Oracle FLEXCUBE Universal Banking® 12.0
Generic Interface Configuration Guide

Release 1.0

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ORACLE
FINANCIAL SERVICES

Contents

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.
italic	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

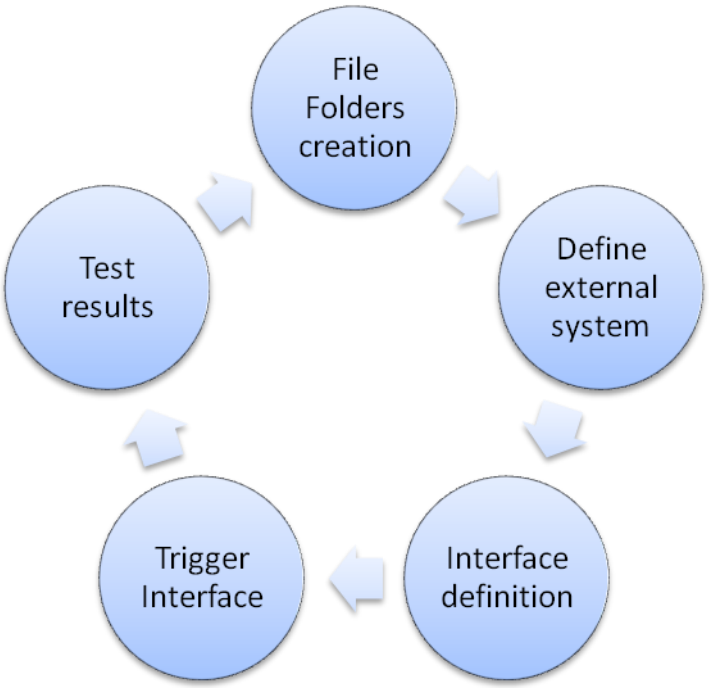
Generic Interface framework is used to define "Interface code" that acts as an entry point to upload data into FLEXCUBE UBS or handoff data from FLEXCUBE.

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

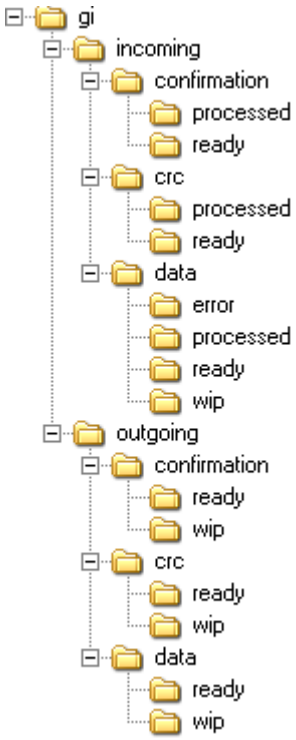
4 Generic Interface Configuration overview

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

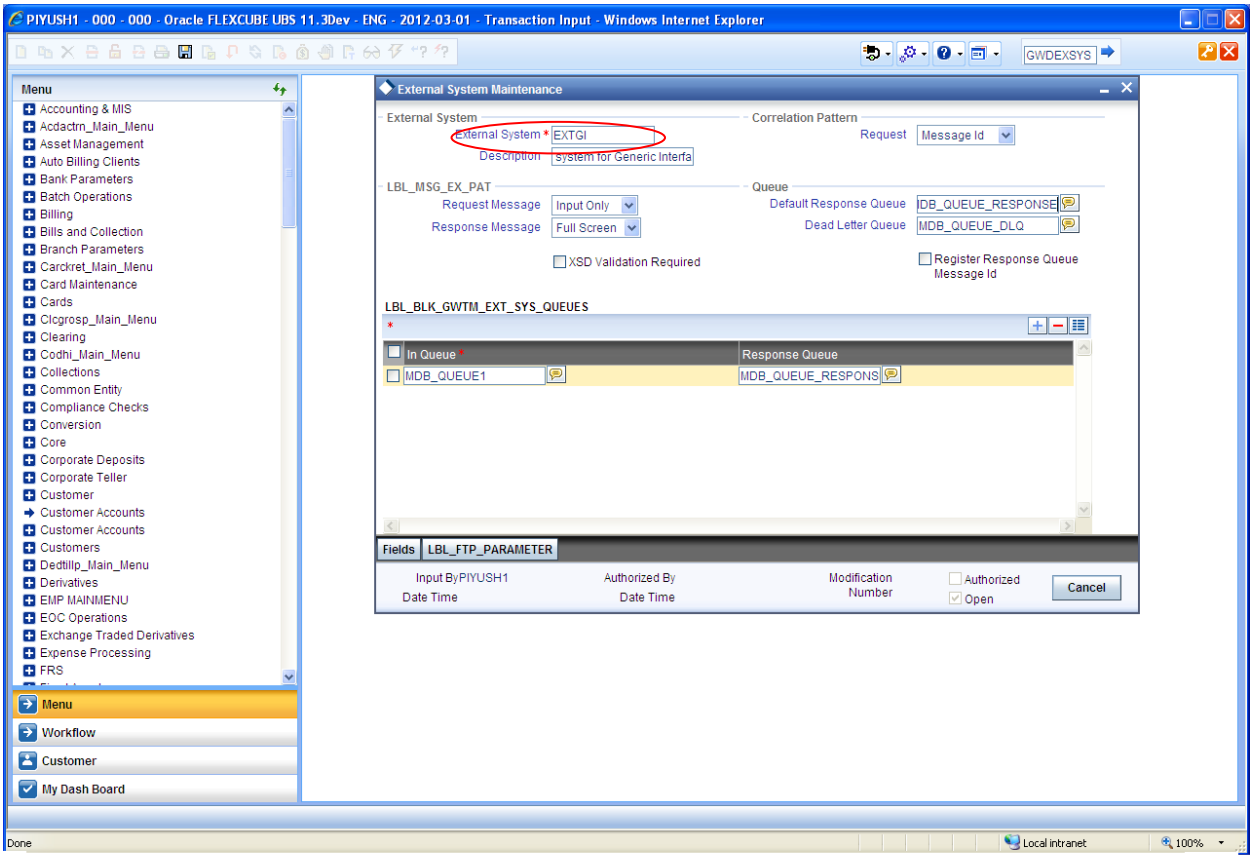
Incoming file should be placed in the ready folder when it is ready for upload. When the Interface is triggered, after successful file validation the file, the file is moved to the WIP folder and the Interface processing unit is triggered by the GI Processing framework. If the file validation fails the 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

