

# **SMS HTTP API DOCUMENTATION December 2012**

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## 1.0) Introduction

This document is the official HTTP API connectivity guide for integrating with XGEN Technologies' SMS / Mobile Communication Network (WebSMS2u.com). This guide will bring you through the process of sending messages by simply submitting either a GET or a POST request to our API. Also included is the API building instructions for receiving forwarded incoming messages from WebSMS2u.com to your application on your server.

For sending of messages, we recommend users to use the POST method for submitting their requests due to the size limitation of GET as well as the HTTP request being exposed in the HTTP address bar.

This document will cover the following areas of connectivity:

- Sending normal text messages
- Sending UNICODE (UCS2) messages (Multi lingual)
- Sending UDH header messages (8 bit messages, EMS)
- Real Time transaction logs
- Error Codes
- Incoming SMS Forwarding API

2.0) Sending Normal Text Messages

7 input fields required:

No.	Parameter Name	Description
1	user	Username of the user/client
2	pass	The password for authentication
3	to	The recipient's mobile number (start with the country code in front of the number without the + sign. E.g. 60121234567)
4	from	The source name or sender's number. Supports alpha, alphanumeric and numeric character up to 16 characters for numeric only and 11 characters for alphanumeric.
5	text	The content of the message
6	type = 0	Represents that "text" is in URLencoded ASCII/alphabets.
7	msggateway	'normal' to use International Gateway / Set SenderID 'dipping' to use for Malaysian shortcode for MNP (Respective credit types are required else normal credit type will be selected)

Example of URL:

<http://www.websms2u.com/sms/sendapi.asp?user=user&pass=password&type=0&to=60121234567&from=xgentech&text=this+is+a+test+msg&msggateway=dipping>

\*Note: Maximum number of characters is 160 and any extra character will be truncated.

3.0) Sending UNICODE (UCS2) Messages (Multilingual)

7 input fields required:

No.	Parameter Name	Description
1	user	Username of the user/client
2	pass	The password for authentication
3	to	The recipient's mobile number (start with the country code in front of the number without the + sign. E.g. 60121234567)
4	from	The source name or sender's number. Supports alpha, alphanumeric and numeric character up to 16 characters for numeric only and 11 characters for alphanumeric.
5	text	The content of the message
6	type = 5	Represents that text is UCS formatted.
7	smgateway	'normal' to use International Gateway / Set SenderID 'dipping' to use for Malaysian shortcode for MNP (Respective credit types are required else normal credit type will be selected)

Example of URL:

<http://www.websms2u.com/sms/sendapi.asp?user=user&pass=password&type=5&to=60121234567&from=xgentechk&text=4e00&smgateway=dipping>

\*Note: Maximum number of Unicode characters in one message is 70.

\*\* To know more on Unicode, please refer to [www.unicode.org](http://www.unicode.org).

4.0) Sending UDH Header Messages (8bit)

8 input fields required:

No.	Parameter Name	Description
1	user	Username of the user/client
2	pass	The password for authentication
3	to	The recipient's mobile number (start with the country code in front of the number without the + sign. E.g. 60121234567)
4	from	The source name or sender's number. Supports alpha, alphanumeric and numeric character up to 16 characters for numeric only and 11 characters for alphanumeric.
5	text	This field is for the input of UDH statement in hexbin format
6	type=6	Represents that "text" is UDH formatted.
7	smsgateway	'normal' to use International Gateway / Set SenderID 'dipping' to use for Malaysian shortcode for MNP (Respective credit types are required else normal credit type will be selected)

Example of URL:

operator logo

<http://www.websms2u.com/sms/sendapi.asp?user=user&pass=password&type=6&to=60121234567&from=xgentech&smsgateway=dipping&text=0605041582158205F26100480E01014809B0001DFF780000A816CC000300F00001E00040003A00200000000040001000F00000C00040001001F00000200940001921100000100940001920100000600B40001000F000008000A00013F0DC000081C0A0005409F8000071472000B7F83C00000940200043F00C000004C14001F000380000027E800078E0F800>

5.0) Real Time Transactional Log, Credit Balance Checks, Credit Transfers

There are two ways to check Log & Status of message sent through your account.

**1) WEB ACCESS**

User will be able to check their transaction real time by logging into this URL :

<http://www.websms2u.com/sms/>

User will need to use their provided user ID and password to log in.

From the SMS Log, users will be able to view transaction logs of each message sent over the past three months; which includes details such as: SMSID, Date, Time, SenderID, Destination Number, Text and Message Status.

