

Oracle FLEXCUBE Universal Banking® 12.0 Generic Interface Configuration Guide

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1 Preface

This document Generic Interface Configuration Guide explains the steps to create incoming or outgoing ASCII Generic Interface in FLEXCUBE UBS.

1.1 Audience

This Generic Interface Configuration Guide is intended for FLEXCUBE Application Developers/Users who require to do the following tasks:

- Create Incoming ASCII upload interface using GI framework
- Create Outgoing ASCII handoff interface using GI framework

1.2 Related documents

For more information on Interfaces, see these resources:

- *FCUBS-FD01-01-01-Development Overview Guide*
- *FCUBS-FD04-01-01-Interface Getting started*
- *FCUBS-FD04-03-01-Upload Adapter Development Guide*

1.3 Conventions

The following text conventions are used in this document:

Convention Meaning

- | | |
|-----------------|---|
| boldface | Boldface type indicates graphical user interface elements (for example, menus and menu items, buttons, tabs, dialog controls), including options that you select. |
| <i>italic</i> | italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. |
| moonscape | Monospace type indicates language and syntax elements, directory and file names, URLs, text that appears on the screen, or text that you enter. |

2 Introduction

2.1 How to use this Guide

- [Chapter 2, "Introduction"](#)
This is an introduction section
- [Chapter 3, "Getting Started"](#)
This section discusses GI
- [Chapter 4, "Generic Interface Configuration Overview "](#)
This section describes the GI functioning.

3 Generic Interface - Getting started

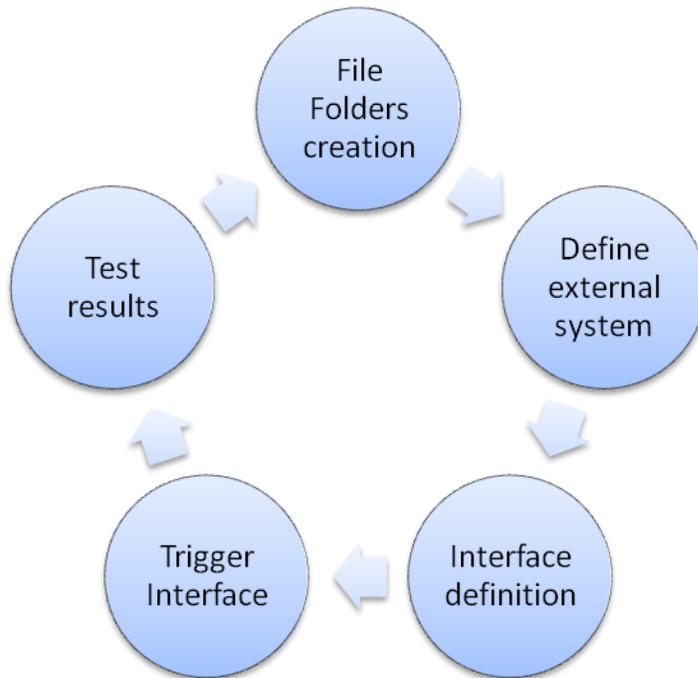
Generic Interface framework is used to define “Interface code” that acts as an entry point to upload data into FLEXCUBE UBS or handoff data from FLEXCUBE.

There are two types of GI.

- Incoming - ASCII file data that needs to be uploaded into FLEXCUBE UBS
- Outgoing - FLEXCUBE UBS data to be created in ASCII file

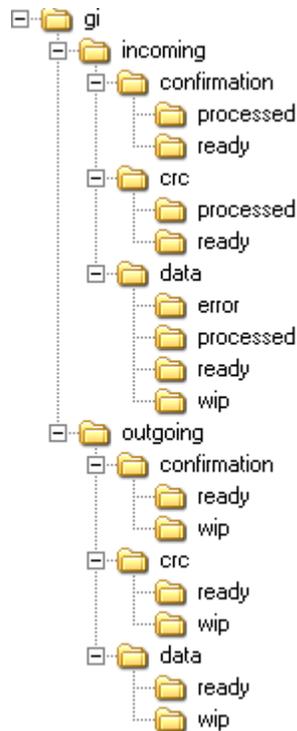
4 Generic Interface Configuration overview

This section describes the overview of the Generic Interface Configuration.



4.1 File Folders Creation

Create following folder structure in the FLEXCUBE UBS Application server.



