Dialog Idea Mart Pro CAAS Simulator Guide

for Dialog Axiata PLC

Product Version 1.2.0

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Change Control

Version	Date	Description	Author
1.0.0	15/05/12	Final Documentation	hSenid Mobile Technical Writing Team
1.1.0	13/07/12	Added USSD details to the document	hSenid Mobile Technical Writing Team
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About this document

The purpose of this hSenid document is to provide sufficient information on the usage of Idea Mart CAAS Simulator for Dialog Axiata.

The intended audience for this document is the Content Developers on Dialog Axiata.

The document is divided into the following chapters:

Chapter	Description
Overview	This chapter gives a brief description of Idea Mart Simulator for Dialog Axiata.
Prerequisites	This chapter gives a brief description of Software requirements for the simulator usage.
Using the Simulator	This chapter gives a brief description of features and usage of the Simulator.

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Chapter 1

1 Overview

Idea Mart Simulator creates a virtual environment for the Content Providers (CPs) to test the created applications before connecting with the real-world system. The applications can be tested with actual validations using the simulator.

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Chapter 2

2 Prerequisites

Following are the software requirements need to install the IDEA MART Simulator at Dialog Axiata.

- Java – version 1.6.0 or upper
- **Install Java in Windows:**

    http://java.com/en/download/help/windows_manual_download.xml

- **Install Java in Linux:**

    http://www.java.com/en/download/help/linux_install.xml

Other required libraries are bundled in the package.

NOTE: Distribution file will come as a zipped file and extract it to the destination folder.

2.1 Start Up the Simulator

Step 1: Extract the sdk-standalone-1.0.0-distribution.zip file

Step 2: Go to the bin folder of the extracted file

Step 3: Start the IDEA MART using sdp-simulator.bat   file placed in the bin folder.

NOTE: If the application is running on Linux, sdp-simulator.sh file should be used.

Linux   - sh sdp-simulator console

Windows - sdp-simulator.bat console

Idea Mart can be accessed from URL *http://localhost:10001/*

NOTE: An application with the respective NCS enabled, also has to be run with the simulator.

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2.2 Stop the Simulator

Press Ctrl + C to stop the simulator

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Chapter 3

3 Using the Simulator

SDP clients can send requests to the SDP Simulator. Created applications can be used to send requests to the simulator.

NOTE: Although the simulator shows the MT message for SMS, user can test MT message alone (without MO), with any application which can send MT messages.

3.1 CAAS Request

Caas (Charging as a Service) enables applications to charge and to get account information from subscribers.
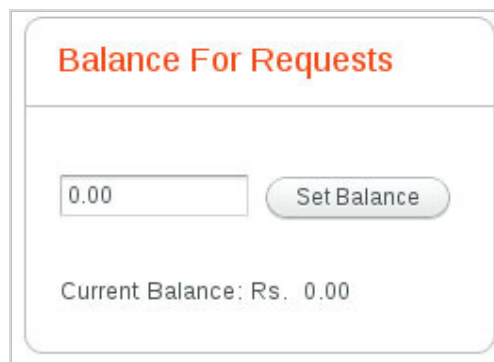
This simulator can set an initial balance for the account. Balance can be queried (in Query Balance) and also can be used in debit transactions (Direct Debit).

3.1.1 Query Balance

Application can send the "Query Balance" request to the simulator to retrieve the current balance of the particular subscriber's account.

The application has to send the query balance request to following url

http://localhost:7000/caas/get/balance

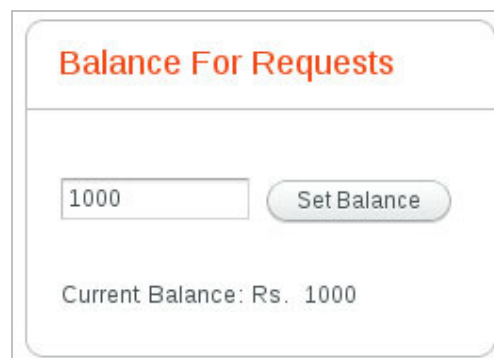Figure 3.12

To set the balance, user needs to enter the required amount in the relevant text field and click on "Set Balance". The amount will be set as the account balance.
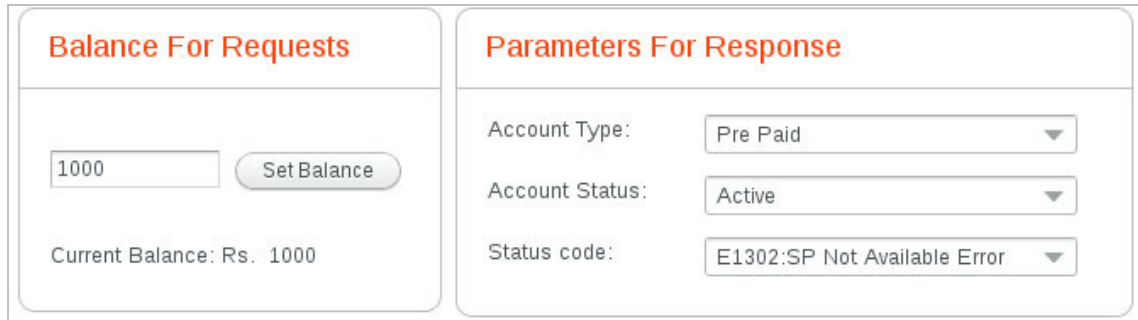
Figure 3.13

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In addition, the values set for Account type, Account Status are used in the Query Balance response.

Figure 3.14

To simulate error scenarios, the user has to select the appropriate status code from the "Status Code" list.

