



SMPP AND HTTP API FOR INTERNET SMS SERVICE

Author: Michael Nwaogu
Chief Software Architect
Version 1.02

Table of Contents

Lets get started	3
Introduction to our SMPP service	4
Introduction to our HTTP service	5
Sending SMS via HTTP POST / GET	6
Request Parameters	7
Status / Error Codes	9
Delivery Reports	10
Disclaimers	11

Let's get started

If you are not a registered user yet you need to register
Follow the registration and activation instructions:

1. Logon to the website <http://www.cellcore.com.ng/>
2. Click on "Register here"
3. Enter your Details as specified
 - a. Full Name [your First Name will default as Sender] *
 - b. Company Name
 - c. Cell Phone Number
 - d. Location
 - e. Username [4 to 16 Alpha-Numeric case sensitive Characters] *
 - f. Email Address [Where Password would be sent] *
 - g. Click on [Register] *
4. Check your specified email address for your password
5. Login to the website with your username and password.

* Signifies required / Mandatory Registration fields.

After you have successfully activated your account you can use any of our service origination or access methods

- SMPP
- HTTP
- WEB SMS DIRECT

Introduction to our SMPP SMS service

Welcome to the CELLCORE Ltd, hosting service dedicated exclusively to SMS service on the Internet. We have gone through tremendous length to bring you the best hosting service on the Internet so that you do not have to spend a lot of time on research and development leave alone the expense involved this allows anyone with a SMPP client or application to bind with our SMSC, authenticate and send/receive SMS

Our SMPP service comes with the following features

- Text, binary, Unicode, multi and Flash
- SMPP origination using industry standard SMPP protocol version 3.3 / 3.4
- Tools for software developers
- Desktop SMS client software
- Two way SMS [Inbound & Outbound]

PARAMETERS	DETAILS
SMSC HOST IP	www.cellcore.com.ng
SMSC PORT Number	9090
SMPP VERSION	3.4
USERNAME	AS REGISTERED
PASSWORD	AS REGISTERED
CONNECTION MODE	TRANSCEIVER
SOURCEADDR TON	5
SOURCEADDR NPI	0
SOURCE ADDRESS	ALPHA-NUMERIC
SOURCE IP ADDRESS	YOUR STATIC IP ADDRESS
SOURCE IP PORT	YOUR ORIGINATING PORT

Introduction to our HTTP SMS service

Welcome to our HTTP API This API is so simple to use as it only involves calling a URL with the correct parameters this allows integration very easily as all you have to do to end single or group SMS is to build a URL as we explain below.

You can use either the GET or POST methods (Post method is preferred as some UNIX systems have a buffer limitation) to send your SMS. We have gone through tremendous length to bring you the best HTTP API on the Internet so that you do not have to spend a lot of time on research and development let alone the expense involved.

The HTTP API allows any HTTP client or application, to bind with our SMSC, authenticate and send SMS only.

Our HTTP service comes with the following features

- Text binary Unicode multi and Flash
- HTTP origination using industry standard HTTP protocol and parameters below
- Tools for software developers
- Desktop SMS client software
- One way SMS [Outbound]

Sending SMS messages via HTTP GET/POST

This document describes how to perform SMS message sending through the standard HTTP POST/GET METHOD.

Form a valid http request with the following parameters

URL PARAMETERS

Protocol HTTP

Host www.cellcore.com.ng

Port 80

API File Name [api.cgi](#)

Full URI <http://www.cellcore.com.ng/cgi-bin/sms/api.cgi>

* See Status / Error Codes for HTTP Hits Confirmation

Request Parameters

Name	Type	Size	Description
USR	M	4 – 16	Username as Registered
PWD	M	4 – 16	Password as Registered
ACID	O	~	Account ID
TYP	O	0 – 3	[See Message Types]
MSG	M	1 – 160	Text Message body
SRC	M	3 – 11	Sender [Alphanumeric]
DST	M	~	[See Destination Numbers]
SMSC	O	3 – 25	SMS Route [Optional]

Message Body:

During HTTP URL Parsing, proper character conversions and URL encoding / escaping is advised, as the URL may be broken or distorted if URL encoding is ignored. Messages longer than the Maximum size of 160 characters will be truncated. Message concatenation is not supported by all Short Message Service Centers

Destination Numbers:

When using the A.P.I. [Application Programming Interface], the destination number is interpreted to be a valid phone number on a valid SMS supporting telecommunications network in a valid country.

