RTGS SKN Messages User Guide Oracle FLEXCUBE Universal Banking

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1.Preface

1.1 Introduction

Oracle FLEXCUBE facilitates processing of SKN and RTGS messages for bank payments. The system dispatches and processes Incoming credit payment, Return of Incoming credit payment, Outgoing Credit Payment, Return of Outgoing Credit Payment in SKN and RTGS networks. Besides this User Manual, while maintaining the interface related details, you can invoke the context sensitive help available for each field. This help encapsulates the purpose of each field within a screen. Placing the cursor on the relevant field and striking the <F1> key on the keyboard can obtain information specific to a particular field.

1.2 <u>Audience</u>

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

Role	Function
Back office data entry Clerks	Input functions for maintenance related to the interface
Back office Managers/ Officers	Authorization functions

1.3 **Documentation Accessibility**

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

1.4 Organization

This manual is organized as follows:

Chapter 1	About this Manual gives information on the intended audience. It also lists the various chapters covered in this User Manual.
Chapter 2	<i>RTGS Messages</i> explains the process of maintaining the incoming and outgoing credit payment messages through RTGS interface.
Chapter 3	SKN Messages explains the process of maintaining the incoming and outgoing credit payment messages through SKN interface.
Chapter 4	Annexure lists all the various accounting entries for RTGS and SKN Messages.
Chapter 5	<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 Acronyms and Abbreviations

Abbreviation	Description
System	Unless and otherwise specified, it shall always refer to Oracle FLEX- CUBE Corporate (FCC) system
GI	Generic Interface
RTGS	Real Time Gross Settlement
SKN	Sistem Kliring Nasional / Indonesia National Clearing system

1.6 Organization

This manual is organized into the following chapters:

Chapter 1	About This Manual – Provides an introduction to the organisation of the Manual
Chapter 2	<i>RTGS Messages</i> – Provides an overview of the messages in RTGS network.
Chapter 3	SKN Messages – Provides an overview of the messages in SKN network.

1.7 Glossary of Icons

lcons	Function		
×	Exit		
+	Add row		
-	Delete row		
2	Option List		

1.8 Related Documents

You may need to refer to any or all of the User Manuals while working on the IF RTGS SKN Messages module:

- Procedures User Manual
- GI
- CS
- FT
- MS
- PC
- LC





2. RTGS Messages

2.1 Introduction

Oracle FLEXCUBE supports processing of messages in RTGS network. Incoming credit payment, Return of Incoming Credit payment, Outgoing Credit payment, return of outgoing credit payment and Incoming debit are the messages dispatched and processed in RTGS networks..

2.2 Maintaining Details for RTGS Interface

You need to maintain the following details for this interface:

- Details of External System
- Details of the Interface
- Interface Parameterization
- Interface Translation

2.2.1 <u>Maintaining External System</u>

You need to specify the external system connected to the interface by using the 'External System Maintenance' screen. You can invoke the 'External System Maintenance' screen by typing 'GWDEXSYS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

External Systems								
🗋 New								
- External System External System* Description	k	- Correlation Pattern Request	Message Id 🔹					
- null Request Message Response Message	Input Only Full Screen XSD Validation Required	– Queue Default Response Queue Dead Letter Queue	Register Response Queue Message Id					
External System Queues *			+					
In Queue *	P	Response Queue						
Fields FTP Parameters								
Input By Date Time	Authorized By Date Time	Modification Number Authorized Open	Exit					

In this screen, you can specify the following details:



External System

Specify 'RTGS' as the external system.

For more details refer Maintaining External System(s) Details section of Generic Interface User Manual.

2.2.2 Maintaining RTGS Interface Details

Generic Interface (GI) provides a facility to define format details and properties associated to interface file.OLE_LINK1 You can maintain format details and properties associated with RTGS 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.

