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ENTERPRISE USSD CONTENT PROVIDERS API



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DOCUMENT HISTORY

Date	Change	By
October, 2014	Initial Draft	Stephen Adjei-Kyei
July, 2018	Addition of Other parameter	Stephen Adjei-Kyei

Introduction

This document is for USSD content providers who wish to serve USSD menus for end users connected to the networks configured on this system.

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HTTP API

Our HTTP API requires content providers to provide a URL that accepts the following parameters using the GET method: All parameters are **strings**.

NETWORK
SESSIONID
MODE
MSISDN
USERDATA
USERNAME
TRAFFICID
OTHER

TABLE OF DEFINITIONS

Response data must be sent to WIGAL in the correct position outlined in the table.

Parameter	Position	Description	Mandatory	Possible Values
network	1	The network from which the traffic originated	YES	Will be provided by WIGAL and must be returned as-is in the response string
sessionid	4	The unique string that identifies each session the end-user starts	YES	Will be provided by WIGAL and must be returned as-is in the response string
mode	2	This is used to determine if you require an input from the end-user or not	YES	START (New session) MORE (Require input) END (Close session)
msisdn	3	Phone number of the end-user	YES	Will be provided by WIGAL and must be returned as-is in the response string
userdata	5	Data from the end-user or Data from Content Provider	YES	Will be provided by WIGAL or Content Provider
username	6	Your username registered with WIGAL	YES	Will be provided by WIGAL and must be returned as-is in the response string
trafficid	7	Uniquely identifies every traffic even if from the same session	YES	Will be provided by WIGAL and must be returned as-is in the response string
other	8	Optional reference data by Third-Party.	NO	Parameter will be returned in the next request same as provided by third-party

EXPECTED RESPONSE FROM CONTENT PROVIDER

Wigal Solutions USSD API expects response from content provider as a string delimited by the pipe character “|”. The fields expected are detailed below followed by an example string in the required format:

The “^” Character is used as a newline indicator.

Parameters in their correct positions:

NETWORK|MODE|MSISDN|SESSIONID|USERDATA|USERNAME|TRAFFICID|OTHER

Sample String:

```
WIGAL_TIGO_GH|MORE|233276128036|10123|Welcome:^  
1.Ringtones^2.Lifestyle^3.News|stevkky|adc62161  
-05b2-4af5-98b1-a66c67f85c9d|first_menu
```

To display content on separate lines for a menu, the ^ character can be used as above. The above will achieve the menu displayed as

Welcome:

- 1. Ringtones**
- 2. Lifestyle**
- 3. News**

Without the ^ character, the menu displayed will be as below:

Welcome:1.Ringtones2.Lifestyle3.News

EXAMPLE SERVICE REQUEST

1. A sample URL by a provider can be as below:

<https://192.168.10.12/service.php>

2. WIGAL USSD API invokes:

https://192.168.10.12/service.php?network=wigal_tigo_gh&sessionid=12345&mode=start&msisdn=233276128036&userdata=&username=stevkky&trafficid=adc62161-05b2-4af5-98b1-a66c67f85c9d&other=first_menu

3. Content Provider responds with string:

“wigal_tigo_gh|MORE|233276128036|12345|Welcome:^1.Ringtones^2.Lifestyle^3.News|stevkky|adc62161-05b2-4af5-98b1-a66c67f85c9d|1”

4. WIGAL USSD API receives the response and parse the request and depending on that particular network setups generate an appropriate network response in protocols such as SMPP, SOAP, SS7, etc. and send to network operator.
5. End-User receives USSD Response on Phone as :

Welcome:

1. Ringtones

2. Lifestyle

3. News

Developers Example in PHP

```
<?php
$MSISDN = $_GET['msisdn'];

$SESSION_ID = $_GET['sessionid'];

$NETWORKID = $_GET['network'];

$MODE = $_GET['mode'];

$DATA = $_GET['userdata'];

$USERNAME = $_GET['username'];

$TRAFFIC_ID = $_GET['trafficid'];

$OTHER = $_GET['other'];

$RESPONSE_DATA = "";

//STEP ONE CHECK IF ITS START OF SESSION
if ($MODE=="start"){

$RESPONSE_DATA = "$NETWORKID|MORE|$MSISDN|$SESSION_ID|Welcome to Bank Mobile^Select Service^1.Balance
Enquiry^2.Pin Reset|$USERNAME |$TRAFFIC_ID|$OTHER";

}

else{

if ($DATA=="1" )$RESPONSE_DATA = "$NETWORKID|END|$MSISDN|$SESSION_ID|Your balance enquiry is being
processed.You will receive a reply shortly. |$USERNAME |$TRAFFIC_ID|$OTHER ";

if($DATA=="2")$RESPONSE_DATA = "$NETWORKID|END|$MSISDN|$SESSION_ID|A default pin will be sent to you
shortly. |$USERNAME |$TRAFFIC_ID|$OTHER";

}

echo $RESPONSE_DATA;
?>
```