SWITCH Simulator
Oracle FLEXCUBE Universal Banking
Release 12.4.0.0.0
[May] [2017]
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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 Intended Audience

The document is intended for the following audience:

- KERNEL implementation Team

1.3 Organization of the Document

The organization of the document is as follows:

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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_12.1.0.0.0\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 sort 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 waits till some time (configured time) and if it doesn't get the response it will popup the message.

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

Note:

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.