

Generic Interface
Oracle FLEXCUBE Universal Banking
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1. About this Manual

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.

1.1.1 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

1.1.2 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


1.1.3 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

1.1.4 Conventions used

The following conventions are used in this User Manual:

- Important information is preceded with the  symbol
- System/error/override messages are shown in the following manner:

This is a system message

1.1.5 Related documents

You may have to refer the other Oracle FLEXCUBE User Manuals as and when required.

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 External System(s) Details

You need to maintain the details of the external system (s) with which Oracle FLEXCUBE is interfacing using 'External Interface Maintenance' screen. You can invoke this screen by typing 'GWDEXSYS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot displays the 'External System - Detailed' configuration window. It is divided into several sections for data entry:

- External System:** Includes a text field for 'External System *' and a 'Description' field.
- Correlation Pattern:** Features a 'Request' dropdown menu currently set to 'Message ID'.
- Message Exchange Pattern:** Contains 'Request Message' (set to 'Input Only') and 'Response Message' (set to 'Full Screen') dropdowns. It also has checkboxes for 'XSD Validation Required' and 'Register Response Queue Message Id'.
- Queue:** Includes fields for 'Default Response Queue' and 'Dead Letter Queue', each with a help icon.
- External System Queues:** A table with two columns: 'In Queue *' and 'Response Queue'. The table currently has one row with empty fields.

The bottom status bar provides metadata and controls: 'Input By TEST12', 'Authorized By', 'Modification Number', 'Date Time', 'Authorized' (checkbox), 'Open' (checkbox), and a 'Cancel' button.

To maintain details of a new system choose New from the Actions Menu. The External Interface maintenance screen gets displayed without any details.

An external system that you have defined will become operational in Oracle FLEXCUBE only after it is authorized. A user bearing a different Login ID can authorize an external system definition record that you have created.

External System

You can provide the name and details of external system here.

External System

Specify a unique name to identify the external system.

The name that you give the system should contain a maximum of ten characters. It can be a combination of alphabet and numeric characters. You can follow your own convention for devising the code.

Description

Specify a brief description of the external system here. The description that you enter is for information purposes only.

Correlation Pattern

You can define a way in which the external system should correlate its request message with the response message.

Request

Select the type of correlation from the drop-down list. The options are:

- Message ID - You can choose Message ID of a request message as the Correlation ID in the response message.
- Correlation ID - You can choose Correlation ID of a request message and maintain it as the Correlation ID of the corresponding response message.

Message Exchange Pattern

You can maintain the pattern of message exchange here.

Request Message

Select the pattern of request message from the drop-down options provided. The options available are:

- Input only
- Full Screen

Response Message

Select the pattern of response message from the drop-down options provided. The options available are:

- Primary Screen
- Full Screen



If you select 'Full Screen' as the request message, the response message will also display 'Full Screen'. You can select 'Record Identification Msg' as the response message only if you select 'Input Only' in the request message.

XSD Validation Required

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

Queue

You can maintain the details of messages in queue here.

Default Response Queue

You can define a response queue for each of the In Queue's through which the External System will communicate with FLEXCUBE.

Specify a valid queue name as the Default Response Queue.

Dead Letter Queue

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



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

Register Response Queue Message ID

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

External System Queues

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

In Queue

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



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

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

Response Queue

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

2.2.1 Specifying File Transfer Protocol (FTP) Parameters

Click 'FTP' button in the 'External Interface Maintenance' screen to display 'FTP Parameters' screen.

The screenshot shows a dialog box titled "FTP Parameter". It contains the following fields and labels:

- External System* (with a red asterisk)
- IP Address
- Port
- User Name
- Password

At the bottom right of the dialog, there are two buttons: "Ok" and "Cancel".

You can specify the File Transfer Protocol (FTP) parameters here.

External System

Specify the external system name here.

IP Address

Specify the Internet Protocol Address of the server here.

Port

Specify the port details of the server here.

User Name

Specify the user name to login to the server here.

Password

Specify the password to login to the server here.