**2) HTTP API ACCESS**

No.	Parameter Name	Description
1	user	Username of the user/client
2	pass	The password for authentication
3	action	Available actions are: getbalcredit, getbalcreditdip, transfercredit, transfercreditdip, checkstatus
4	amt	* To be used with transfercredit, transfercreditdip action; Specify the amount of credit to transfer
5	to	* To be used with transfercredit, transfercreditdip action; Specify recipient of the credit transfer
6	phone	** To be used with checkstatus action; Destination mobile number of sent SMS (matching smsid in point no.7)
7	smsid	** To be used with checkstatus action; SMSID of sent SMS (matching phone in point no.6)

### CHECK MESSAGE STATUS

Example of URL:

<http://www.websms2u.com/sms/intapi.asp?user=user&pass=password&action=checkstatus&phoneno=60121234567&smsid=12345>

RESPONSE	DESCRIPTION
messageid,phoneno,status,date/time sent	messageid,phoneno,status,date/time sent

### CHECK NORMAL CREDIT BALANCE

Example of URL:

<http://www.websms2u.com/sms/intapi.asp?user=user&pass=password&action=getbalance>

RESPONSE	DESCRIPTION
Credit Balance	Shows the Normal Credit Balance

### CHECK DIPPING CREDIT BALANCE

Example of URL:

<http://www.websms2u.com/sms/intapi.asp?user=user&pass=password&action=getbalanceeditdip>

RESPONSE	DESCRIPTION
Credit Balance	Shows the Dipping Credit Balance

### TRANSFER NORMAL CREDIT

Example of URL:

<http://www.websms2u.com/sms/intapi.asp?user=user&pass=password&action=transfercredit&amt=creditamount&to=account>

RESPONSE	DESCRIPTION
200	Credit transferred successfully

### TRANSFER DIPPING CREDIT

Example of URL:

<http://www.websms2u.com/sms/intapi.asp?user=user&pass=password&action=transfercreditdip&amt=creditamount&to=account>

RESPONSE	DESCRIPTION
200	Credit transferred successfully



6.0) Error Codes

For all submission of HTTP GET or POST for all types of messages stated above, a code will be return to acknowledge whether a particular request has been submitted correctly. Below is a list of codes with their corresponding description:

**SENDAPI.API ERROR CODES**

<b>RESPONSE</b>	<b>DESCRIPTION</b>
200	Message sent to queue successfully.
300	Unsuccessful Gateway Connection.
400	Missing parameters or invalid type field.
401	Invalid user/pass.
402	Insufficient credit.

**INTAPI.API ERROR CODES**

<b>RESPONSE</b>	<b>DESCRIPTION</b>
400	Missing parameters or invalid type field.
401	Invalid user/pass.
402	Invalid action/request.
403	Invalid transfer "to" user
404	Insufficient credit for transfer
500	Unable to locate message and phone combination

7.0) Incoming SMS Forwarding API

5 captured fields are passed/forwarded to your application at your preset URL:

No.	Parameter Name	Description
1	from	The sender's number (E.g. 60121234567)
2	text	- The message which the sender has sent to your account (E.g. SMS ACCOUNT TEXT). "SMS ACCOUNT" is cropped off and not forwarded together. Just the "TEXT" portion will be forwarded. - Normal Text and Unicode Text are accepted.
3	time	The local server time at which the message has been received and forwarded
4	msgid	This is a unique identification MessageID used for tracking and troubleshooting purposes.
5	shortcode	This is the shortcode number which the user has used to send incoming message to your account (E.g. 32355)

Example of URL:

<http://www.yourdomain.com/receive.php?from=60121234567&text=Test%20Message&time=2007/01/05%2012:00&msgid=1&shortcode=32355>

\*Note: Each incoming message should have a total length of 160 characters (or Unicode equivalent) including the words "SMS ACCOUNT". Messages which are longer than 160 characters will be truncated & cropped off.

Submission Method: POST & GET Methods will be used to submit details to your application.

Response: To provide a responded reply by your application, simply provide a return string (without headers) with no more than 153 characters and our system will pick it up and send it back to the submitting mobile number.

Syntax appearing on user's Mobile will be as follows:

- 1) If Mobile User is paying for the inbound message then the message will start of with "RM0.30 <Followed by your respond/reply text>"
- 2) If Mobile User is not paying for the inbound message (i.e. 2 credits deducted from your account instead) then the message will start of with "RM0.00 <Followed by your respond/reply text>"

Note: Charges & Respond/Reply Settings are made via your WebSMS2u Account.