Interface Definition					_ ×
🗋 New					
Branch Code * Interface Type File Mask CRC Algorithm CRC File Mask CRC File Path	CRC Required	External System * Format Type 1 File Path * Commit/Fetch Frequency Date Format *	Fixed	Interface Code * Delimiting Character When To Run Trigger Type	Confirmation File Required
		No Of Executions/Day [[D	Duplication File Check Required For Current late	Confirmation File Mask Confirmation File Path	
- Justification Date Number Text Frequency Type Week Day Month Dates Last Run Date Next Run Date	Daily	- Padding Character Date Number Text Pre Message Post Message Pre Message AUDF Post Message AUDF		Incoming Function Id Function Id Processed File Mask Default Action On Override Outgoing Interface Incoming File Mask Log Output Parallel Process No Of Records No Of Parallel Process	New Reject Suppress Start Reference Parallel Process Required
Component Details Inc	oming File Names				
Input By Date Time	Authorized By Date Time	Me	odification Number	Authorized Open	Exit

The following details are maintained for PCRTGSIN interface here:

External System

Specify 'BIS' as external system.

Interface Code

Specify interface code as 'PCRTGSIN'.

Interface Type

Select Incoming as interface type from the adjoining drop-down list.

File Path

Specify the directory path of the incoming files to be processed.

File Name

Specify the file name as per network.

Frequency Type

Select Multiple times in a day as the frequency type from the adjoining drop-down list.



Incoming File Mask

Select 'Start With File Name' as the incoming file mask from the adjoining drop-down list.

The interface details and the external system details are maintained using the Interface Definition Details and External System Maintenance screens. For more details refer Specifying Interface Definition Details section of Generic Interface User Manual.

2.2.3 Maintaining RTGS Messages

The following table specifies the various message types and the corresponding transaction code of RTGS Network:

Ser ial No	Network (from Product)	Messag e Type (Outgoin g/ Incomin g)	Transfer Type	Produ ct Type(f rom Produ ct Categ ory)	RTGS/ SKN Messa ge Name	Message Description
1	RTGS	Incoming	Cus- tomer	Incom- ing Credit Pay- ment	607	This is an Incoming RTGS Payment to the Customer. The Message Type received in the RTGS message will be "607" based on which the product type will be identified. Mapping between the message type and the corresponding Pay- ment product has to be provided based on which the transaction will be created.
2	RTGS	Incoming	Cus- tomer	Return of Out- going Credit Pay- ment	610	This message is for return of Outgoing Payment. The first 16 charac- ters of the "Payment field" in the message contain the Reference number based on which the transaction will be identified.
3	RTGS	Outgoing	Payment	Outgo- ing Credit	600	This message will be generated for the "Out- going Payment" trans- action using RTGS product.



4	RTGS	Outgoing	Payment	Return of Incom- ing Credit	617	This message will be generated when the authorizer rejects the Incoming credit pay- ment
5	RTGS	Incoming	Payment	RTGS Debit Notifi- cation	637	

2.2.4 Processing Incoming RTGS Message

The interface PCRTGSINC uploads the incoming payment files through RTGS networks. The incoming files uploaded in the ASCII format is placed in a specified folder and the path is mapped to GI maintenance.

Steps involved in File processing of Incoming RTGS Message:.

- When the file is uploaded, the network type is identified based on the file type.
- The file is parsed as per the message format and is uploaded in the GI interface table.
- From the interface table new program unit is written to call the PC service using the data available in the GI interface table.
- The RTGS file will be identified with RTGS file extension.
- The interface job is triggered manually to initiate manual processing.
- After the file processing and data processing, incoming job PC_PRCSINMSG is executed from the job browser screen (CSSJOBBR)
- After job execution, system processes the data from the GI upload table and creates Incoming payment contracts.
- The following validation is done as part of file parsing and it will be rejected if validation fails
 - Incorrect credit count, debit count.
 - Incorrect total credit amount, total debit amount.
 - TRN code is incorrect or blank

2.2.5 Processing Outgoing RTGS Message

The interface PCRTGSOUT uploads the outgoing payment files through RTGS networks. The outgoing files uploaded in the ASCII format is placed in a specified folder and the path is mapped to GI maintenance.