2.2.2 Viewing External System Details

You can view details of external Systems maintained in the system using 'External System Summary' screen. You can invoke this screen by typing 'GWSEXSYS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

The screenshot shows a web application window titled "External System - Summary". At the top, there are several filter fields: "Authorization Status" set to "Authorized", "Record Status" set to "Open", "External System" set to "MDB_QUEUE_RESF", and an empty "Dead Letter Queue" field. To the right of these fields are "Search", "Advanced Search", and "Reset" buttons. Below the filters is a pagination bar showing "Records per page 15", "First", "Previous", "1 Of 1", "Next", "Last", and "Go" buttons. A table with five columns is visible: "Authorization Status", "Record Status", "External System", "Default Response Queue", and "Dead Letter Queue". The table is currently empty. At the bottom, there are two legend boxes: "Authorization Status A - Authorized U - Unauthorized" and "Record Status C - Closed O - Open". An "Exit" button is located in the bottom right corner.

You can click 'Search' button to view all the object definition 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 external system defined from the dropdown list. The options are:

- Authorized
- Unauthorized

External System

Select the name of the external system from the option list.

Record Status

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

- C – Closed record
- O – Open record

Dead Letter Queue

Select the dead letter queue from the option list.

Default Response Queue

Select the default response queue name 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
- External System
- Dead Letter Queue
- Record Status
- Default Response Queue

2.2.2.1 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 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.

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.



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.

Maker ID

Specify the User ID which you want to keep as the default Maker ID of the transaction upload.



If you are configuring the user ID as authorized then system would authorize the transaction using maker ID.

Checker ID

Specify the User ID which you want to keep as the default authorizer ID or Checker ID of the transaction upload.

Uploaded Record Status

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

- Authorized
- Unauthorized



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



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.

2.4 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:

- Name ***: Text input field.
- Description**: Text input field.
- Type**: Radio buttons for Static and Dynamic.
- Static**: checkbox.
- Object Mapping**: Table with columns 'Object Name *' and 'Alias Name'.
- Field Mapping**: Table with columns 'Field Name *', 'Alias', 'Data Type', and 'Data Length'.
- Where Clause**, **Order By Clause**, **Group By Clause**: Text input fields with help icons.
- Having Clause**, **Hint**: Text input fields with help icons.
- View SQL**: Button.
- Footer**: 'Input By TEST12', 'Authorized By', 'Modification Number', Authorized, Open, and **Cancel** button.

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.



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.



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.



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 Type

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.

Hint

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

2.4.1 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 the 'Object Summary' application window. At the top, there are search filters for 'Authorization Status' and 'Record Status', each with a dropdown menu. Below these are input fields for 'Name', 'Description', 'Order By Clause', 'Group By Clause', and 'Having Clause', each with a search icon. A 'Search' button and an 'Advanced Search' button are located to the right of the input fields. Below the search filters is a pagination bar showing 'Records per page 15', 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go'. Below the pagination bar is a table header with columns 'Authorization Status', 'Record Status', 'Name', and 'Description'. At the bottom of the window, there are two legend boxes: 'Authorization Status A - Authorized U - Unauthorized' and 'Record Status C - Closed O - Open'. An 'Exit' button is located in the bottom right corner.

You can click 'Search' button to view all the object definition 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 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

2.4.1.1 Search Functionalities

The search functions available are:

