

		Document: SMS API Interface	
		Scope: Public	
Author	Version	Date	Notes
Nick Branson	2.0	16 th October 2007	Document revised
Nick Branson	2.0.1	15 th February 2008	Revisions to available features
Peter Lowe	2.0.2	8 th May 2009	Minor revisions

SMS API Interface Specification Version 2.0.1

This document is intended for technical personnel who wish to directly access Sign-Up.to's SMS functionality over HTTP. Note that in order to directly access our SMS functionality it is essential that you have a Sign-Up.to account with direct SMS activated. Contact solutions@sign-up.to if you need to arrange this.

This document includes functionality for MO (Mobile Originated) and MT (Mobile Terminated) messages, for both long GSM (e.g. 447624802887) and short code (e.g. 61211) numbers.

Set-up

We'll need to know any IP addresses you'd like to be able to action send requests from, and the URL you'd like to have incoming SMS messages sent to. These should all be stated in your Direct SMS Account Activation notes, please ensure these details are correct.

All clients who have access to the main web interface (<http://secure.sign-up.to/>) can find their API access details under the 'Account' tab. The hash and cid are listed, and the IP addresses of any servers accessing the API can be added there.

Your Sign-Up.to account will have to have the necessary pre-paid SMS credit balance. You can add credits by logging into your account and selecting the 'Purchase SMS Credits' option in the 'Account' section.

Functions

The SMS API provides the following functions:

- [Sending messages](#)
- [Delivery status](#)
- [Account balance](#)
- [Receiving messages](#)
- [Message retrieval](#)
- [Keyword retrieval](#)
- [Received statistics](#)

Initial Testing

We strongly advise new connections are tested in a structured manner before using our connections for any official or commercial purposes. Once we've advised that the new connection is ready, our testing routine is as follows:

1. Check MO messages reach your system (if applicable.)
2. Test MT services.

Sending Messages

The Direct SMS HTTP interface can be found at this URL:

http://sms.sign-up.to/smpp_send.php

In order to successfully send an SMS message, it requires the following parameters to be passed in a HTTP GET request. Items in *italics* are optional, and explained later.

The script will simply return an *integer* (e.g. 123456) on success or the *string* "fail" depending on the circumstances.

The integer returned on success is our internal message reference, which can be used to determine message delivery status using the [delivery status](#) functionality.

Required parameters:

<i>cid</i>	-	Account Identifier.
<i>hash</i>	-	Encrypted access hash.
<i>to</i>	-	Recipient mobile number in full international format (no "+" or "00"; e.g.: 447624802887)
<i>message</i>	-	Message body text

Please note that the message body text should be between 1 and 160 characters in length, and that spaces must be represented by either "+" symbols or "%20".

Optional parameters:

<i>from</i>	-	<i>SMS sender</i>
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You may wish to set the SMS sender, which will be displayed on the recipient's handset. This may be passed as an additional GET request, please note that this can be a maximum of eleven characters.

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Delivery Status

Delivery status of a message can be requested at this URL:

http://sms.sign-up.to/smpp_status.php

In order to successfully request a delivery status, it requires the following variables to be passed in a HTTP GET request:

cid	-	Account Identifier.
hash	-	Encrypted access hash.
mobile	-	Mobile number to report delivery status on
log	-	log id, as passed with original message to your script

When this request is made, the system will respond with either "delivered", "pending" or "failed". "delivered" and "failed" are terminal responses, "pending" may or may not be later updated to "delivered" or "failed" depending on any updates we receive from the mobile network in question.

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Account Balance

In order to monitor your account balance, you can go to the following URL:

http://sms.sign-up.to/smpp_account.php

In order to successfully request your SMS balance, it requires the following variables to be passed in a GET request:

cid	-	Account Identifier.
hash	-	Encrypted access hash.
mode	-	This should be set to balance

When this request is called, the system will respond with either your account balance in credits or "fail" depending on you sending the correct access details.

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Receiving Messages

(only applicable if you have requested MO connection)

When a message is received, your URL will be called with the following parameters, using an HTTP GET request:

to	-	Full destination number
from	-	Full international mobile number of the message originator
time	-	Time at which the message was sent
message	-	Message body
counter	-	An incrementing integer identity for this message

The "counter" variable allows you to track messages you receive from us. Your first message will have the value "1", and it'll increment every time. Therefore if you find any "holes" in the counter number, you've not received those messages from us, and can use the retrieval URL to complete your records.

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Message Retrieval

If, as described above, you find there are messages missing that you should have received from us, you can request them again at this URL:

http://sms.sign-up.to/smpp_retrieve.php

In order to successfully request an SMS message, it requires the following parameters to be passed in a HTTP GET request:

cid	-	Account Identifier.
hash	-	Encrypted access hash.
counter	-	The ID of the message you require
to	-	The number the message would have been originally sent to

When this request is called, the system will respond with either "success" or "fail" depending on you sending the correct access details. If your request was successful, the system will repeat its call to your specified URL for receiving messages.

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Keyword Retrieval

In order to be informed of any keywords you currently have setup for inbound SMS messages, you can request them at this URL:

<http://sms.sign-up.to/keyword.x>

The system requires the following parameters to be passed in a HTTP GET request:

cid	-	Account Identifier.
hash	-	Encrypted access hash.
mode	-	Pass the value 'list'

This will return a string containing any keywords and inbound numbers assigned to your account. The keyword and inbound number will be separated by a comma, and each keyword / number combination will be returned on a separate line. For example, if your account can accept the keyword 'beetroot' on both a shortcode and a long GSM number, the application will return:

```
beetroot,61211  
beetroot,447624802887
```

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SMS Received Statistics

In order to be informed of the number of received SMS messages in a specified timeframe, you can request them at this URL:

<http://sms.sign-up.to/received.x>

The system requires the following parameters to be passed in a HTTP GET request:

cid - Account Identifier.
hash - Encrypted access hash.

Additionally, you must pass one of the following:

startDate - The start date and time in the format:
YYYY-MM-DD hh:mm:ss

and

endDate - The end date and time in the format:
YYYY-MM-DD hh:mm:ss

or

period - One of: Today, Yesterday, ThisWeek, LastWeek,
ThisMonth, LastMonth, ThisYear, LastYear

This will return a single integer for the amount of messages found in the specified timeframe.

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Contact Details

For technical help and support please contact:

support@sign-up.to

UK Local Rate: 0845 299 0119 (9.30am - 6.00pm GMT Weekdays)
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