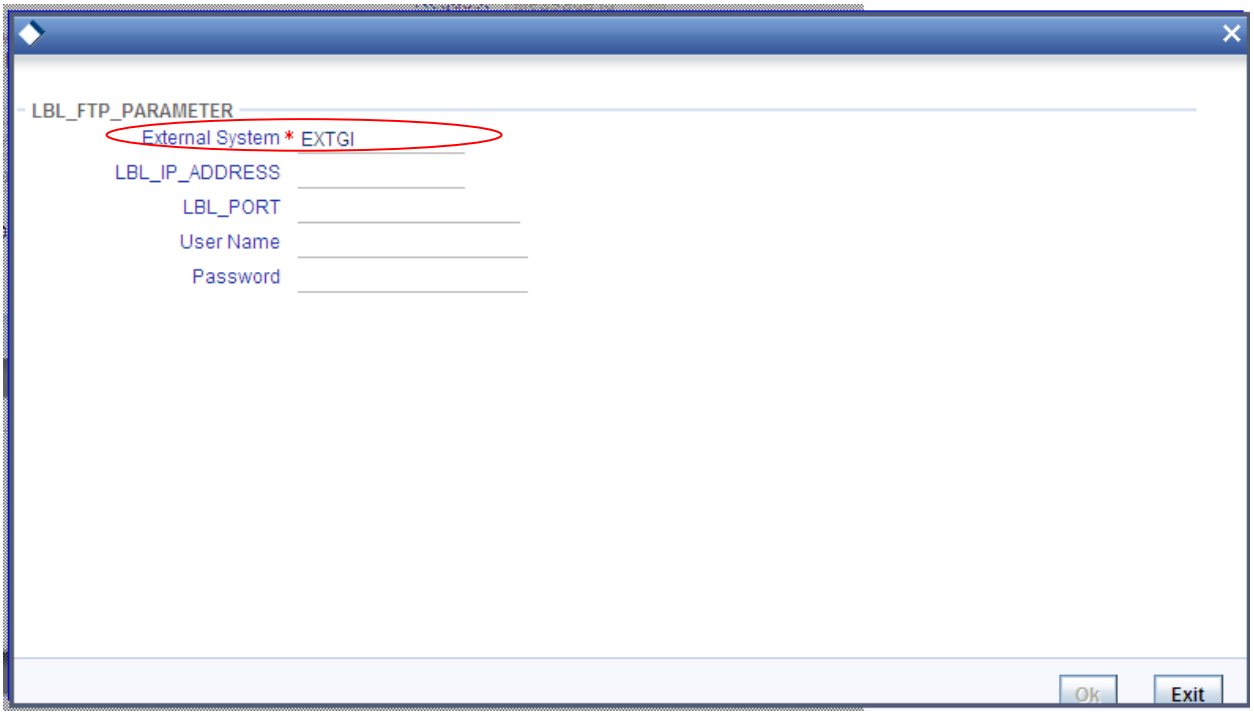
You need to maintain the details of the external system with which Oracle FLEXCUBE is interfacing using 'External Interface Maintenance' screen. Function id for invoking the screen is 'GWDEXSYS'