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

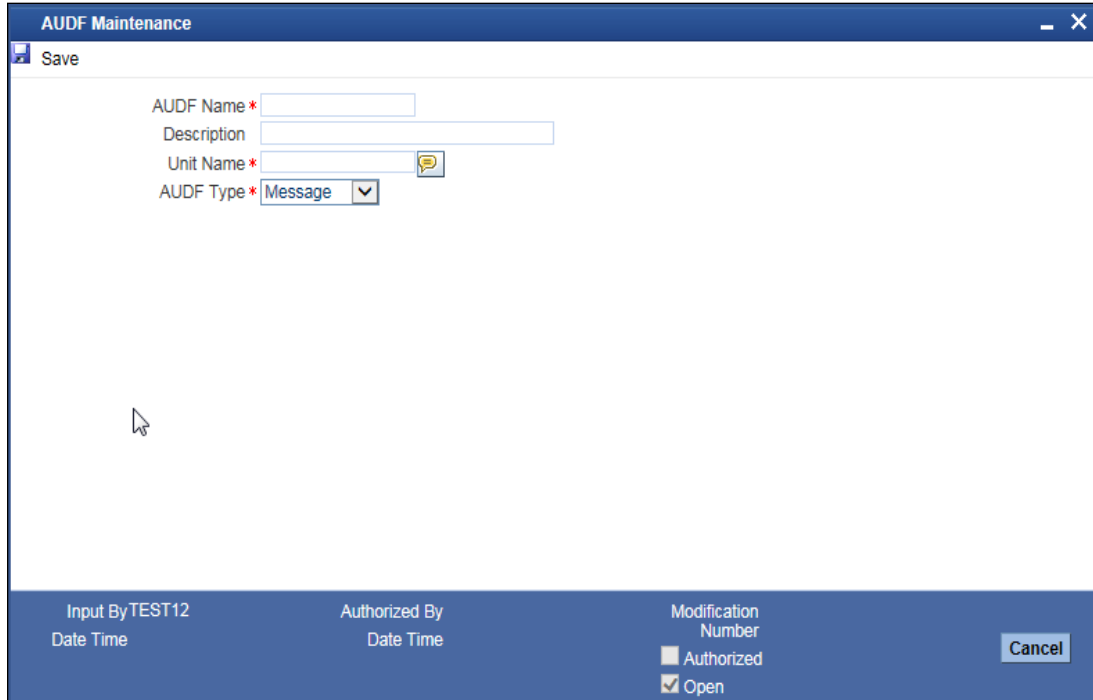
Reset - Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

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.

2.4.2 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 a window titled "AUDF Maintenance" with a "Save" button in the top left corner. The main area contains four input fields: "AUDF Name*" (required), "Description", "Unit Name*" (required), and "AUDF Type*" (required). The "AUDF Type*" field is a dropdown menu currently set to "Message". A mouse cursor is visible over the "Unit Name*" field. At the bottom of the window, there is a status bar with the following information: "Input By TEST12", "Authorized By", "Modification Number", "Date Time", "Date Time", "Authorized" (checkbox), "Open" (checkbox), and a "Cancel" button.

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

2.4.3 Viewing AUDF Summary Details

You can view AUDIF details maintained in the system using 'AUDIF 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 the 'AUDIF Summary' application window. At the top, there are search filters: 'Authorization Status' (dropdown), 'Record Status' (dropdown), 'AUDIF Name' (text input), and 'Description' (text input). Below these are 'Search', 'Advanced Search', and 'Reset' buttons. A pagination bar shows 'Records per page 15', 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go'. The main area is a table with columns: 'Authorization Status', 'Record Status', 'AUDIF Name', and 'Description'. The table is currently empty. At the bottom, there are two legend boxes: 'Authorization Status A - Authorized U - Unauthorized' and 'Record Status C - Closed O - Open'. An 'Exit' button is located in the bottom right corner.

You can click 'Search' button to view all the AUDIF 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 AUDIF you want to view the details from the drop-down list. The options are:

- Authorized
- Unauthorized

Record Status

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

- C – Closed
- O - Open

AUDIF Name

Select the name of the AUDIF 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

2.5 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 'GIDIFTDF' 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.

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 t 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/select the number of interface file processing executions per day from the drop-down.

This field is applicable only for incoming interface file process.

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.



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.

Conformation 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.

Conformation File Path

The path of confirmation file gets displayed here.

Conformation 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



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



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 'Fort Nightly, Monthly, Weekly, 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 'Fort Nightly, Monthly, Weekly, 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

Select the padding character for date field from the drop-down.

Number

Select the padding character for number field from the drop-down.

Text

Select the padding character for text field from the drop-down.



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.

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

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.

