

Generic Interface User Guide

# **Oracle FLEXCUBE Universal Banking**

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Generic Interface User Guide  
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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	Description
Chapter 1	<i>About this Manual</i> gives information on the intended audience. It also lists the various chapters covered in this User Manual
Chapter 2	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>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.

This chapter contains the following sections:

- [Section 2.2, "Maintaining GI Parameter "](#)
- [Section 2.3, "GI Object "](#)
- [Section 2.4, "Interface Definition Details"](#)
- [Section 2.5, "Generating Dynamic Interface Component "](#)
- [Section 2.6, "GI Process"](#)
- [Section 2.7, "Tracking the Status of Interface Processing"](#)
- [Section 2.8, "Integrating GI with EOD"](#)
- [Section 2.9, "Global Variables and mask Attributes"](#)

### 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' screen with the following details:

- Parameters** (Title)
- Unlock** and **Enter Query** (Buttons)
- Holiday Treatment** (Section)
  - Holiday Treatment**:
  - Next Run Date**:  Previous Working Day,  Next Working Day
  - Purging Days**: 3
- Incoming** (Section)
  - Uploaded Record Status**: Authorized
  - Bad File Path**: (Empty)
  - Log File Path**: (Empty)
- Outgoing** (Section)
  - Archival Required**:
  - File Writing Process**: Oracle
- Audit** and **Exit** (Buttons)

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 GI Object**

This section contains the following topics:

- [Section 2.3.1, "Defining GI Object"](#)
- [Section 2.3.2, "Viewing Summary Details of Object"](#)
- [Section 2.3.3, "Maintaining AUDF \(ASCII User Defined Function\) Details"](#)
- [Section 2.3.4, "Viewing AUDF Summary Details"](#)

### **2.3.1 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.

**Object Definition**

New Enter Query

Customer Name \*

Description

Static

Static Query

Type  Static  Dynamic

**Object Mapping**

Object Name *	Alias Name
No data to display.	

Page 1 (0 of 0 items) |< < 1 > >|

**Object Field Mapping**

Field Name *	Alias Name	Data Type	Data Length
--------------	------------	-----------	-------------

View SQL Audit Exit

You can maintain the objective definition for generic interface here.

### Customer 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. You can modify 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. You can modify 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.

### 2.3.2 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.

Object Summary

Search Advanced Search Reset Records per page 15

Search (Case Sensitive)

Authorization Status Record Status Customer Name  
Description Order By Group By  
Having Where

Search Results Lock Columns 0

<input type="checkbox"/>	Authorization Status	Record Status	Customer Name	Description	Order By	Group By	Having	Where
No data to display.								

Page 1 Of 1 |< < 1 > >|

Exit

You can click 'Search' button to view all the object definition records of your bank. 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

#### Customer Name

Select the name of the customer 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
- Customer Name
- Description
- Order By
- Group By
- Having
- Where

### 2.3.2.1 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.

### 2.3.3 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. At the top, there is a title bar with the text 'AUDF Maintenance' and window control icons. Below the title bar, there is a toolbar with 'New' and 'Enter Query' buttons. The main area contains a form with four input fields: 'AUDF Name \*', 'Description', 'Unit Name \*', and 'AUDF Type \*'. The 'AUDF Type \*' field has a dropdown menu with 'Message' selected. At the bottom right of the window, there are three buttons: 'Audit', 'Exit', and 'Save'.

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

## 2.3.4 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 the 'AUDF Summary' application window. At the top, there are search options: 'Search', 'Advanced Search', 'Reset', and 'Clear All'. A 'Records per page' dropdown is set to 15. Below this is a search filter section titled 'Search (Case Sensitive)' with dropdown menus for 'Authorization Status', 'Record Status', and 'AUDF Name', and a search input field for 'Description'. The 'Search Results' section shows a table with columns: 'Authorization Status', 'Record Status', 'AUDF Name', 'Description', 'AUDF Type', and 'Unit Name'. The table is currently empty, displaying 'No data to display.'. At the bottom of the table, there is a pagination control showing 'Page 1 Of 1' and navigation arrows. An 'Exit' button is located at the bottom right of the window.