- External system maintenance

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

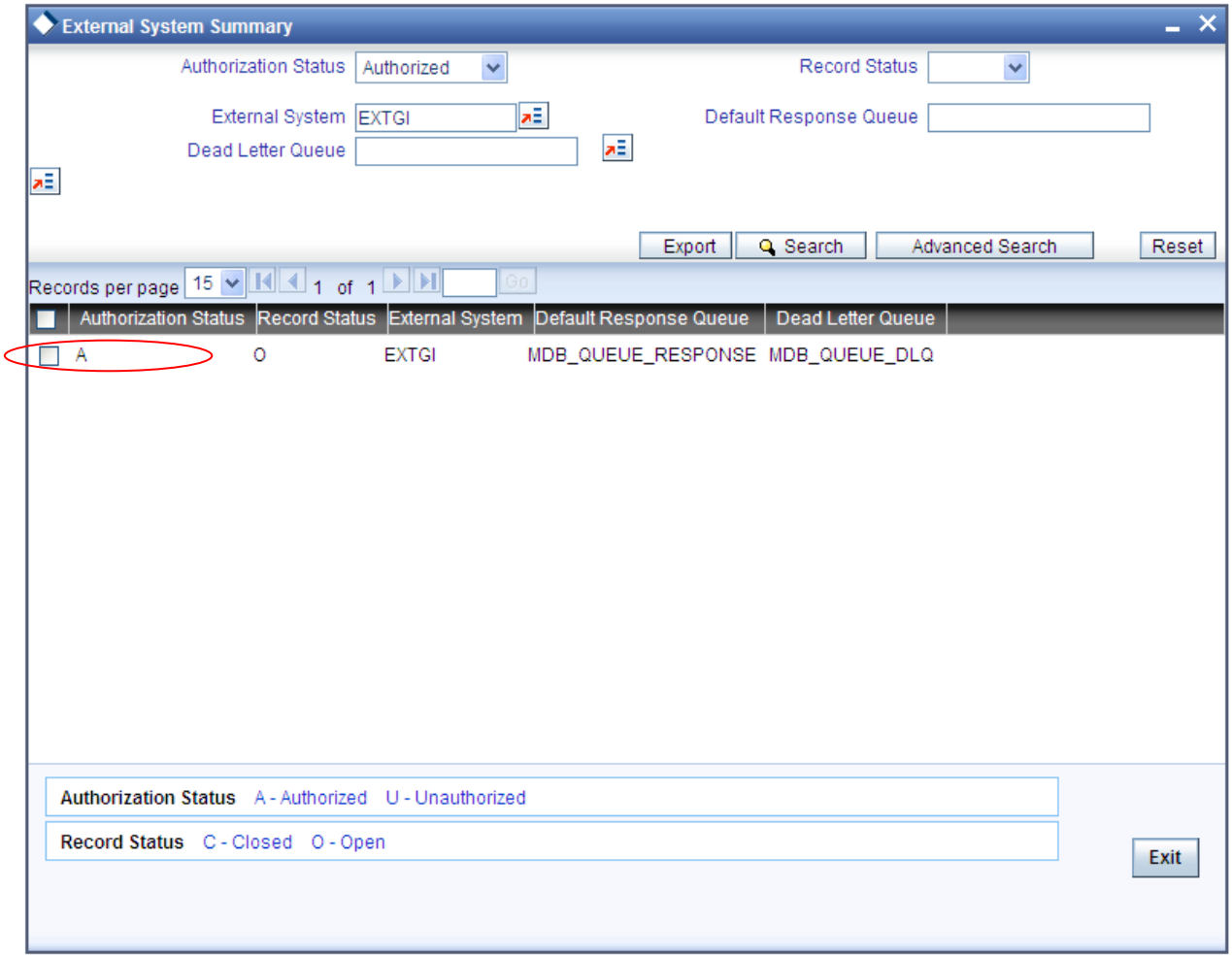


- Specifying File Transfer Protocol (FTP) Parameters



- Viewing External System Details

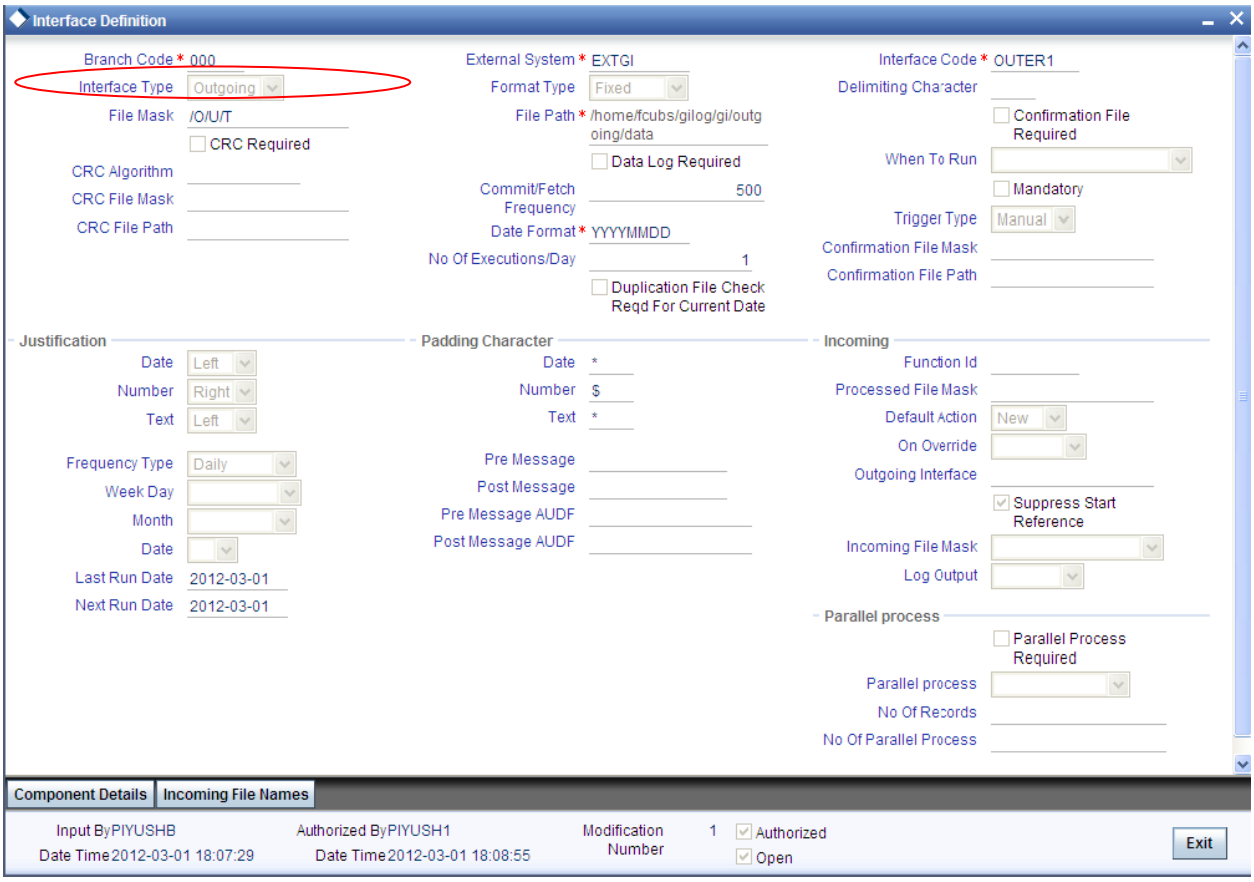
You can view details of external Systems maintained in the system using 'External System Summary' screen**.** You can invoke this screen by typing '**GWSEXSYS'** .



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.

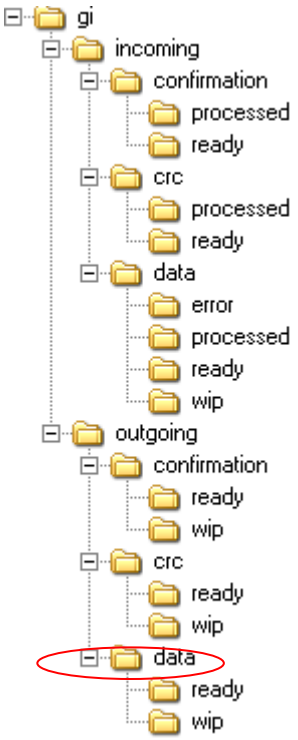
External System
Specify the external system with which Oracle FLEXCUBE is interfacing. Here the system is EXTGI the one created earlier.

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 t in logged file.

Commit/Fetch Frequency
Specify the number of transaction committed or fetched at a given point of time.

Date Format
Specify the date format for the interface file.

No of Executions Day
If you select frequency type as 'Daily', specify/select the number of interface file processing executions per day from the drop-down.
This field is applicable only for incoming interface file process.