Field name	Description	Sample value
Set Balance	Sets the initial Balance for the account.	
Account Type	Select the account type	Pre paid, Post paid
Account Status	Specify the account status	Active, Blocked
Status Code	Set the Status Code	

Refer following for the sample request and response.

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Figure 3.15

When Query Balance Request is sent, the response will send the current account balance along with other account related details. (Refer the figure above.)

In case of an error scenario, refer the following screens for the request and response.

Figure 3.16

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Request receive from Application

Transaction ID	Subscriber ID	Application ID	Amount	Request Type
N/A	94776351232	APP_000018	N/A	QueryBalance

Clear All

Response sent to Application

Transaction ID	Status Code	Status Details	Chargeable Balance	Response Type
N/A	E1302	SP Not Available Error	0.00	QueryBalance

Clear All

Figure 3.17

Figures 3.16 and 3.17 show a sample response for an error in sending the Query Balance request.

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3.1.2 Direct Debit

The application has to send the direct debit request to following url

http://localhost:7000/caas/direct/debit

Figure below shows a direct debit transaction of 100 units for an account with a balance of 1000 units.

Figure 3.18

Following is the response.

Figure 3.19

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The transaction has been done successfully as the account had sufficient balance.

Following screen shows few more successful transactions.

Balance For Requests

1000   Set Balance

Current Balance: Rs. 0.0

Parameters For Response

Account Type: Pre Paid

Account Status: Active

Status code: S1000:Success

Request receive from Application

Transaction ID	Subscriber ID	Application ID	Amount	Request Type
1234567890123456 78	94776351232	APP_000017	100	Direct/Debit
1234567890123456 78	94776351232	APP_000017	100	Direct/Debit
1234567890123456 78	94776351232	APP_000017	800	Direct/Debit

Clear All

Response sent to Application

Transaction ID	Status Code	Status Details	Chargeable Balance	Response Type
1234567890123456789(	S1000	Success	N/A	Direct/Debit
1234567890123456789(	S1000	Success	N/A	Direct/Debit
1234567890123456789(	S1000	Success	N/A	Direct/Debit

Clear All

Figure 3.20

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Now the account has zero balance. In such scenario, if a transaction is attempted, it will be failed.

Following screen shows a sample of an error scenario with insufficient balance.

Balance For Requests

| 1000 | Set Balance |

Current Balance: Rs. 0.0

Parameters For Response

Account Type:	Pre Paid
Account Status:	Active
Status code:	S1000:Success

Request receive from Application

Transaction ID	Subscriber ID	Application ID	Amount	Request Type
1234567890123456778	94776351232	APP_000017	100	Direct/Debit
1234567890123456778	94776351232	APP_000017	100	Direct/Debit
1234567890123456778	94776351232	APP_000017	800	Direct/Debit
1234567890123456778	94776351232	APP_000017	800	Direct/Debit

Clear All

Response sent to Application

Transaction ID	Status Code	Status Details	Chargeable Balance	Response Type
1234567890123456789(	S1000	Success	N/A	Direct/Debit
1234567890123456789(	S1000	Success	N/A	Direct/Debit
1234567890123456789(	S1000	Success	N/A	Direct/Debit
1234567890123456789(	E1308	Charging Error	N/A	Direct/Debit

Clear All

Figure 3.21

In case of an error scenario, refer the following screens for the request and response.

Figure 3.22

Figure 3.23

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3.2 Response Error Codes

IDEA MART can respond to a message sent by the client application. A response code will be sent to the destination phone number and the corresponding response shall be identified accordingly.

IDEA MART will send following error codes to the preconfigured phone numbers as given in the list.

For any other number IDEA MART will send success response.

Phone Number	Status Code	Description
9900000	P1001	Partial Success
9900001	E1300	Default Error
9900002	E1301	App Not Available Error
9900003	E1302	SP Not Available Error
9900004	E1303	Invalid Host IP Error
9900005	E1304	App Not Found Error
9900006	E1305	Invalid App ID Error
9900007	E1306	Invalid Routing key Error
9900008	E1307	SP Not Found Error
9900009	E1308	Charging Error
9900010	E1309	NCS Not Allowed Error
9900011	E1310	MO Not Allowed Error
9900012	E1311	MT Not Allowed Error
9900013	E1312	Invalid Request Error
9900014	E1313	Authentication Failed Error
9900015	E1314	NCS Not Available Error

9900016	E1315	App Connection Refused Error
9900017	E1316	MSISDN Not Allowed Error
9900018	E1317	TPS Exceeded Error
9900019	E1318	TPD Exceeded Error
9900020	E1319	AT Message Failed Error
9900021	E1320	SBL Fail Error
9900022	E1321	Sender Not Allowed Error
9900023	E1322	Recipient Not Allowed Error
9900024	E1323	HTTP Request Not Allowed Error
9900025	E1324	Invalid MSISDN Error
9900026	E1325	Insufficient Fund Error
9900027	E1326	Charging Not Allowed Error
9900028	E1327	Charging Operation Not Allowed Error
9900029	E1328	Charging Amount Too High Error
9900030	E1329	Charging Amount Too Low Error
9900031	E1330	Invalid Sender Address Error
9900051	E1350	Subscription Reg Blocked Error
9900052	E1351	Subscription Reg Already Registered Error
9900053	E1352	Subscription Reg SLA Error
9900054	E1353	Subscription Reg Charging Error
9900055	E1354	Subscription Unreg SLA Error
9900056	E1355	Subscription Unreg Blocked Error

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9900057	E1356	Subscription Unreg Not Registered Error
9900061	E1360	Internal Error
9900062	E1361	System Error

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