You can click 'Search' button to view all the AUDF records of your bank. 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.

**AUDF TYPE**

Select the type of the AUDF from the option list.

**Unit Name**

Select the Unit Name from the 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
- AUDF Type
- Unit Name

## 2.4 **Interface Definition Details**

This section contains the following topics:

- [Section 2.4.1, "Specifying Interface Definition Details"](#)
- [Section 2.4.2, "Specifying Component Details"](#)
- [Section 2.4.3, "Specifying Incoming File Names"](#)
- [Section 2.4.4, "Viewing Interface Definition Summary"](#)

## 2.4.1 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 Code

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

### 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

### External System

Specify the external system with which Oracle FLEXCUBE is interfacing.

### File Directory

Specify the directory of the files. All the incoming/outgoing files will be copied to the path specified for this directory. The path of the directory specified here should end with 'ready' folder.

Data Controller (Bank) can use the OS features to manage and control access to the data files.



## **File Mask**

Specify the file mask for the outgoing interface file.

### **2.4.1.1 Main Tab**

#### **Frequency Details**

##### **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.

**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**

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
- Close

**On Override**

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

- Reject
- Continue
- Skip

**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

**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
- 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)

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.

---

**Duplicate Content Check Required**

Check this box to indicate that the system should disallow a file with same content to be processed more than once.

If a file with the same content is uploaded twice or more and this box is checked, the system displays an appropriate error message.

**Outgoing Interface**

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

**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.

**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.

## **2.4.1.2 Format Details Tab**

### **Data Alignment**

#### **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.

---

### **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.

---

### **Format Type**

#### **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'.

#### **Delimiting Character**

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

#### **Date Format**

Specify the date format for the interface file.

### **2.4.1.3 Preferences Tab**

#### **Preferences**

##### **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 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 Directory**

The directory of CRC file gets displayed here. However, you can modify it. If the file directory is modified, the path for this directory should end with 'ready' folder.

##### **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 Mask**

The path of confirmation file mask gets displayed here.

##### **Confirmation File Directory**

The directory of confirmation file gets displayed here. However you can modify it. If the file directory is modified, the path for this directory should end with 'ready' folder.

##### **Data Log Required**

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

##### **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.

##### **Trigger Type**

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. Even if the triggering type is mentioned as System, you can manually trigger the interface whenever required through Interface triggering screen.

---

**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.

**Commit/Fetch Frequency**

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

**Duplication File Check Required for Current Date**

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

**Parallel Process**

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'.

## 2.4.2 Specifying Component Details

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

Component Details

Component Linkage

<input type="checkbox"/>	Serial Number *	Component Name *	Component Type	Parent	Relation	Batch By Field	Where Clause	Pre Component AUDF
No data to display.								

Page 1 (0 of 0 items) |< < 1 > >|

Component Field Linkage

<input type="checkbox"/>	Serial Number *	Field Name *	Field Type	Default	Data Type *	Length *	Column Name	Object Name	Start Posit
No data to display.									

Page 1 (0 of 0 items) |< < 1 > >|

Exit Save

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

**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 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 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 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.

**Group By Clause**

Specify the group by clause for the component.

**Order By Clause**

Specify the order by clause for the component.

**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 AUDF**

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

**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.

---

### 2.4.3 Specifying Incoming File Names

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

The screenshot shows a 'File Names' dialog box. The dialog box has a title bar with the text 'File Names' and a close button 'X'. Inside the dialog, there is a search bar with a dropdown arrow and the text 'File Name'. Below the search bar, it says 'No data to display.' At the bottom of the dialog, there is a pagination control showing 'Page 1 (0 of 0 items)' and navigation arrows. At the bottom right of the main window, there are 'Exit' and 'Save' buttons.