4.1.1 Outgoing

Outgoing the file writing process takes place in the WIP folder and on successful completion of the writing process the file is moved to the Ready folder. The name of the file will be based on the File mask maintained in the Interface Definition

4.1.2 Incoming

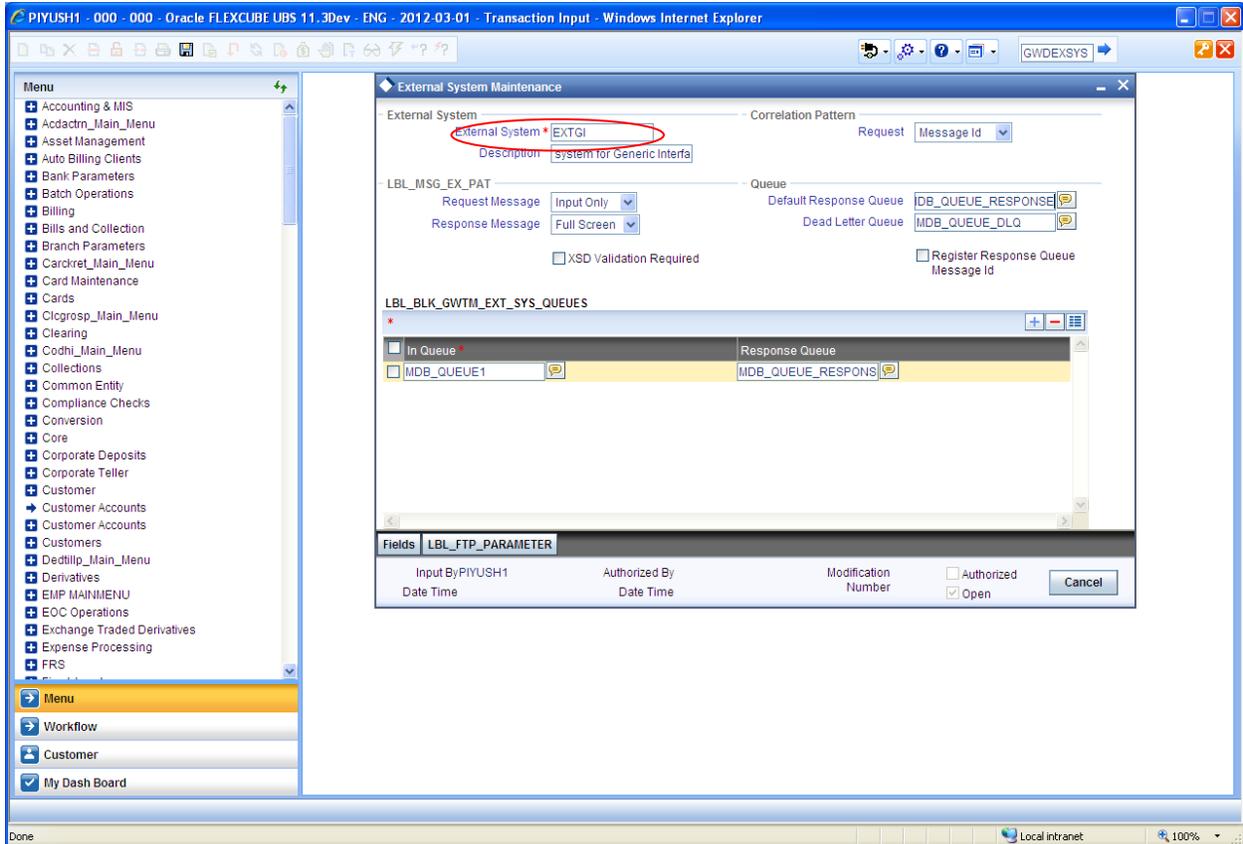
Incoming file should be placed in the ready folder when it is ready for upload. When the Interface is triggered, after successful file validation the file, the file is moved to the WIP folder and the Interface processing unit is triggered by the GI Processing framework. If the file validation fails the file is moved to the Error folder. On successful processing of the file the file is renamed based on the processed file mask attribute maintained in the interface definition and moved to the processed folder.