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

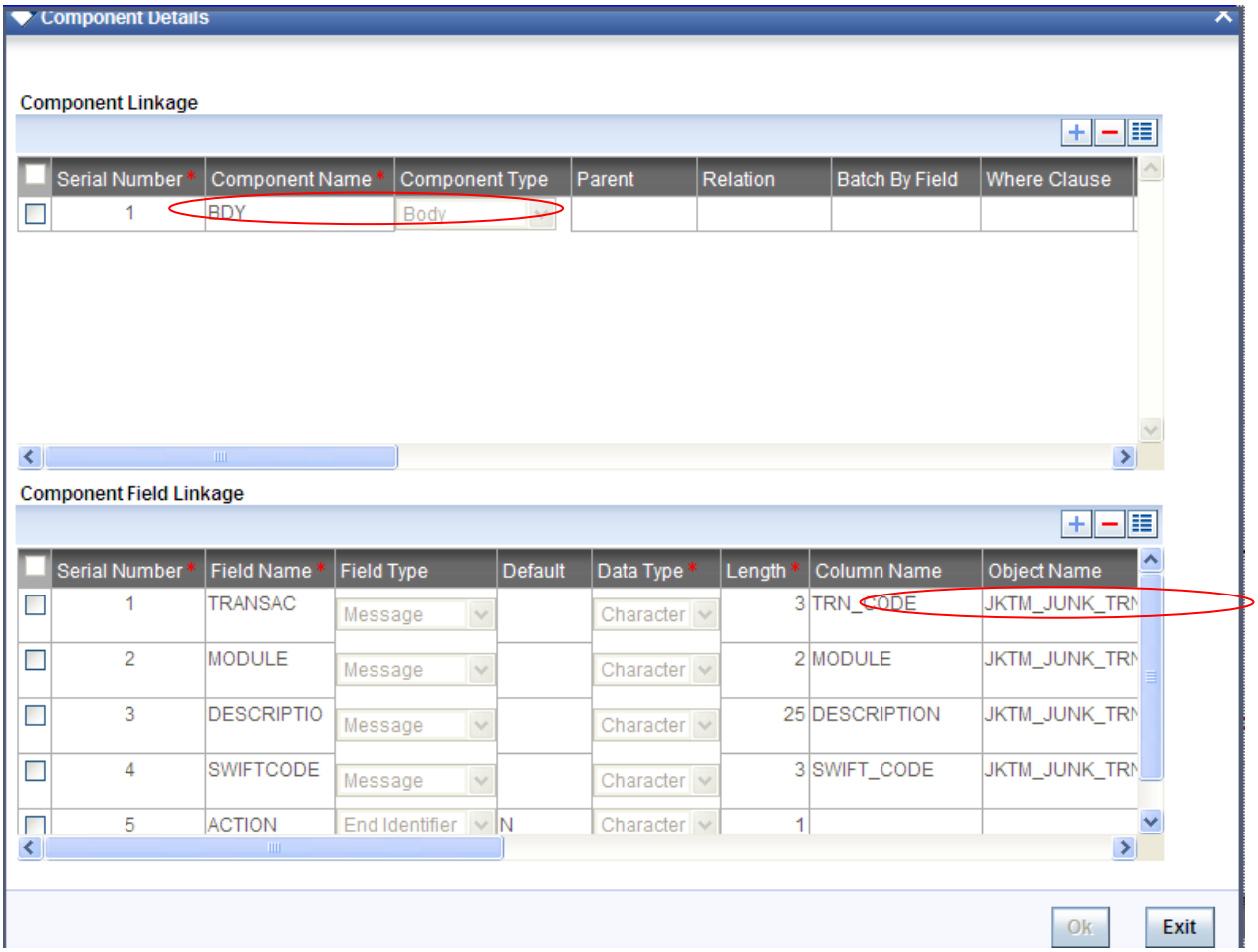
Pre Message
Specify the value that should be calculated before triggering the interface in the predefined format.

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.

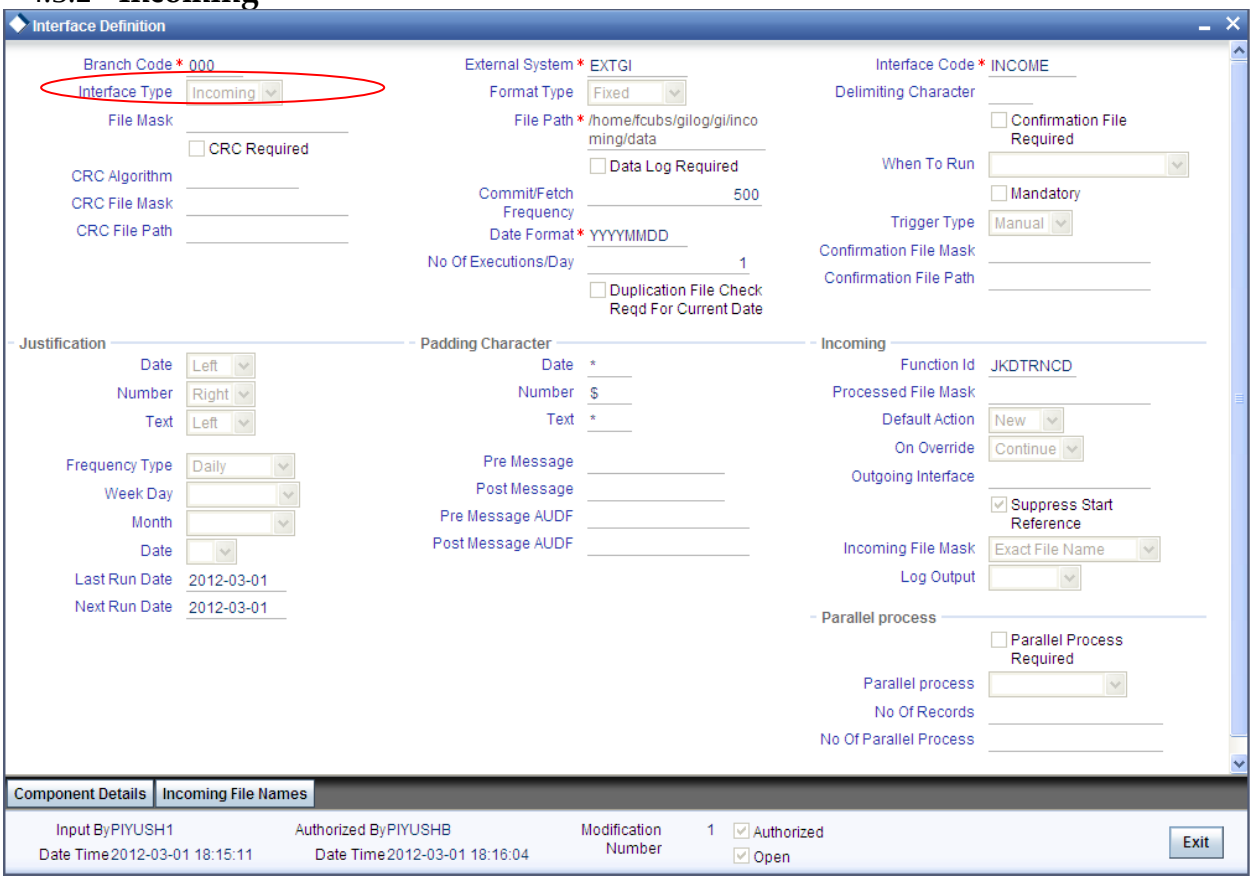
Pre Field
Specify the value that needs to be calculated before the field value is processed.

