

HTTP API for Message Forwarding

(SMS India Hub Gateway Version 1.1)

Overview.....	2
Introduction.....	2
Messaging.....	3
Error Codes	4
Message parameter details.....	5-6
Contact Details	7

Overview

This document is intended for users, who wish to develop applications using the smsindiahub.in SMS Gateway for sending SMS messages. The gateway can be Accessed using the HTTP protocol by submitting values by means of the GET Method to the API Server.

Introduction

The smsindiahub.in Gateway can be accessed in various ways:

- Using HTTP Protocol API and submitting values by the GET method
- Using smsindiahub.in Web Interface
- Using MS-Excel Plugin
- Using Desktop Application – Dual Messenger

NOTE: Accessing gateway through HTTP protocol is one of the best & the

Fastest ways to deliver SMS messages.

The smsindiahub.in gateway HTTP API can be used to send various types of SMS Messages including simple text messages, flash message etc. This document gives a detailed explanation of how to use the gateway through the HTTP Protocol.

Messaging

For sending any type of SMS message, the gateway requires to be sent various Parameters including username & password for authentication purposes. All the parameters need to be sent via HTTP protocol using the GET method. The number of parameters required depends upon the type of SMS message.

Smsindiahub.in has developed a Gateway URL for submitting more than one Number at a single hit for faster delivery. You can submit a maximum of 100 Mobile numbers in one hit.

Single Message

`http://cloud.smsindiahub.in/vendorsms/pushsms.aspx?user=abc&password=xyz&msisdn=919898123456&sid=WebSMS&msg=Test message from SMS India Hub&fl=0`

Multiple Messages

`http://cloud.smsindiahub.in /vendorsms/pushsms.aspx?user=abc&password=xyz&msisdn=919898123456,919898001234&sid=WebSMS &msg=Test message from SMSHUB&fl=0`

The following are the parameters used:

Parameter name	Parameter Value	Description
user	abc	Your user name
password	xyz	Your password
msisdn	919898123456	Destination mobile number
sid	WebSMS	Sender Id/From clause in the SMS message.
msg	Test message from SMSINDIAHUB	Message to be sent
fl		Flash message indicator. 1 for Yes and 0 for No

Response:

Single Message

Recipient's Mobile number, the date stamp and a unique ID.

The Message Id : 919898123456-200612295008123

Multiple Message

The Message Id : 919898123456-200612295008123

The Message Id : 919898001234-200612295008924

Delivery Report

[http://cloud.smsindiahub.in/vendorsms/CheckDelivery.aspx?
user=abc&password=xyz&MessageID=919898123456-200612295008123](http://cloud.smsindiahub.in/vendorsms/CheckDelivery.aspx?user=abc&password=xyz&MessageID=919898123456-200612295008123)
Credit Blance

[http://cloud.smsindiahub.in /vendorsms/CheckBalance.aspx?
user=abc&password=xyz](http://cloud.smsindiahub.in /vendorsms/CheckBalance.aspx?user=abc&password=xyz)

Error Message

The following are the error messages returned by the smsindiahub.in gateway in case of Invalid parameters provided.

Failed#Invalid Login
Failed#Unauthorized Access
Failed#Unauthorized IP Address
Failed#Invalid Mobile Number
Failed#Invalid SenderID
Failed#Insufficient Credits

Note: Only the above-defined validations are performed at the server side.

All other validations for any parameter are required to be handled at the client side explicitly.

Message parameter details

Username (user)

The username value is passed for authentication purposes. The username is provided to the client when he registers for the HTTP API option from smsindiahub.in. The username (usr) parameter cannot be more than 20 characters long and can only contain alphabets and numbers, with no spaces or special characters.

Password (password)

The password parameter value is also passed in combination with the username for authentication purposes. The password is provided to the client along with the username when he registers with Smsindiahub.in for sending SMS messages Through the Gateway. The password (pass) parameter cannot have more than 20 Characters and can contain only alphabets and numbers, with no spaces or special characters.

Mobile Number (msisdn)

The mobile number parameter refers to the destination mobile number to which the message is to be sent. However, the mobile number is required to be in a specific format. Any error in this parameter value would lead to non-delivery of the message. The mobile number should contain only numbers. It must also include the country code at the start beginning. It should not contain any symbols (+) or 00 etc. and it must be a valid mobile number supported by the smsindiahub.in Gateway (All Indian Cellular Operators).

Message (msg)

The message parameter refers to the actual message that is to be sent to the destination mobile (msisdn). The behavior of the message parameter differs depending on the type of message being sent. The message parameter may consist of up to 160 characters belonging to the following set:

- A ... Z a...z 0...9
- Blank space
- The meta characters \ (line feed)

Due to restrictions in the HTTP protocol format, the following special characters must be encoded in order not to collide with reserved HTTP characters:

Character must be encoded as:

Character	Hexa-decimal Encoded String
&	%26
+	%2B
%	%25
#	%23
=	%3D

For simple text messages, the message can contain numbers, alphabets, spaces and certain special characters. However, the message can contain a maximum of 160 characters, including spaces.

In case of maximum number of characters exceed 160, message is treated as Long Message (Concatenated SMS) and is automatically split in multiple parts based on the length of the SMS. Our gateway can support maximum upto 459 characters of Long Message.

Note: In case of Long Message, credits are deducted accordingly.

Valuable Facts:

1. According to GSM specification, a standard SMS message can contain up to 140 bytes of data (payload).
2. GSM encoding represents characters using 7 bits instead of 8. This Therefore provides a maximum of 160 characters per SMS.
(140 * 8 bits) / 7 bits = 160 Character
3. A Concatenated SMS is formed from several standard SMS containing a 7 byte concatenation header (contains the information of various parts of the Message) at the beginning of each one. Since this 7 byte header is within the Message, it reduces the total size of each SMS to 153 characters each.

Number of SMS	Max Length
1	160
2	306
3	459

Sender Id (sid)

The sender Id parameter refers to the message dispatcher or from clause (THE SENDER), from whom the message is sent. The sender Id can either be a valid international number up to sixteen characters long or an eleven character alphanumeric string. The sender Id is an optional clause. In case the sender Id is not specified, the SMSC number is sent as the sender Id to the destination mobile

Sender Id in case of text messaging can only be made up of alphabets & digits. It cannot contain any special characters such as (-,+) etc.

Flash Message (fl)

Flash message parameter indicates whether the message will be a flashed on the destination mobile (msisdn). It can contain only the values (0 or 1). Default value for this parameter is 0. When the flash parameter is sent as 1 (fl=1), the SMS message is flashed on the destination mobile.

Value Description

0 Don't flash message.

1 Flash message on destination mobile screen

Thanks

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