Steps involved in File processing of Outgoing RTGS Message:

- All the outgoing payment contracts generated on the day along with the contracts generated after the cut-off time in the previous day is selected.
- All the fields required for the message is inserted into the GI upload interface table.
- From the interface table file is generated and placed in the directory location.
- A new parameter NO_OF_OUT_TXN is introduced in CSTB_PARAM. This parameter denotes the number of transaction to be grouped in a single file. If the number of transaction to be processed exceeds the count then multiple outgoing files are generated.



- The outgoing job PC_PRCSOUTMSG is introduced for processing outgoing file generation.
- After the execution of job from the job browser screen, the system:
 - Selects the set of contracts to be dispatched.
 - Processes individual contracts to build the message body on per transaction basis.
 - Based on the parameter count the individual transactions are grouped in the file and the corresponding header and footer are built.
 - Multiple files are generated for both RTGS and SKN in case if the number of transactions exceeds the parameter count.
 - New parameter PC_OUTFILE_PATH will be introduced in the CSTB_PARAM table. Based on the path specified in the parameter, the outgoing file is placed in the path.



3. SKN Messages

3.1 Introduction

Oracle FLEXCUBE facilitates the outgoing and incoming payments with SKN network. SKN networks dispatches and processes Incoming Credit Payment, Return of Incoming Credit Payment, Outgoing Credit Payment and Return of Outgoing Credit Payment messages.

3.2 Maintaining Details for SKN Interface

You need to maintain the following details for this interface:

- Details of External System
- Details of the Interface
- Interface Parameterization
- Interface Translation

3.2.1 Maintaining External System

You need to specify the external system connected to the interface by using the 'External System Maintenance' screen. You can invoke the 'External System Maintenance' screen by typing 'GWDEXSYS' in the field at the top right corner of the Application tool bar and clicking the adjoining arrow button.

External Systems								
🗋 New								
- External System External Syste Descriptic	m *	- Correlation Pattern Request	Message Id 🔻					
- null Request Messag Response Messag	ge Input Only Full Screen XSD Validation Required	- Queue Default Response Queue Dead Letter Queue	Register Response Queue Message Id					
External System Queues *			+-					
In Queue *		Response Queue						
Fields FTP Parameters								
Input By Date Time	Authorized By Date Time	Modification Number Authorized Open	Exit					

In this screen, you can specify the following details:

External System

Specify 'SKN' as the external system.



For more details refer Maintaining External System(s) Details section of Generic Interface User Manual

3.2.2 Maintaining SKN Interface Details

Generic Interface (GI) provides a facility to define format details and properties associated to interface file. You can maintain format details and properties associated with SKN 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.

Interface Definition					_ ×
🗋 New					
Branch Code * Interface Type File Mask	Incoming	External System * Format Type File Path *	Fixed -	Interface Code * Delimiting Character	Confirmation File Required
CRC Algorithm CRC File Mask CRC File Path		Commit/Fetch Frequency Date Format * No Of Executions/Day	Data Log Required YYYYMMDD Duplication File Check Required For Current Date	When To Run Trigger Type Confirmation File Mask Confirmation File Path	▼ Mandatory Manual ▼
- Justification Date Number Text Frequency Type Week Day Month Dates Last Run Date Next Run Date	Daily	- Padding Character Date Number Text Pre Message Pre Message AUDF Post Message AUDF		Incoming Function Id Processed File Mask Default Action On Override Outgoing Interface Incoming File Mask Log Output Parallel Process No Of Parallel Process No Of Parallel Process	New Reject
Component Details Inc Input By Date Time	oming File Names Authorized By Date Time	1	Nodification Number	Authorized Open	Exit

The following details are maintained for PCSKNSIN interface here:

External System

Specify 'BIS' as external system.

Interface code

Specify interface code as 'PCSKNSIN'.

Interface Type

Select Incoming as interface type from the adjoining drop-down list.

File Path

Specify the directory path of the incoming files to be processed.

File Name

Specify the file name as per network.

Frequency Type

Select Multiple times in a day as the frequency type from the adjoining drop-down list.

