SWITCH Simulator Oracle FLEXCUBE Universal Banking Release 14.4.0.0.0 [May] [2020]



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1. Introduction

1.1 Scope of the Document

This document explains the basic configuration and usage of the Simulator.

It provides a detailed description of the software requirements, building process, and Usage.

1.2 <u>Intended Audience</u>

The document is intended for the KERNEL implementation Team.

1.3 Organization of the Document

The organization of the document is as follows:

Chapter	Remarks
Chapter 1	Short Introduction to this document.
Chapter 2	Simulator Basic Requirements
Chapter 3	Simulator Deployment Process
Chapter 4	Simulator Basic Configuration
Chapter 5	Simulator Usage



2. Simulator Basic Requirements

2.1 Software Requirements

- Java JDK 1.5 and above
- Ant

2.2 Required External Jars

- log4j.jar
- commons-logging-1.0.4.jar
- commons-pool-1.2.jar
- xml.jar
- xerces-2.4.0.jar

Note: The external jar we could find in the any application server's folder (e.g. weblogic or IBM web spear or oc4j (please search entire home folder of application server home folder with .jar)).



3. Simulator Deployment Process

3.1 Copy Folder Structure

Get the simulator folder which has required folder structure, configuration related files and simulator related jar files from the below link and place it in the local system.

"FCUBS_14.0.0.0.0\SwitchGateway\utilities\SWJavaSimulator"

Assume that it is <HomeFolder>

3.2 Place the required Jars

Place the external jar files into <HomeFolder>/lib folder.



4. Simulator Basic Configuration

4.1 IP & Port Configuration

Config File Name: <HomeFolder>/<Version - xxxx>/config/properties.xml

Configuration (change):

 The following XPATH will contain the Host Name or IP of the system to which simulator has to send the generated ISO Messages.

XPATH: simulator/FepiServer/Ip

 The following XPATH will contain the port to which simulator will establish the TCP/IP connection

XPATH: simulator/FepiServer/Port

4.2 **Bitmap Configuration**

Config File Name: <HomeFolder>/<Version - xxxx>/config/properties.xml

The following XPAH has to be used to configure the Bitmap Type

XPATH: simulator/Bitmap-AsciiMode

Supporting Bitmap Modes:

- 1. ASCII XPATH value should be true
- 2. BINARY XPATH value should be false

4.3 **Header Length Type**

Config File Name: <HomeFolder>/<Version - xxxx>/config/properties.xml



• The following XPAH has to be used to configure the Bitmap Type

XPATH: simulator/ HeaderLength-AsciiMode

Supporting Bitmap Modes:

- 1. ASCII XPATH value should be true
- 2. BINARY XPATH value should be false



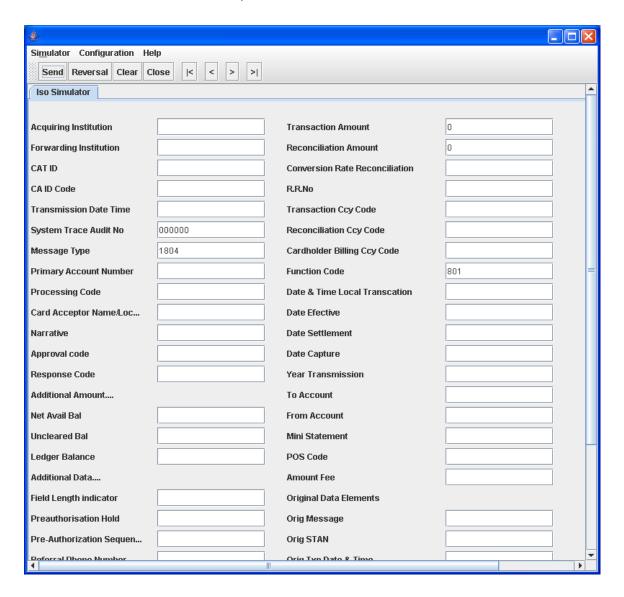
5. Simulator Usage

5.1 Start the Simulator

By executing the Simulator.bat we can start the Simulator

File Path: <HomeFolder>/Simulator.bat

When simulator is started, it will load with default values





5.2 Stop the Simulator

Closing the simulator is preferred by using Close option of the simulator, since what ever the transactions are done so far will get saved in the transactions log history.

