and if it's a mandatory interface system would wait till it processed.

Note

If any mandatory interface is not processed before the respective stage then system would raise an error.

2.8.2 Processing GI Batch

Based on the interface frequency information and GI Batch would publish the Run-Chart for the present day run. Also it archives the interface data. GI Batch runs after Mark TI.

2.9 Processing Generic Interface during EOD

While processing any interface, the system checks whether the folder designated for the interface exists and the requisite access permissions are available.

If the designated folder is either missing or does not have the requisite access permissions, the system displays an error message in the interface log. However, the system does not stop batch execution. The batch skips the interface and move to the next interface to be processed.

If the designated folder exists and has the required access permissions, then the system checks if the file to be uploaded exists and has the requisite access permissions.

If the file to be uploaded either does not exist or does not have the required access permissions, then the system displays an error message would be logged in the interface log. The batch execution would not be stopped. The batch would simply skip the interface and move to the next interface to be processed.

The system performs the following validation during GI EOD processing:

- The folder path indicated in interface definition is available.
- The folder path is accessible to the user.
- The file to be uploaded is present in the folder path.
- The file to be uploaded is accessible to the user.

If any of the above conditions are not met, the system displays an appropriate error message, which is logged in the interface log. The system does not abort the batch process. The batch will skip to the next interface to be processed.

During GI EOD process, if there any incoming interface which has file mask as 'ALL', the batch picks up every file present in the folder designated for the interface and processes it one by one.

Note

When 'ALL' option is selected, if there are other interfaces, the system segregates all the other interfaces in the specified file path it into a different file path.

You cannot change the way the files are processed after the files are picked from the designated folder.

2.10 Global Variables and mask Attributes

The global variables and mask attributes used in the generic interface are explained here.

2.10.1 Global variables

The global variables used in the generic interface are explained below:

- @BRANCH – defaults the value to Current Branch of the User
- @BRANCHDATE – defaults the value to branch date.
- @LCY – defaults the value local currency of the branch
- @APPDATE – defaults the value application date
- @LENGTH – defaults the value length of the value of this field.
- @LENGTH ([COMPONENT_NAME]. [FIELD_NAME]) – defaults the length of the mentioned field and assigns to this field.
- @SUM ([COMPONENT_NAME]. [FIELD_NAME]) –defaults the sum of the field mentioned.
- @RECNUM () - defaults the number of rows of the mentioned component.

2.10.2 Mask Attributes

The mask attributes used in the generic interface are explained below:

- \$D - Date
- \$M - Month
- \$Y - Year
- \$H - Hour
- \$I - Minute
- \$S - Second

- / - will indicate the following character is a Constant

3. Reports

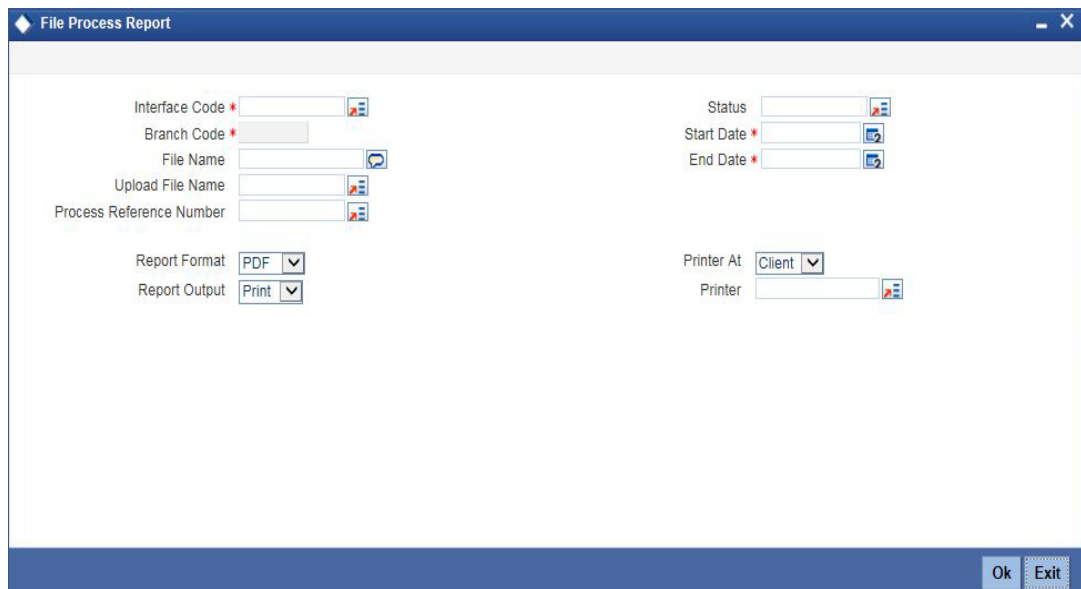
3.1 Introduction

This chapter provides the details of various reports that you can generate from Generic Interface module of Oracle FLEXCUBE.