4.2 Creation of External system

You need to maintain the details of the external system with which Oracle FLEXCUBE is interfacing using 'External Interface Maintenance' screen. Function id for invoking the screen is 'GWDEXSYS'

- External system maintenance

Note: Refer GI.pdf FLEXCUBE UBS User manual for the meaning of each item in below screen



- Specifying File Transfer Protocol (FTP) Parameters

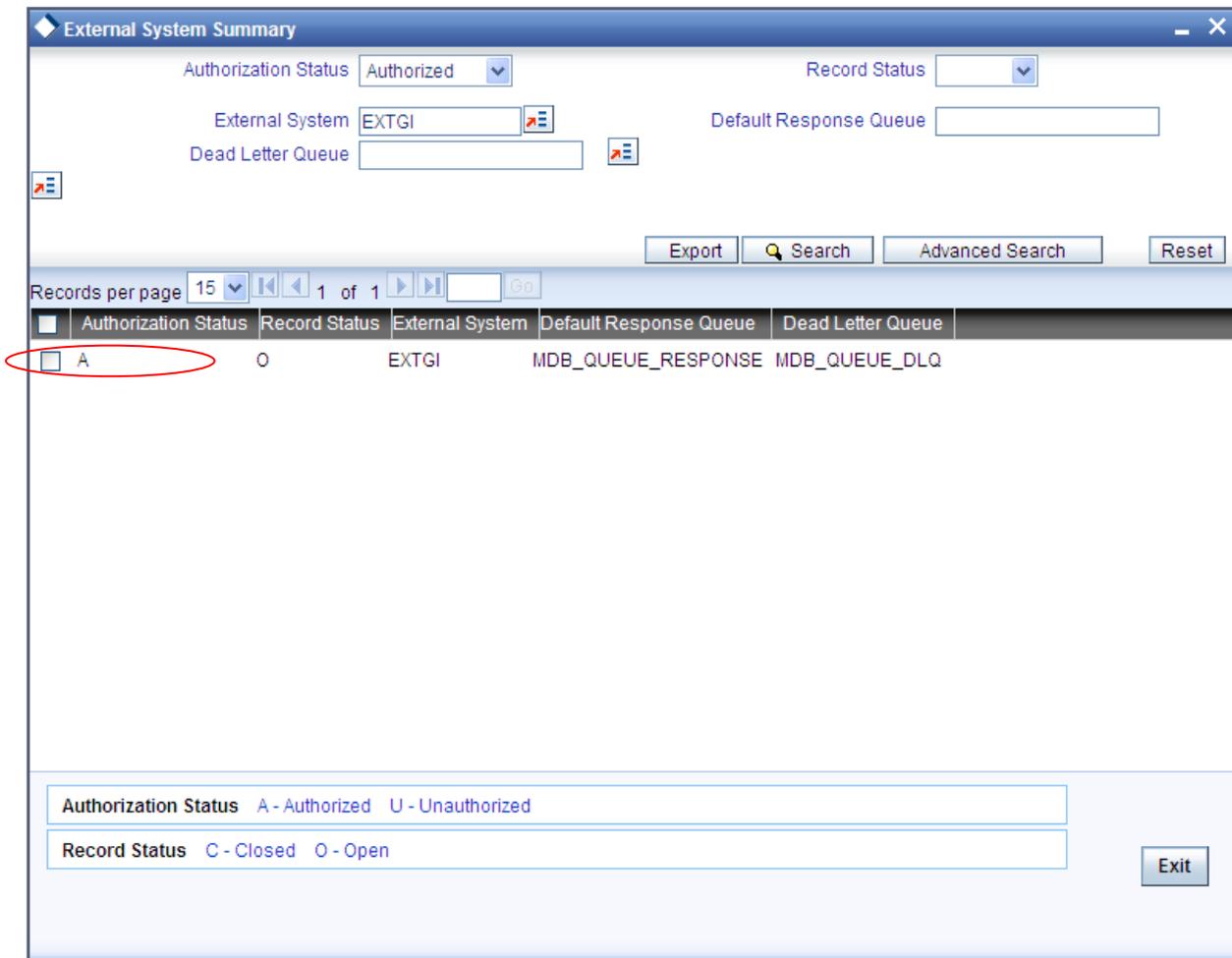
The screenshot shows a configuration window titled "LBL_FTP_PARAMETER". The window contains the following fields:

- External System * EXTGI (highlighted with a red circle)
- LBL_IP_ADDRESS
- LBL_PORT
- User Name
- Password

At the bottom right of the window, there are two buttons: "Ok" and "Exit".