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

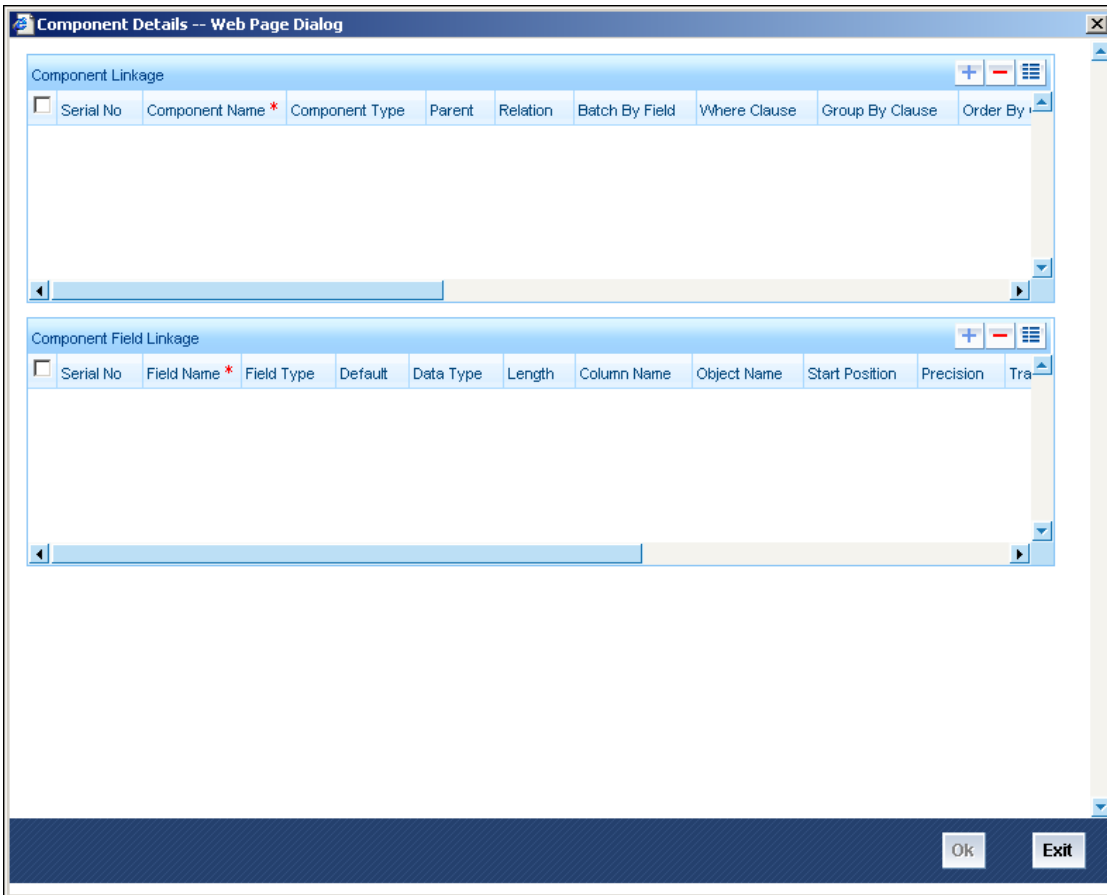
Specify the number of records of parallel process can be performed at a given time. This field gets enabled only if you select the parallel process type as 'Record based'.

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'.

2.5.1 Specifying Component Details

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



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

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

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

Derivation

Specify the derivation logic for the field.