As such it is the responsibility of the API user to ensure that the destination number is a valid phone number. CELLCORE Ltd., will not be liable for any phone number misrepresentation of any kind.

For Bulk messaging the API accepts multiple destinations are accepted only of separated by comma. See Example 1.0 below.

Example: 1.0 [Multiple Recipient]

<http://www.cellcore.com.ng/cgi-bin/sms/api.cgi?USR=user&PWD=pass&SRC=Cellcore&DST=2348021234567,2348031234567&TYP=0&MSG=Hello%20World>

Would send “Hello World” to 2348021234567 and 2348031234567

Example: 1.1 [Single Recipient]

<http://www.cellcore.com.ng/cgi-bin/sms/api.cgi?USR=user&PWD=pass&SRC=Cellcore&DST=2348021234567&TYP=0&MSG=hello%20world>

Would send “hello world” to 2348021234567

Message Types:

The CELLCORE API is adapted for Optimum performance, in that it allows the user to send whether plain text SMS to Phone memory, or plain text to phone terminal (Flash message), Ring tones in Hexadecimal formats for Nokia phones or Enhanced Message format Hexadecimal text. The UDH for the SMS is assumed to be the first 4 octets of the Message body.

The following Message types are supported.

TYPE	DESCRIPTION
0	PLAIN TEXT [DEFAULT]
1	PLAIN TEXT [FLASH]
2	BINARY [NOKIA TONE]
3	HEXADECIMAL [EMS]

STATUS / ERROR CODES

CODES	ERROR TYPE	DESCRIPTION
1001	ACCESS DENIED	Invalid Username or Password
1002	ACCESS DENIED	Disallowed Source IP Address
1003	DELIVERY FAILED	SMSC DOWN – Connection Failed
1004	DELIVERY FAILED	Improper Message Body Format
1005	DELIVERY FAILED	Rogue Source Address
1006	DELIVERY FAILED	Invalid Destination Address
	SUCCESS	Message Sent to SMSC [Returns Message ID]

Code Description

This document describes the errors returned on a successful hit of the URL of the API.

Note that none of these errors are returned if the URL is incorrect.

CODE 1001:

This code describes a request that was sent to the URL, but with an invalid username or Password.

CODE 1002:

This code describes a request that was sent to the URL, but from an unregistered IP address. This is a type 2, security alert as all clients who use this interface are requested to send in the permanent IP address from where the requests would be made.

CODE 1003:

This code describes a response from the SMSC that for technical reasons the SMSC is unable to deliver the Message. This Error Rarely happens, but the chances are set to a mere 1%.

CODE 1004:

This code describes a request that was sent to the URL, perhaps stating that the message is a Hexadecimal when it actually isn't. Plain ASCII text is not treated as HEXADECIMAL and as such the ESME returns this ERROR CODE.

CODE 1005:

This code describes a request that was sent to the URL, stating that the sender is from a Network, operating in Nigeria, when it actually isn't. As a policy CELLCORE Ltd., will not deliver SMS for any Network operators, in Nigeria as such the ESME returns this ERROR CODE.

SUCCESS:

This returns the six digits long or more, Message ID of generated by the SMSC, which can be used for DLR monitoring, if subsequently stored in a database. Along with the Account ID, Credit Balance & total number of SMS sent in the format: [MESSAGEID: SUCCESS: ACCOUNT ID: CREDIT BALANCE: TOTALSMS], Separated by semicolons. e.g.: "890902: Success: 17:201:10"