- 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'.



4.3 Creation of Interface definition

4.3.1 Outgoing Interface

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'.

Branch Code

Specify the code of the branch to which the interface belongs. Here it is 000

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.

Here the interface type is Outgoing.

File Mask

Specify the file mask for the outgoing interface file. The name with which the file will be generated.

External System

Specify the external system with which Oracle FLEXCUBE is interfacing. Here the system is EXTGI the one created earlier.

Format Type

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

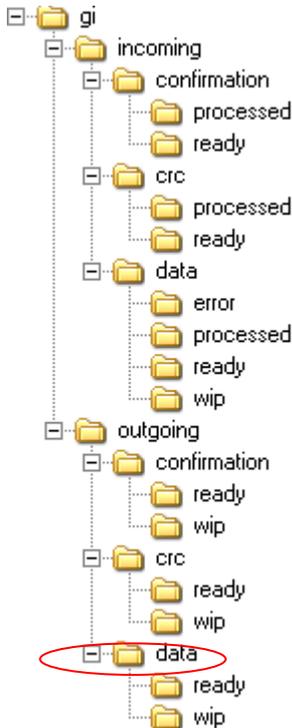
- Fixed - Select this option if the file data has to be in fixed width.
- Delimited - Select this option if the file data has to be in delimited format.

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.

Example, gi/outgoing/ data (as mentioned in below picture)



In case of GI Outgoing the file writing process takes place in the WIP folder and on successful completion of the writing process, the file is moved to the Ready folder. The name of the file will be based on the File mask maintained in the Interface Definition. Here it will be 'OUT'.

Data Log Required

Check this box to indicate if the confirmation details are required to be logged in 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. Here the code is **OUTER1**

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.

Here its manual type. It can be triggered manually whenever required.

Frequency Type

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

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

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 files execution from the drop-down list. The options available are:

January-December

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.

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

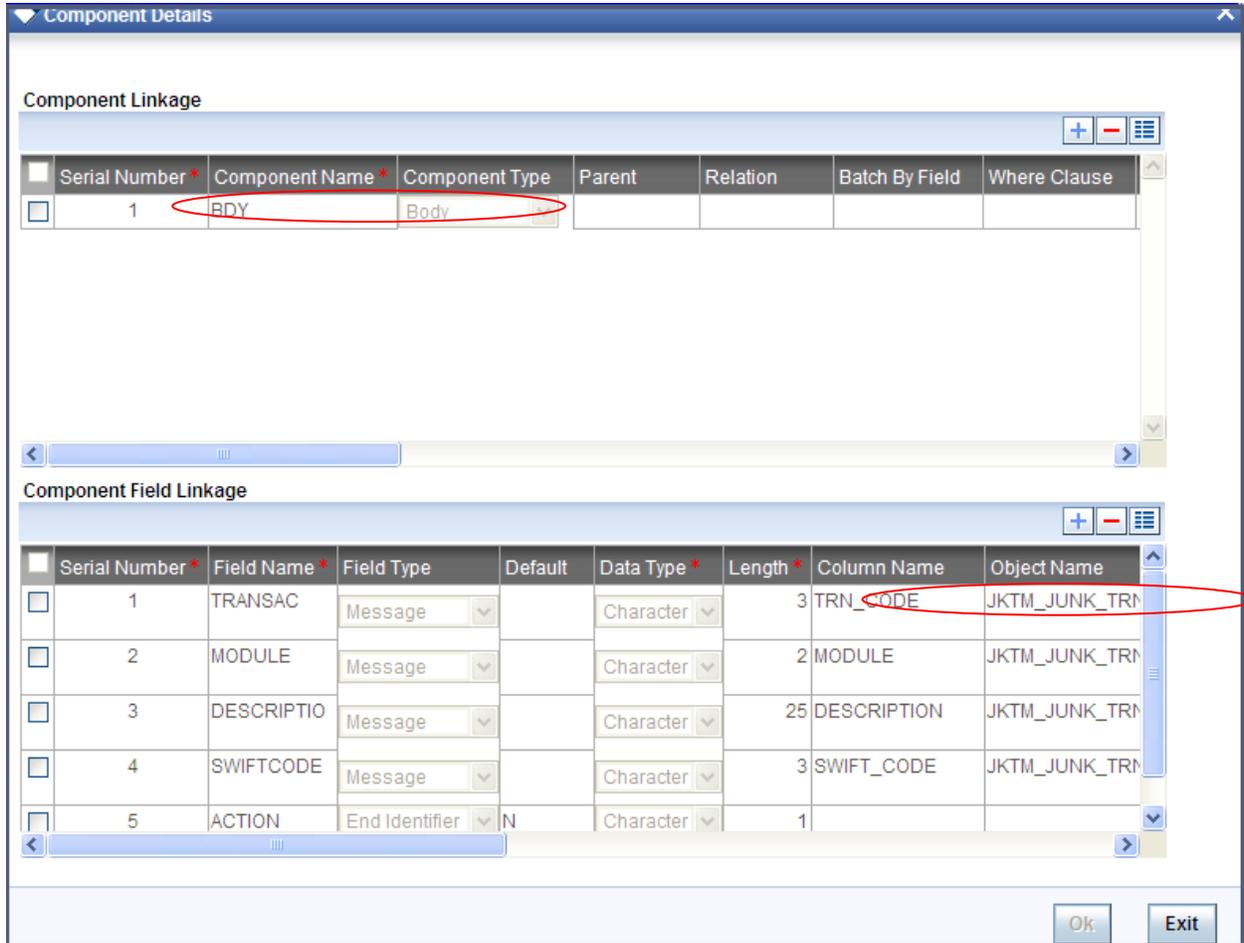
add additional functionality required at the message level.