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



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.

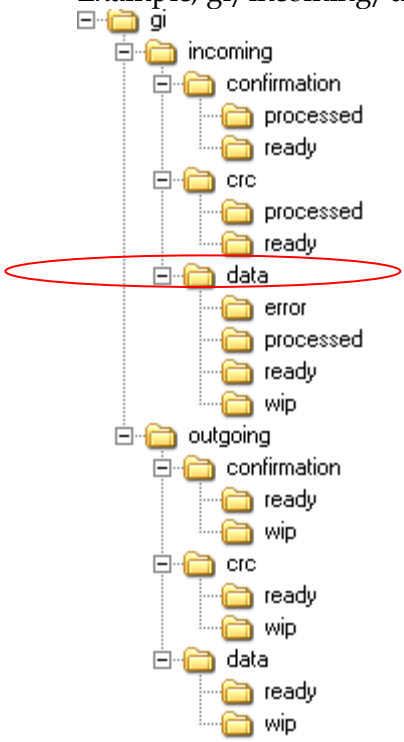
External System
Specify the external system with which Oracle FLEXCUBE is interfacing. Here the system is EXTGI the one created earlier.

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 it 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 t in logged file.

Commit/Fetch Frequency
Specify the number of transaction committed or fetched at a given point of time.

Date Format
Specify the date format for the interface file.

No of Executions Day
If you select frequency type as 'Daily', specify/select the number of interface file processing executions per day from the drop-down.
This field is applicable only for incoming interface file process.

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

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Select an appropriate option to indicate how the interface should be triggered. The options available are:
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Select the frequency type for interface file processing from the following drop-down options:
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- Fort Nightly
- Monthly
- Quarterly
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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:
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- 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