So that when we open next time we would be able to load the previous transactions what ever are done.

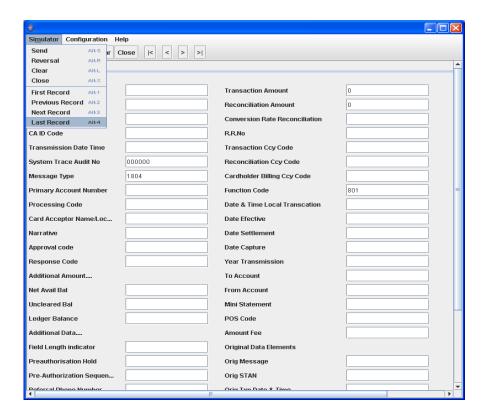
5.3 Load the previous Transaction Details

We can use to load the previous Transaction details on to the Simulator Panel, using Simulator menu, and then click on of the following

- First Record
- Next Record
- Previous Record
- Last Record

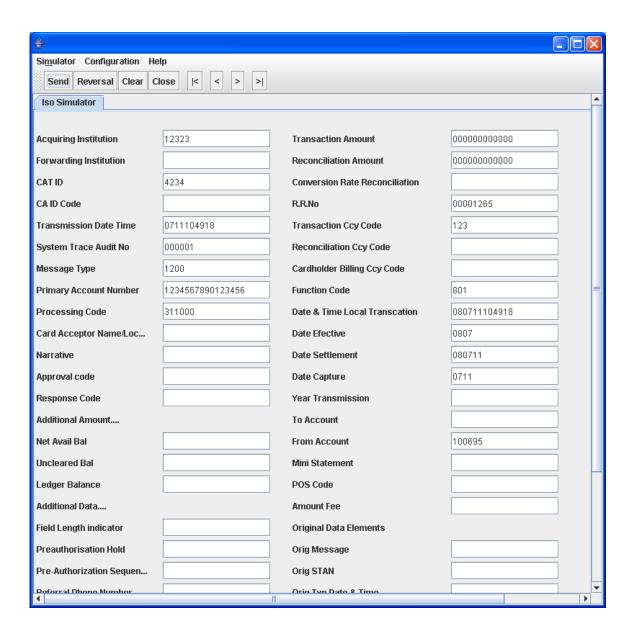
The following snap shot is to load the Last transaction While choosing the option





After choosing the option





We can also do the same soft of work using buttons located on the standard tool bar

- |< will load the First Record
- » will load the Next Record
- will load the Previous Record
- » | will load the Last record



5.4 Send ISO Transaction Message

Once if the data is entered in the required fields, we just need to choose send option of the simulator. Once if the send option is selected, It does the basic validation, prepares the ISO message based on the configurations, and will send the message to the host.

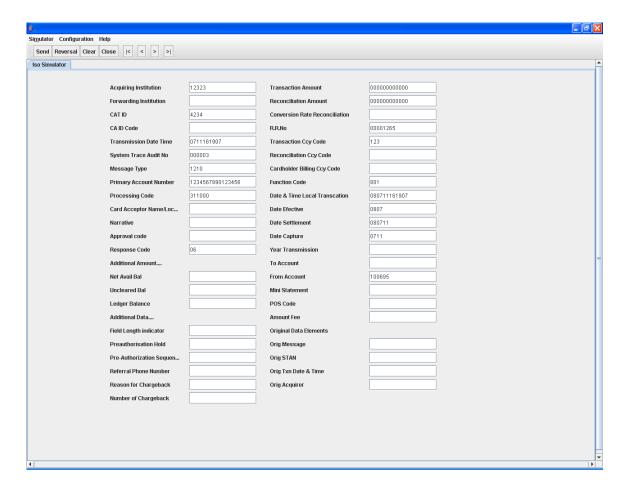
Once simulator send the Transaction to the host, It will start looking for response, and wits till some time (configured time) and if it doesn't get the response I t will popup the message.