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

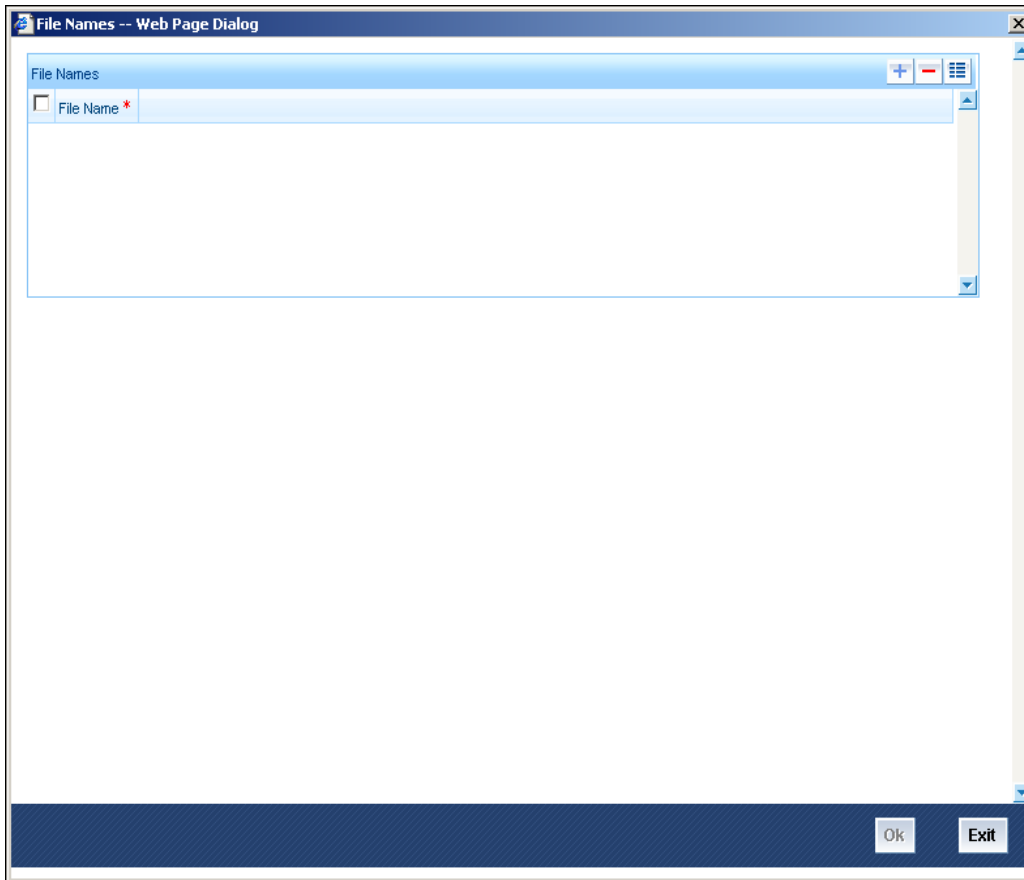
Specify the value that needs to be calculated after the field value is processed.

Post Field AUDF

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

2.5.2 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.

2.5.3 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.

You can click 'Search' button to view all the interface 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 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

2.5.3.1 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.

2.6 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.

2.6.1 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.

2.6.2 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, fn_upload_table_to_type, fn_upload 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.

2.6.3 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.

2.6.4 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.

2.6.5 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.

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 updates the process number field of master upload table.

During data processing stage, system could check maximum number of process and submit job for each process number. System would wait till all the processes are completed. If any process is resulted in error then the interface would be considered as error.

2.6.6 **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.

The screenshot shows a window titled "CRC Maintenance" with a "Save" button in the top left. The main area contains three input fields: "CRC Name *" (with an asterisk indicating it's required), "Description", and "Invocation Stub". The "Invocation Stub" field has a dropdown menu with two options: "Declare" and "L_abs_file_path". At the bottom of the window, there is a status bar with the following information: "Input By TEST12", "Authorized By", and "Modification Number". There are also two checkboxes: "Authorized" (unchecked) and "Open" (checked). A "Cancel" button is located in the bottom right corner of the status bar.

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.

2.6.7 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 displays the 'CRC Summary' application window. At the top, there are search filters for 'Authorization Status' and 'Record Status', each with a dropdown menu. Below these are input fields for 'CRC Name' and 'Description'. To the right of these fields are 'Search', 'Advanced Search', and 'Reset' buttons. A pagination bar indicates 'Records per page 15', 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go'. Below the pagination bar is a table header with columns: 'Authorization Status', 'Record Status', 'CRC Name', and 'Description'. The table body is currently empty. At the bottom of the window, there are legend boxes for 'Authorization Status' (A - Authorized, U - Unauthorized) and 'Record Status' (C - Closed, O - Open), along with an 'Exit' button.

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

2.6.7.1 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.