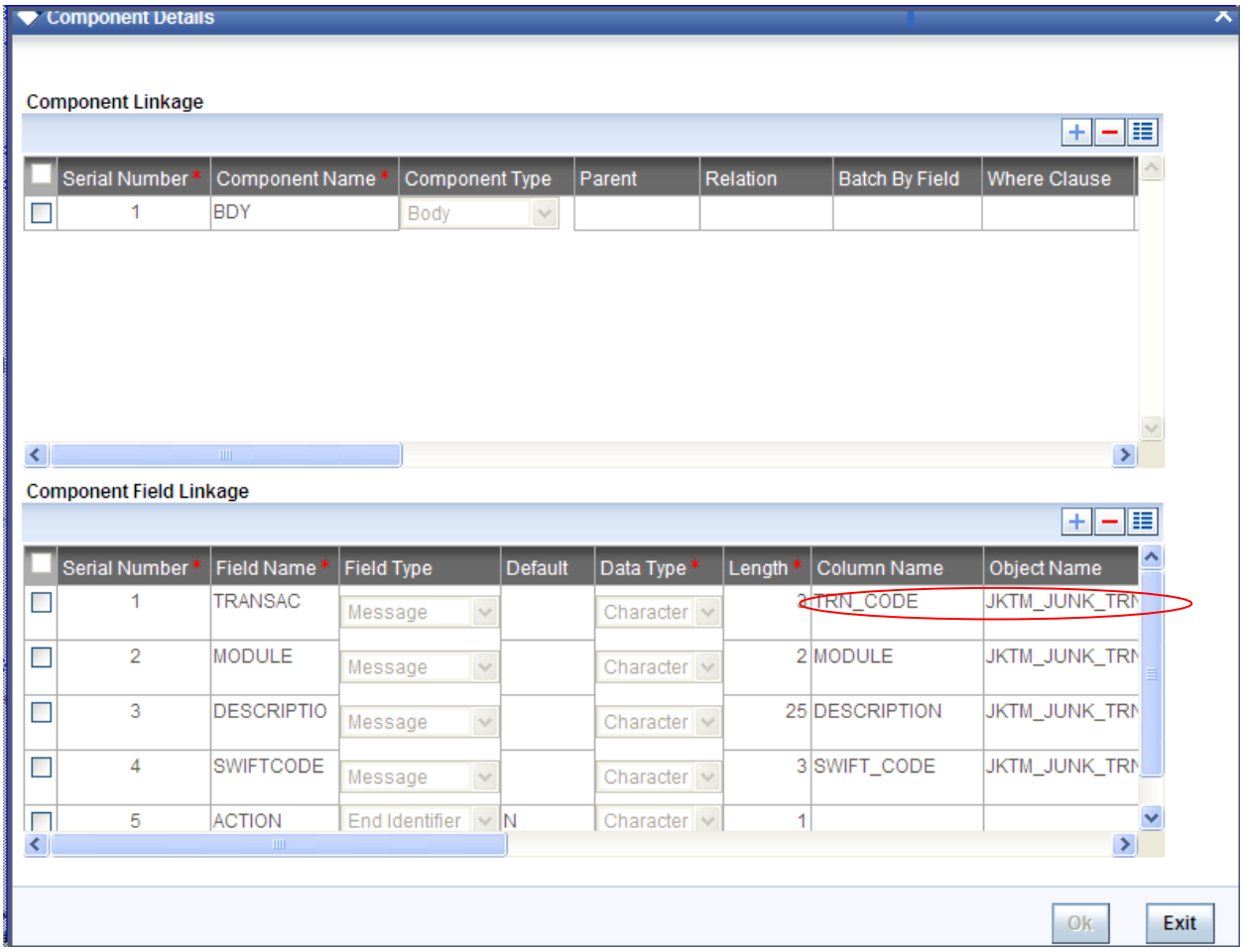
Here the action is NEW

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
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Serial Number
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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
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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
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Pre Component AUDF
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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
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Pre Record
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Serial Number
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Field Type
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- Message
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- 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.

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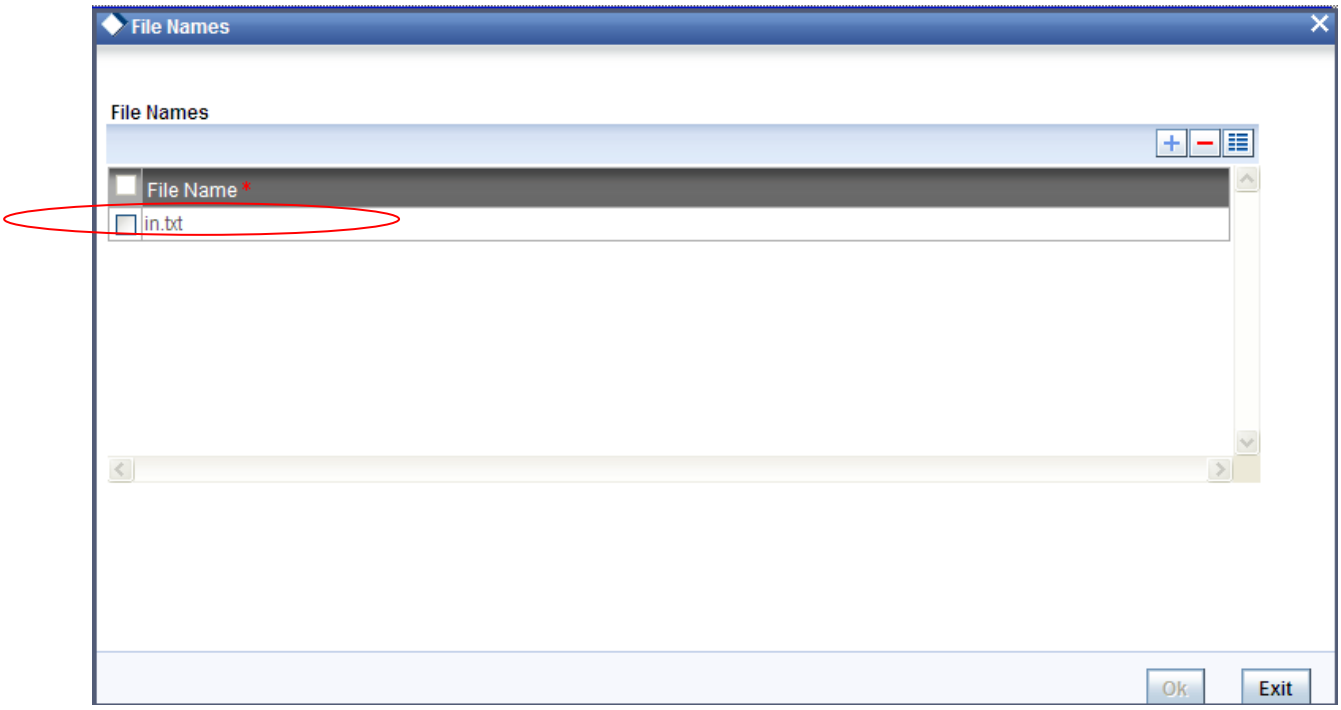
- Specifying Incoming File Names