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.

- **Specifying Component Details**

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



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. Here the name is BDY.

Component Type

This field indicates the component type of the file, following are the possible values of component type.

- Header
- Body
- Footer

- Batch Header
- Batch Footer
- Batch Body

Here the type is **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

Post 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.

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 i.e the data to be fetched in the file.

Serial Number

Specify the order of fields here.

Field Name

Specify the field name here, that will be created for the interface.

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. From the data source.

Object Name

Specify the object name from which the field should be derived. Name of the table for which data is to be written in the flat file. Here the table name is "JKTM_JUNK_TRNCODE"

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.

4.3.2 Incoming

The screenshot shows the 'Interface Definition' window with the following configuration:

- Branch Code: 000
- Interface Type: Incoming (circled in red)
- External System: EXTGI
- Format Type: Fixed
- Interface Code: INCOME
- File Path: /home/fcubs/gilog/gi/incoming/data
- Delimiting Character: (empty)
- File Mask: (empty)
- Commit/Fetch Frequency: 500
- When To Run: (empty)
- CRC Algorithm: (empty)
- Date Format: YYYYMMDD
- Trigger Type: Manual
- CRC File Mask: (empty)
- No Of Executions/Day: 1
- Confirmation File Mask: (empty)
- CRC File Path: (empty)
- Confirmation File Path: (empty)
- Justification: Date (Left), Number (Right), Text (Left)
- Padding Character: Date (*), Number (\$), Text (*)
- Frequency Type: Daily
- Week Day: (empty)
- Month: (empty)
- Date: (empty)
- Last Run Date: 2012-03-01
- Next Run Date: 2012-03-01
- Pre Message: (empty)
- Post Message: (empty)
- Pre Message AUDF: (empty)
- Post Message AUDF: (empty)
- Incoming: Function Id (JKDTRNCD), Processed File Mask, Default Action (New), On Override (Continue), Outgoing Interface, Suppress Start Reference (checked), Incoming File Mask (Exact File Name), Log Output
- Parallel process: Parallel Process Required (unchecked), Parallel process, No Of Records, No Of Parallel Process

Component Details: Incoming File Names

Input By: PIYUSH1, Authorized By: PIYUSHB, Modification Number: 1, Authorized (checked), Open (checked)

Date Time: 2012-03-01 18:15:11, Date Time: 2012-03-01 18:16:04

Exit button

Branch Code

Specify the code of the branch to which the interface belongs. Here it is 000

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.

Here the interface type is INCOMING.

File Mask

Specify the file mask for the outgoing interface file.

External System

Specify the external system with which Oracle FLEXCUBE is interfacing. Here the system is EXTGI the one created earlier.