Incoming File Mask

Select 'Start With File Name' as the incoming file mask from the adjoining drop-down list.



The interface details and the external system details are maintained using the Interface Definition Details and External System Maintenance screens. For more details refer Specifying Interface Definition Details section of Generic Interface User Manual.

3.2.3 Maintaining SKN Messages

Seria I No	Network (from Product)	Message Type (Outgoing/ Incoming)	Payme nt / Collecti on	Product Type(fro m Product Category)	Mess age Name	Message Description
1	SKN	Incoming	Cus- tomer	Incoming Credit Payment	S01	This is an incoming SKN Payment message for the Customer.
						The message type received in the message will be "BMSKN01" based on which the product type will be identified.
						Mapping between the message type and the corre- sponding Pay- ment product has to be pro- vided based on which the trans- action will be created.

The following table specifies the various message types and the corresponding transaction code of SKN Network:



2	SKN	Incoming	Cus- tomer	Return of Outgoing Credit Payment	S03	The message is the return of "Outgoing credit payment".
						The first 16 characters of the "Remarks field" in the message con- tain the Refer- ence number based on which the transaction will be identi- fied.
3	SKN	Outgoing	Pay- ment	Outgoing Credit	S05	This message will be gener- ated for the "Outgoing Pay- ment" transac- tion using the SKN product
4	SKN	Outgoing	Pay- ment	Return of Incoming Credit	S07	This message will be gener- ated when the authorizer rejects the Incoming credit Payment

3.2.4 Processing Incoming SKN Messages

The interface PCSKNSINC uploads the incoming payment files through SKN networks. The incoming files uploaded in the ASCII format is placed in a specified folder and the path is mapped to GI maintenance.

Steps involved in File processing of Incoming SKN Message:.

- When the file is uploaded, the network type is identified based on the file type.
- The file is parsed as per the message format and is uploaded in the GI interface table.
- From the interface table new program unit is written to call the PC service using the data available in the GI interface table.
- The SKN file is identified with SKN file extension.
- The interface job is triggered manually to initiate manual processing.
- After the file processing and data processing, incoming job PC_PRCSINMSG is executed from the job browser screen (CSSJOBBR)
- After job execution, system processes the data from the GI upload table and creates Incoming payment contracts
- During the data process stage the transaction will be rejected for the following cases:



- Corrupted input file
- Invalid record (e.g. account number missing)
- Account number field will be checked for the presence of any special characters, if found then the transaction will be rejected.
- TRN code is incorrect or blank.

3.2.5 Processing Outgoing SKN Messages

The interface PCSKNOUT uploads the outgoing payment files through SKN networks. The outgoing files uploaded in the ASCII format is placed in a specified folder and the path is mapped to GI maintenance.

Steps involved in File processing of Outgoing SKN Message:

- The cut-off time maintained is validated for the network in order to check if the current time is within the cut-off time.
- All the outgoing payment contracts generated today along with the contracts generated after the cut-off time in the previous day is selected.
- All the fields required for the file will be inserted into the GI upload interface table.
- The PC_OUTFILE_PATH parameter is inserted in CSTB_PARAM table.
- The outgoing file is placed in the path based on the path specified in the parameter.



4. Annexure

4.1 Accounting Entries

The following are the various accounting entries for RTGS and SKN Messages.

4.1.1 Accounting entries for RTGS Incoming Debit (from Central Bank)

If the transaction does not fall in to any of the exception queues, then both 'DRLQ', 'CRLQ' will be processed.

Event	Account	Debit/Credit	Amount
DRLQ	Network GL	Credit	Charge Amount
DRLQ	Intermediary GL	Debit	Charge Amount

Event	Account	Debit/Credit	Amount
CRLQ	Charge/Fees GL	Debit	Charge Amount
CRLQ	Intermediary GL	Credit	Charge Amount

4.1.2 Accounting Entries for SKN/RTGS incoming payments

If the transaction does not fall in to any of the exception queues, then both 'DRLQ', 'CRLQ' will be processed.