If simulator get the response, first it clears the all the fields of the panel and will display the fields values those are present in the response

	ear Close < < > >				
Simulator					
		10000	ī	2000000000	
	Acquiring Institution	12323	Transaction Amount	0000000000	
	Forwarding Institution	1001	Reconciliation Amount	0000000000	
	CAT ID	4234	Conversion Rate Reconciliation		
	CA ID Code		R.R.No	00001265	
	Transmission Date Time	0711161907	Transaction Ccy Code	123	
	System Trace Audit No	000003	Reconciliation Ccy Code		
	Message Type	1210	Cardholder Billing Ccy Code		
	Primary Account Number	1234567890123456	Function Code	801	
	Processing Code	311000	Date & Time Local Transcation	080711161907	
	Card Acceptor Name/Loc		Date Efective	0807	
	Narrative		Date Settlement	080711	
	Approval code		Date Capture	0711	
	Response Code	06	Year Transmission		
	Additional Amount		To Account		
	Net Avail Bal		From Account	100695	
	Uncleared Bal		Mini Statement		
	Ledger Balance		POS Code		
	Additional Data		Amount Fee		
	Field Length indicator		Original Data Elements		
	Preauthorisation Hold		Orig Message		
	Pre-Authorization Sequen		Orig STAN		
	Referral Phone Number		Orig Txn Date & Time		
	Reason for Chargeback		Orig Acquirer		
	Number of Chargeback				



After getting Response:



Note: Request to restart the Simulator if we don't get response for one message.

5.5 Auto Generation of Fields

Few field's values will be generated automatically. And will be populated when we choose the send option. Just before validating the fields values, It will generates the values for the fields (As per the configuration e.g: STAN), will populate on the panel then will validates and prepares the message and will send.

5.6 Clear option of simulator

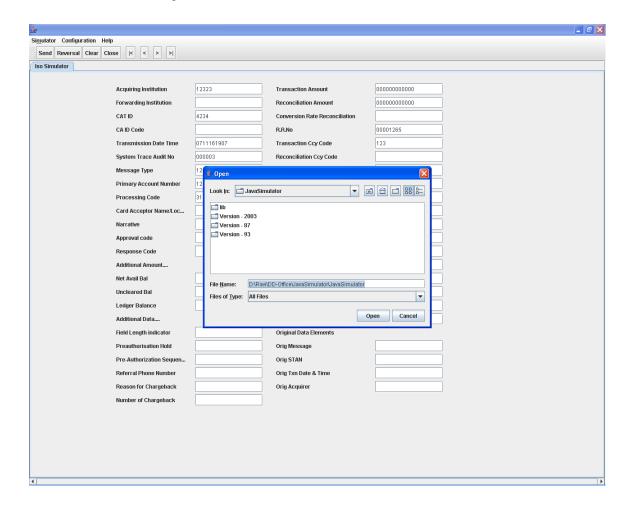
It just clears the field's values of Simulator Panel



5.7 Switch to different Version

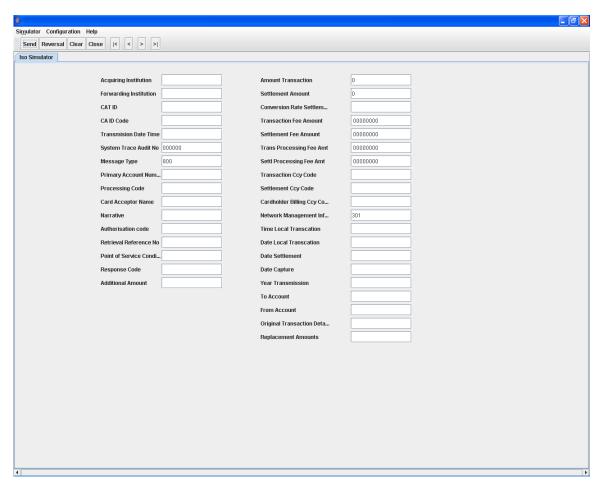
Click on Configuration menu. Then it will popup open dialog box. Select the one of the version folders available

When we click on configuration





After Selecting the Version Folder



Note:

- Once if we switch to another version, all the transactions will get saved, new version related property files, and transaction history will be loaded. Once version related things are loaded, rest of the operations is same.
- When we are using sub fields, we must enter all the sub fields, otherwise corresponding field value won't be the part of the generated ISO Message.





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