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

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)

2.6.9 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 the 'File Transfer Summary' application window. At the top, there are search filters: 'Authorization Status' (dropdown), 'Record Status' (dropdown), 'File Transfer Name' (text input), and 'External System' (text input). Below these are 'Search' and 'Advanced Search' buttons, and a 'Reset' button. A pagination bar shows 'Records per page' set to 15, with 'First', 'Previous', '1 Of 1', 'Next', and 'Last' buttons, and a 'Go' button. Below the pagination is a table header with columns: 'Authorization Status', 'Record Status', 'File Transfer Name', 'External System', and 'File Name'. The table body is currently empty. At the bottom, there are two legend boxes: 'Authorization Status' with 'A - Authorized' and 'U - Unauthorized', and 'Record Status' with 'C - Closed' and 'O - Open'. An 'Exit' button is located in the bottom right corner.

You can click 'Search' button to view all the file transaction 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 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

2.6.9.1 Search Functionalities

The search functions available are:

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

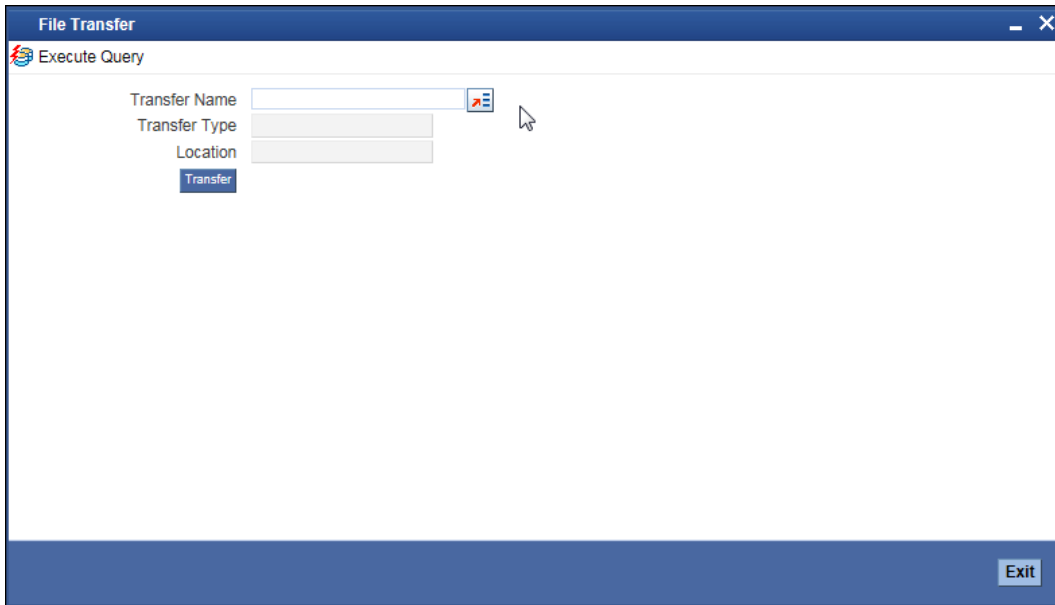
Reset - Click **Reset** to empty the values in the criteria fields, so that you may begin a new search.

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.

2.6.10 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.



You can specify the file details to transfer the same.