Event	Account	Debit/Credit	Amount
DRLQ	Incoming Network GL (NOSTRO)	Debit	Transaction Amount
DRLQ	Intermediary GL	Credit	Transaction Amount

Event	Account	Debit/Credit	Amount
CRLQ	Intermediary GL	Debit	Transaction Amount
CRLQ	Customer Account	Credit	Transaction Amount

If the transaction falls on incoming authorization queue then 'DRLQ' event will be processed.

Event	Account	Debit/Credit	Amount
-------	---------	--------------	--------



DRLQ	Incoming Network GL (NOSTRO)	Debit	Transaction Amount
DRLQ	Intermediary GL	Credit	Transaction Amount

If the transaction is completely authorized from the incoming authorization queue that means the transaction not falls on any exception queue then system will process the 'CRLQ' event.

Event	Account	Debit/Credit	Amount
CRLQ	Intermediary GL	Debit	Transaction Amount
CRLQ	Customer Account	Credit	Transaction Amount

If the incoming payment is rejected from the incoming authorization queue then system will process 'CRLQ event

Event	Account	Debit/Credit	Amount
CRLQ	Intermediary GL	Debit	Transaction Amount
CRLQ	Unsettle GL(will be picked up from Product Category)	Credit	Transaction Amount

If the incoming payment or return of outgoing payment is suspended from the incoming authorization queue then system will process the 'CRLQ' event with following accounting entries

Event	Account	Debit/Credit	Amount
CRLQ	Intermediary GL	Debit	Transaction Amount
CRLQ	Unsettle GL(will be picked up from Product Category)	Credit	Transaction Amount

If the incoming payment or return of outgoing payment is authorized from the repair queue then system will not post any accounting entries and the transaction will be moved into incoming authorization queue.

If the incoming payment is rejected from the repair queue then system will process "CRLQ event

Event	Account	Debit/Credit	Amount
CRLQ	Intermediary GL	Debit	Transaction Amount
CRLQ	Unsettle GL(will be picked up from Product Category)	Credit	Transaction Amount

4.1.3 Accounting Entries for SKN/RTGS Outgoing Payments

If the contract is moved to release queue, then 'DRLQ' event will be processed.



Event	Account	Debit/Credit	Amount
DRLQ	Customer Account	Debit	Transaction Amount
DRLQ	Intermediary GL	Credit	Transaction Amount

If the contract is released from Release queue, then CRLQ event will be processed.

Event	Account	Debit/Credit	Amount
CRLQ	Intermediary GL	Debit	Transaction Amount
CRLQ	Outgoing Network GL (NOSTRO)	Credit	Transaction Amount

If the contract does not require any manual authorization or release action then both 'DRLQ' and 'CRLQ' event will be processed. Accounting entries will be posted as below:

Event	Account	Debit/Credit	Amount
DRLQ	Customer Account	Debit	Transaction Amount
DRLQ	Intermediary GL	Credit	Transaction Amount
CRLQ	Intermediary GL	Debit	Transaction Amount
CRLQ	Outgoing Network GL (NOSTRO)	Credit	Transaction Amount

If the contract is rejected from Release queue, then contract will be reversed and the accounting entries will be as given below:

Event	Account	Debit/Credit	Amount
REVR	Customer Account	Debit	Negative transaction Amount
REVR	Intermediary GL	Credit	Negative transaction Amount

If the contract is rejected from Authorization (A1, A2) queues, then system will not process any accounting entries.

For Reject of Incoming Payments (IN) contracts following accounting entries will be posted for DRLQ and CRLQ events.

Event	Account	Debit/Credit	Amount
DRLQ	Unsettle GL	Debit	Transaction Amount
DRLQ	Intermediary GL	Credit	Transaction Amount
CRLQ	Intermediary GL	Debit	Transaction Amount



Event	Account	Debit/Credit	Amount
CRLQ	Outgoing Network GL (NOSTRO)	Credit	Transaction Amount



5. Function ID Glossary

G GIDIFTDF2-2

GWDEXSYS2-1