3.2 File Process Report

You can view a standard online report for the upload exception details of the interface in the 'File Process Report' screen. You can also view the status of records uploaded. You can select the interface, file name and the status of records (successful, failed or both) as parameters. The system displays the report with records that match the parameters.

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



The screenshot shows the 'File Process Report' window with the following fields and controls:

- Interface Code *
- Branch Code *
- File Name
- Upload File Name
- Process Reference Number
- Status
- Start Date *
- End Date *
- Report Format: PDF (dropdown)
- Report Output: Print (dropdown)
- Printer At: Client (dropdown)
- Printer
- Ok and Exit buttons at the bottom right.

You can filter the report based on below details:

Interface Code

Select the interface code of the upload file from the options maintained.

Branch Code

The system defaults the branch code for file upload based on the Interface Code selected.

File Name

The system displays the file name based on the Interface Code selected.

Upload File Name

Select the name of the file for upload from the options maintained.

Process Reference Number

Select the process reference number of the upload file from the options maintained.

Status

Select the status from the options maintained.

Start Date

Specify the start date of the report date range.

End Date

Specify the end date of the report date range.

Report Format

Select the format in which you need to generate the report from the drop-down list. This list displays the following values:

- HTML - Select to generate report in HTML format
- RTF - Select to generate report in RTF format
- PDF - Select to generate report in PDF format
- EXCEL - Select to generate report in EXCEL format

Report Output

Select the report output in which you need to generate the report from the drop-down list. This list displays the following values:

- Print - Select to print the report
- View - Select to view the report
- Spool - Select to spool the report to a specified folder so that you can print it later

Printer At

Select the location to print the report from the drop-down list. This list displays the following values:

- Client - Select if you need to print at the client location
- Server - Select if you need to print at the server location

Printer

Specify the printer to print the report. Alternatively, you can select the printer from the option list. The list displays all valid printers maintained in the system.

Click 'OK' button to generate the report. Click 'Exit' to return to the Reports Browser.

3.2.1 Contents of the Report

The parameters specified while generating the report are printed at the beginning of the report. Other content displayed in the report is as follows:

Header

The header displays the title of the report, branch, branch date and the user ID of the user who generated the report.

Field Name	Field Description
Branch Code	Indicates the Branch Code for Upload
Branch Name	Indicates the name of the branch for upload.
Interface Code	Indicates the Interface Code/Function ID

Field Name	Field Description
Interface Description	Indicates the description of the interface
Upload Start Date	Indicates the start date for upload
Upload End Date	Indicates the end date for upload
Upload File Name	Indicates the name of the physical file uploaded
Process Reference No	Indicates the associated process reference number
Status of Upload	Indicates the status for which records have to be fetched
Report Date/Time	Indicates the current application date and time
Report Extracted By	Indicates the user ID of the person generating the report
Key ID Structure	Indicates the field that form part of the key ID

Body of the Report

Field Name	Field Description
Key ID	Indicates the set of fields that would uniquely identify a record
Record Status	Indicates the status of the record (whether successful or failed)
Error Code	Indicates the error code that indicates why the particular record failed to upload
Error Description	Indicates the description of the error code

3.3 Customer Tax Payment Information

The 'Customer Tax Payment Information' report provides the details of tax paid by the customers. To invoke the screen, type 'IFRTXPM' 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 "Customer Tax Payment Information". The window contains the following fields and controls:

- Branch Code:
- Account No:
- Assessment Year:
- Period:

- From Date:
- To Date:
- Report Format:
- Report Output:
- Printer At:
- Printer:
- Buttons: Ok, Exit

Specify the following details:

Branch Code

You can generate this report for customers in a specific branch of the bank. Select the branch code from the option list.

Account Number

Specify the account number if you wish to get the details of tax payment made from a specific account.

Assessment Year

Specify the assessment year. The system will generate the tax payment details for the assessment year specified.

3.3.1 Contents of the Report

The parameters specified while generating the report are printed at the beginning of the report. Other content displayed in the report is as follows:

Header

The header displays the title of the report, branch, branch date and the user ID of the user who generated the report.

Body of the Report

Source	This is the source of tax payment
Customer No	This is the customer number of the customer who made the tax payment
Customer Name	This is the name of the customer who made the tax payment
Account No	This is the account number through which the tax was paid
Taxable Amount	This is the tax amount payable
Paid Amount	This is the tax amount paid
Payment Date	This is the date of payment of the tax
Tax Reference No	This is the reference number of the tax

4. Function ID Glossary

G

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