Format Type

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

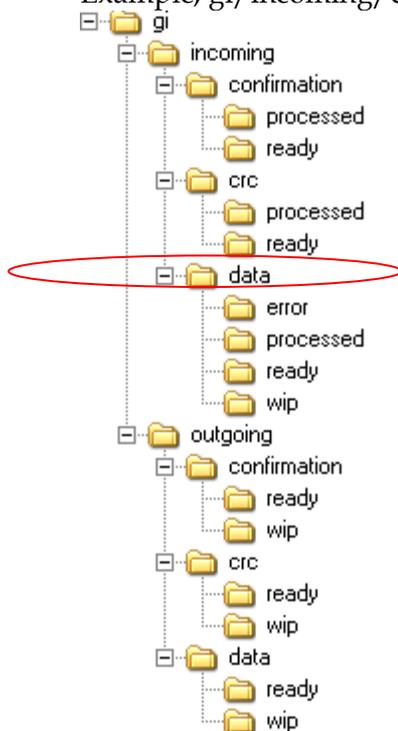
- Fixed - Select this option if the file data has to be in fixed width.
- Delimited - Select this option if the file data has to be in delimited format.

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.

Example, gi/incoming/data (as mentioned in below picture)



In case of GI Incoming the Incoming file should be placed in the ready folder when it is ready for upload. When the Interface is triggered, after successful file validation the file, the

file is moved to the WIP folder and the Interface processing unit is triggered by the GI Processing framework. If the file validation fails the file is moved to the Error folder. On successful processing of the file the file is renamed based on the processed file mask attribute maintained in the interface definition and moved to the processed folder.

Data Log Required

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

Commit/Fetch Frequency

Specify the number of transactions 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. Here the code is **INCOME**

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.

Here its manual type. It can be triggered manually whenever required.

Frequency Type

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

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

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-December

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.

Pre Message

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

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

Post Message 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. Here the function id is **JKDTRNCD**

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

Here the action is NEW

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.

- Specifying Component Details

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

Component Linkage

Serial Number *	Component Name *	Component Type	Parent	Relation	Batch By Field	Where Clause
1	BDY	Body				

Component Field Linkage

Serial Number *	Field Name *	Field Type	Default	Data Type *	Length *	Column Name	Object Name
1	TRANSAC	Message		Character		TRN_CODE	JKTM_JUNK_TRM
2	MODULE	Message		Character	2	MODULE	JKTM_JUNK_TRM
3	DESCRIPTIO	Message		Character	25	DESCRIPTION	JKTM_JUNK_TRM
4	SWIFTCODE	Message		Character	3	SWIFT_CODE	JKTM_JUNK_TRM
5	ACTION	End Identifier	N	Character	1		

Ok Exit

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. Here the name is BDY.

Component Type

This field indicates the component type of the file, following are the possible values of component type.

- Header
- Body

- Footer
- Batch Header
- Batch Footer
- Batch Body

Here the type is **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

You can use this to add any additional functionality required at the component level
Specify the AUDF that has to be executed after the component is processed, if any.

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 i.e the data to be fetched in the file.

Serial Number

Specify the order of fields here.

Field Name

Specify the field name here, that will be created for the interface.

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. From the data source.

Object Name

Specify the object name from which the field should be derived. Name of the table for which data is to be written in the flat file. Here the table name is "JKTM_JUNK_TRNCODE"