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



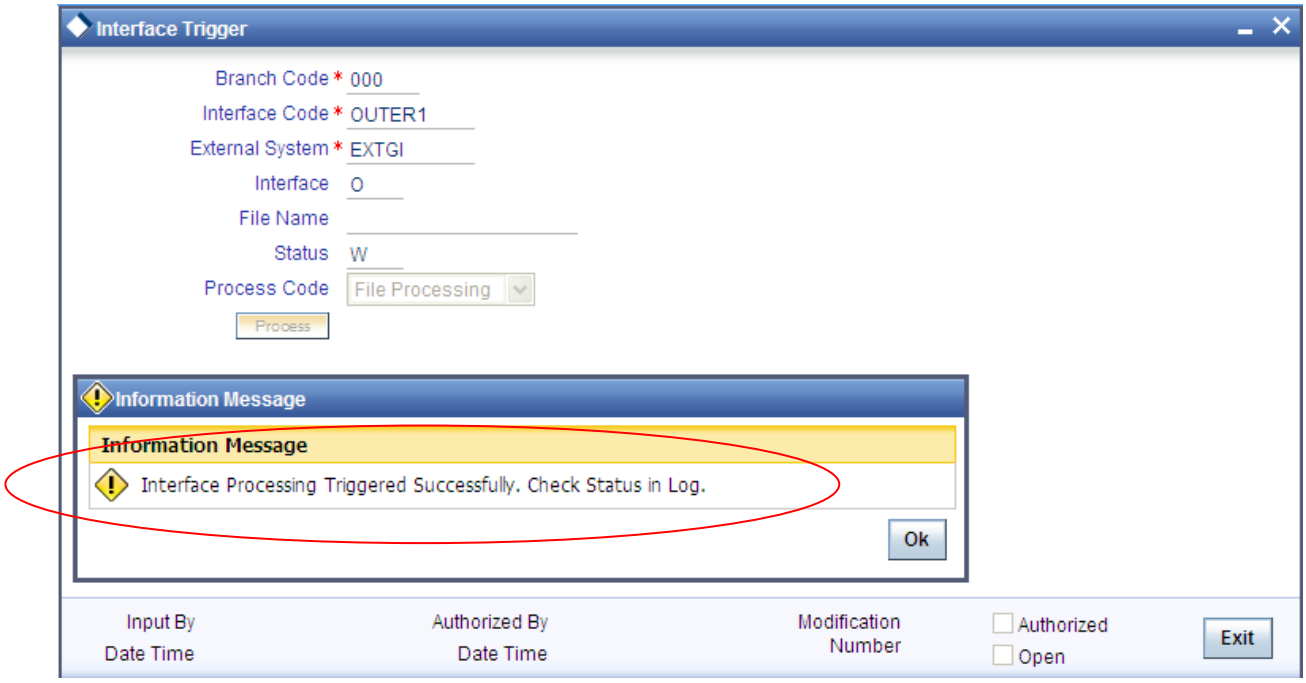
File Names
The incoming file names are maintained here.

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



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

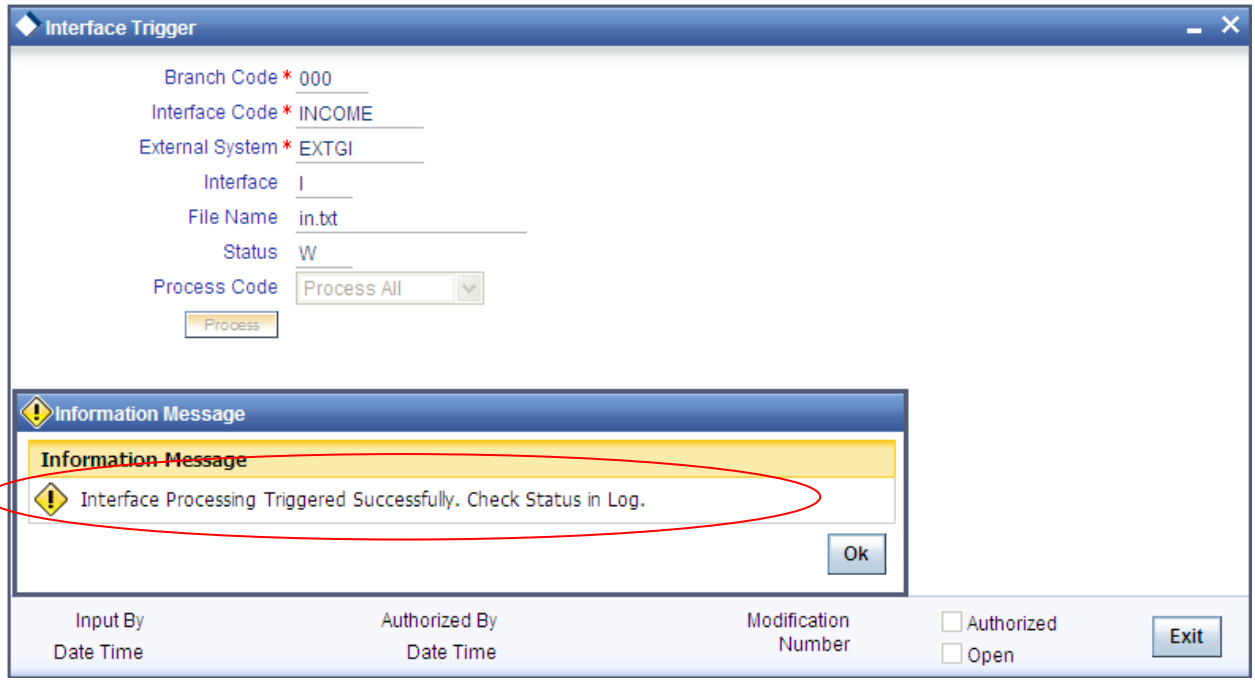
Here it's O i.e. Outgoing

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

4.4.2 Incoming



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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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