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.

## 2.4.4 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.

**Interface Definition Summary**

Search Advanced Search Reset Clear All Records per page 15

Search (Case Sensitive)

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

Search Results Lock Columns 0

Authorization Status	Record Status	Branch Code	External System	Interface Code	Interface Type
No data to display.					

Page 1 Of 1

Exit

You can click 'Search' button to view all the interface records of your bank. 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

#### **2.4.4.1 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.

## **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.

This section contains the following topics::

- [Section 2.5.1, "Processing Outgoing Interface"](#)
- [Section 2.5.2, "Processing Incoming Interface"](#)
- [Section 2.5.3, "Processing File Transfer to Upload Tables"](#)
- [Section 2.5.4, "Processing Data Process from Upload Table to Base Table"](#)
- [Section 2.5.5, "Parallel Processing of Generic Interface "](#)
- [Section 2.5.6, "Maintaining CRC Algorithm Details"](#)
- [Section 2.5.7, "Viewing CRC Summary Details"](#)
- [Section 2.5.8, "Maintaining Translation Details "](#)
- [Section 2.5.9, "Viewing Translation Summary Details"](#)
- [Section 2.5.10, "Viewing Interface Run chart"](#)

### **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.

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.

### **2.5.6 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.

The screenshot shows a web-based application window titled "CRC Maintenance". At the top left, there are two buttons: "New" and "Enter Query". The main content area is a form with three input fields: "CRC Name \*", "Description", and "Invocation Stub". The "Invocation Stub" field is the largest and occupies most of the form's width. At the bottom right of the window, there are two buttons: "Audit" and "Exit".

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

CRC Summary



You can click 'Search' button to view all the CRC records of your bank. 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.

## 2.5.8 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' application window. At the top, there are 'New' and 'Enter Query' buttons. Below that is a 'Table Name' field with a red asterisk. The main area is titled 'Translate Parameter' and contains two columns: 'In Parameter' and 'Out Parameter'. Both columns have dropdown menus with a checkmark icon. Below the columns, it says 'No data to display.' and 'Page 1 (0 of 0 items)'. At the bottom right, there are buttons for 'Audit', 'Exit', and 'Save'.

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.

## 2.5.9 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 displays the 'Translation Summary' application window. At the top, there is a search bar with a magnifying glass icon and the text 'Search (Case Sensitive)'. To the right of the search bar are buttons for 'Search', 'Advanced Search', 'Reset', and 'Clear All'. Further right is a 'Records per page' dropdown menu set to '15'. Below the search bar are three filter dropdown menus: 'Authorization Status', 'Record Status', and 'Table Name'. A 'Search Results' section follows, containing a table with three columns: 'Authorization Status', 'Record Status', and 'Table Name'. The table is currently empty, displaying 'No data to display.'. Below the table is a pagination control showing 'Page 1 Of 1' and navigation arrows. In the bottom right corner of the application window, there is an 'Exit' button.

You can click 'Search' button to view all the translation records of your bank. 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

### 2.5.9.1 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.

## 2.5.10 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. You can 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

### 2.5.10.1 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.

## 2.6 GI Process

This section contains the following topics:

- [Section 2.6.1, "Invoking GI Process"](#)
- [Section 2.6.2, "Uploading a File for Incoming Interface Processing"](#)
- [Section 2.6.3, "Viewing Scheduled Upload Logs"](#)
- [Section 2.6.4, "Archiving Process"](#)
- [Section 2.6.5, "Folder Structure"](#)

### 2.6.1 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 '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.

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

### **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 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.

### **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.

### **File Upload**

Click **File Upload** to upload the files from the interface folder.

There are two options for the file upload:

- To upload all the files, select the check box next to Pickup All files in the interface folder,
- To upload only the selected files, provide the details of the files in the text filed, next to Specific File to be picked up.