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

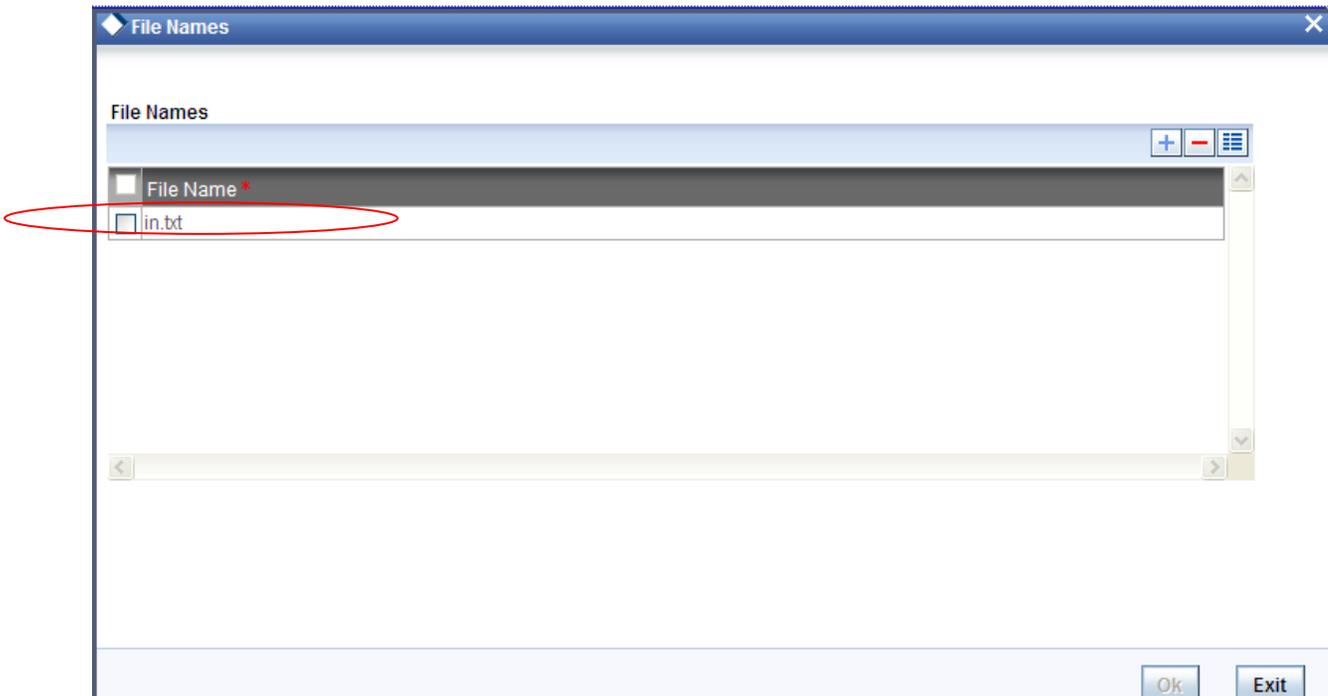
Specify the value that needs to be calculated after the field value is processed.

Post Field AUDF

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

- Specifying Incoming File Names

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



File Names

The incoming file names are maintained here.

File Name

Specify the incoming interface file name here.

4.4 Trigger Interface

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'

4.4.1 Outgoing

The screenshot shows the 'Interface Trigger' application window. The main window has a title bar with a diamond icon and the text 'Interface Trigger'. Below the title bar, there are several input fields with labels and values: 'Branch Code * 000', 'Interface Code * OUTER1', 'External System * EXTGI', 'Interface 0', 'File Name', 'Status W', and 'Process Code' with a dropdown menu set to 'File Processing'. A 'Process' button is located below these fields. An 'Information Message' dialog box is overlaid on the main window, containing the text 'Interface Processing Triggered Successfully. Check Status in Log.' and an 'Ok' button. The dialog box is circled in red. At the bottom of the main window, there are fields for 'Input By', 'Authorized By', and 'Modification Number', along with checkboxes for 'Authorized' and 'Open', and an 'Exit' 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. Here the external system is EXTGI

Interface Type

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

- Incoming
- Outgoing

Here it's O i.e. 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 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)

Now the file is generated in the path as mentioned in the interface definition.

4.4.2 Incoming

The screenshot shows the 'Interface Trigger' application window. The configuration fields are as follows:

- Branch Code * 000
- Interface Code * INCOME
- External System * EXTGI
- Interface I
- File Name in.txt
- Status W
- Process Code Process All

A 'Process' button is located below the Process Code field. An 'Information Message' dialog box is overlaid on the main window, displaying the message: 'Interface Processing Triggered Successfully. Check Status in Log.' The message is circled in red. An 'Ok' button is present in the dialog box.

At the bottom of the application window, there are fields for 'Input By', 'Authorized By', and 'Modification Number', each with a 'Date Time' field. There are also checkboxes for 'Authorized' and 'Open', and an 'Exit' button.

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. Here the external system is EXTGI

Interface Type

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

- Incoming
- Outgoing

Here its I i.e. Incoming

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)

It's Process All so that it will first initiate the FP and then DP.

If successfully the process is triggered it will update the data in the file to the table as defined in the interface details.(i.e. data from **in.txt** to **JKTM_JUNK_TRNCODE**)

4.5 Test results

4.5.1 Outgoing

In the specified path location check for the outgoing file generated with the name specified in the interface definition screen.

4.5.2 **Incoming**

Ensure the upload table is populated with records from incoming file



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