



# **Dialog Idea Mart Pro USSD Simulator Guide**

## **for Dialog Axiata PLC**

Product Version 1.2.0



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## Change Control

Version	Date	Description	Author
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## About this document

The purpose of this hSenid document is to provide sufficient information on the usage of Idea Mart USSD 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.

# 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.

## 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](http://java.com/en/download/help/windows_manual_download.xml)*
- **Install Java in Linux:**  
*[http://www.java.com/en/download/help/linux\\_install.xml](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.

## 2.2 Stop the Simulator

Press Ctrl + C to stop the simulator



## 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.

### 3.1.1 USSD MT



Figure 3.8

Once connected to the application, the USSD prompt will be shown with the options.

The “**Messages sent to Customer**” section shows the messages with the details (message sent time, destination phone number and message content) as shown in the figure below.

Messages sent to Customer		
Time	Phone #	Message
04:44:45	tel:94771122336	1.Press One 2.Press Two 3.Press Three 4.Exit

Figure 3.9

User can still test the MT part alone (without MO) with any application provided that it can send MT messages.

For that, send the MT message to the following URL (which accepts USSD MT) and the MT message will be displayed in the simulator.

*`http://localhost:7000/ussd/send`*

### 3.1.2 USSD MO

To send a message to the application, the CP can use the provided interface in the simulator. Refer the figure below.

**Send Message To Application**

**Application Data:**

URL:

Application ID:

Password:

**Message Data:**

Session ID:

USSD Operation Types:

Customer Number:

Service Code:

**Additional Requests**

Status/Error code:

Figure 3.10

Enter the details as follows.

Field name	Description	Sample value
URL	The URL where the application is hosted	http://localhost:5555/mo-ussd
Application ID	Unique ID of the Application	APP_000001
Password	Password of the application. The application password will be auto-generated when the application is created.	password

Customer Number	The phone number from which the message is sent	94775576481
Service Code	USSD Service Code	*141#
Status/Error Code	Select the response status/error code to generate, when MT (Mobile Termination) message received from application.	S1000:Success

Once the values are entered correctly, click on the “**Send**” button.

The messages sent to the application will be displayed with its sent time, phone number, message content and status under **“Message sent to Application”** section.

Messages sent to Application

Time	Phone #	Message	Status
05:42:30	94771122336	#567#	SUCCESS

Clear All

Figure 3.11

## 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

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