## **2.6.2 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.

The screenshot shows the 'Interface Trigger' web interface. At the top left is a 'New' button. The main area is divided into two columns. The left column contains four input fields: 'Branch Code \*', 'Interface Code \*', 'External System \*', and 'Interface Type'. The right column contains 'Physical File Name' and 'Filemask' fields. Below these, there is a 'File Upload' button, a toggle for 'Pickup All files in the interface folder', and a 'Compression Details' field. At the bottom left, there are fields for 'File Name', 'Status' (with 'U' selected), and 'Process Code' (with 'Process All' selected), along with a 'Process' button. An 'Exit' button is located at the bottom right of the interface.

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 (GIDIFTDF).

---

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)

### 2.6.3 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 Uploads Log**

Search Advanced Search Reset Clear All Records per page 15

Search (Case Sensitive)

User ID Branch Code Function

Status Movement

Search Results Lock Columns 0

Scheduled Reference	User ID	Branch Code	Module Code	LBL_UPLOAD_CODE	Function	Status Movement
No data to display.						

Page 1 Of 1

Exit

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

## 2.6.4 Archiving Process

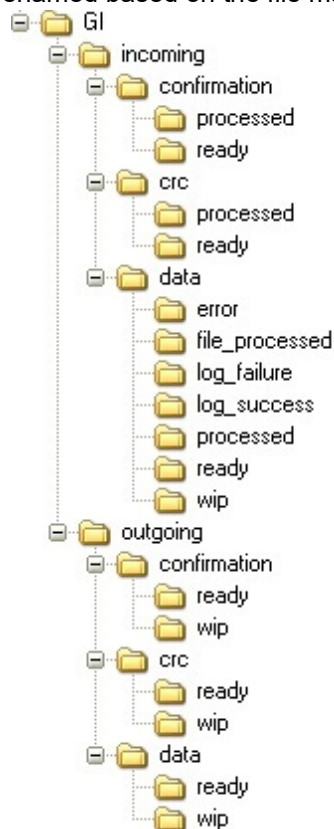
When you select the interface data for archiving while maintaining the parameters, the data gets archived. The upload table data and file log data is moved to archive tables. If parameter is set to delete then data is deleted from the upload/log tables without archiving.

## 2.6.5 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.

**File Log**

Search Advanced Search Reset Clear All Records per page 15

Recommended Fields(Atleast input one field with minimum character(s) as mentioned in bracket)

Interface Code(1)

Optional Fields

Branch Code External System Status File Name Process Code Upload File Name Process Reference Number

Search Results Lock Columns 0

<input type="checkbox"/>	Branch Code	External System	Interface Code	Status	File Name	User ID	Process Code	Process Reference Number	Start Date Stamp	End Date
No data to display.										

Page 1 Of 1 |< >|

Exit

You can click 'Search' button to view all the interface transaction records of your bank. You can 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.

### **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
- 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.

This section contains the following topics:

- [Section 2.8.1, "Processing Unprocessed Interface"](#)
- [Section 2.8.2, "Processing 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 Global Variables and mask Attributes

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

This section contains the following topics:

- [Section 2.9.1, "Global variables"](#)
- [Section 2.9.2, "Mask Attributes"](#)

### 2.9.1 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.

## 2.9.2 **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. Function ID Glossary

### G

GIDAUDFM .....2-7  
GIDCRCFN .....2-25  
GIDFILOG .....2-36  
GIDIFPRS .....2-30  
GIDIFTDF .....2-10  
GIDOBDEF .....2-4  
GIDPARAM .....2-1

GIDTRANS ..... 2-27  
GISAUDFM ..... 2-8  
GISCRCFN ..... 2-26  
GISFILOG ..... 2-35  
GISIFTDF ..... 2-21  
GISOBDEF ..... 2-6  
GISRNCHT ..... 2-29  
GISSULOG ..... 2-33  
GISTRANS ..... 2-28