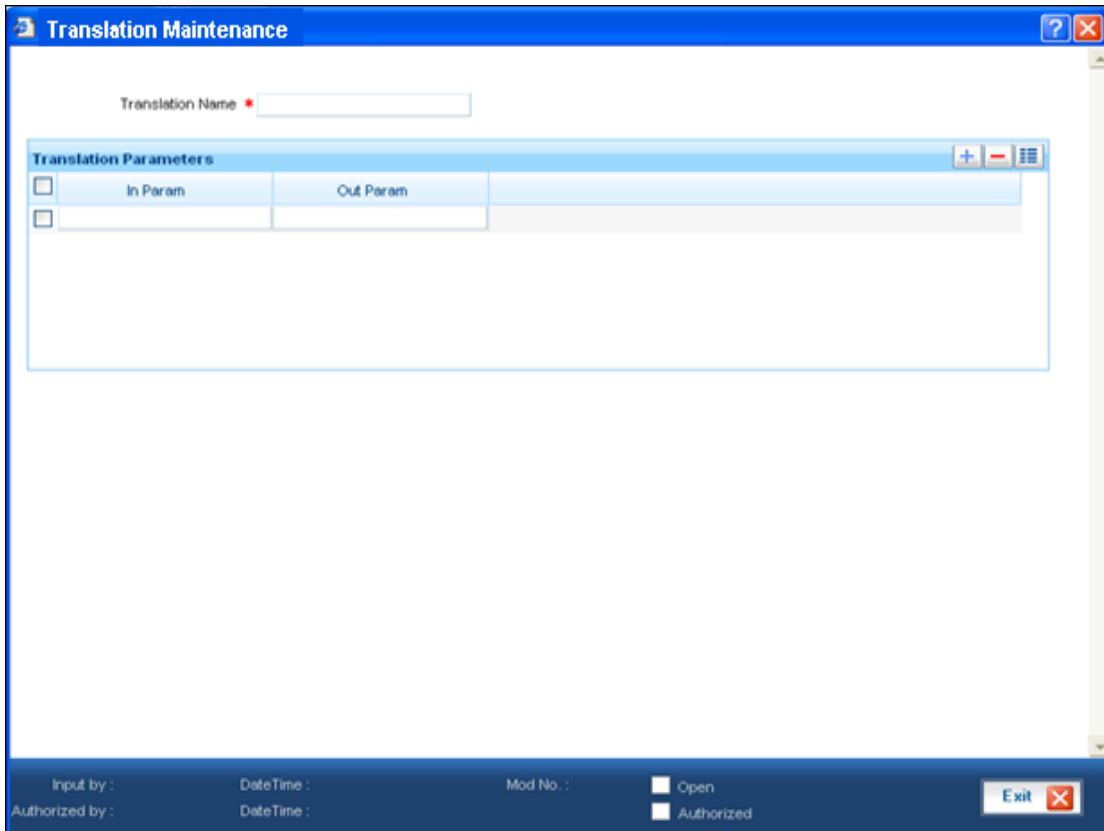
Transfer Name

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

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

2.6.11 Maintaining Translation Details

You can maintain translation details required between the external system values to Oracle FLEXCUBE Values and vice Versa in the 'Translation Maintenance' screen. You can invoke this screen by typing " in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.



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.

2.6.12 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.

You can click 'Search' button to view all the translation 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 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

2.6.12.1 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.

2.6.13 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.

The screenshot shows the 'FTP File Log' application window. At the top, there are search criteria fields: 'Transfer Name', 'User Id', 'Status', 'File Name', and 'Transferred On'. Below these fields are three buttons: 'Search', 'Advanced Search', and 'Reset'. A pagination bar indicates 'Records per page 15', 'First', 'Previous', '1 Of 1', 'Next', 'Last', and 'Go'. Below the pagination bar is a table header with columns: 'Transfer Name', 'File Name', 'User Id', 'Transferred On', and 'Status'. The table body is currently empty. In the bottom right corner, there is an 'Exit' 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

2.6.13.1 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.

2.6.14 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

2.6.14.1 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.

2.7 Invoking of 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 'GIDIFPRS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow 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.

External System

Specify the external system from/to where the details have to be picked up or delivered respectively.

Interface Type

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

- Incoming
- Outgoing

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:

- FP - Populating the Upload tables using the file data.
- DP- Populating the Base tables from the Upload tables.
- AL-This is will trigger 'FP' and 'DP' processes one after another.
- RT-This is Retry operation the previous process that failed is triggered.
- RE-This will rerun the 'DP' process for error records.

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)

2.7.1 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.

2.7.2 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 WIP 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 based on the processed file mask 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.

2.8 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.

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

2.9 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

2.9.1 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.



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

2.9.2 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.

2.10 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



Generic Interface
[May] [2022]
Version 11.11.0.0.0

Oracle Financial Services Software Limited
Oracle Park
Off Western Express Highway
Goregaon (East)
Mumbai, Maharashtra 400 063
India

Worldwide Inquiries:
Phone: +91 22 6718 3000
Fax: +91 22 6718 3001
www.oracle.com/financialservices/

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