



SMS API TECHNICAL SPECIFICATION

Version 2.0

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1: Introduction

This document describes the interface for the Click SMS Gateway and how to connect to our messaging platform to send Mobile Terminated SMS messages to UK and International mobile numbers.

The main features provided with the Click SMS API are as follows:

- Schedule SMS messages for future delivery.
- Send SMS messages up to 459 characters long.
- Receive SMS message delivery confirmation.
- Set message Sender ID.
- Check SMS credit.

The SMS API Technical Specification has been designed to provide developers with a detailed description of the functionality available via the SMS API; the submission parameters and valid data values, HTTP POST request and response examples and character encoding regimes. However, if any queries arise then please contact Click SMS Customer Support – see below for details.

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2: Submitting SMS Messages

A SMS message is submitted to our messaging server via a XML over HTTP POST. Received parameters and values are checked and if valid the message is queued for delivery. The HTTP response returned indicates the status of the submitted request.

If a SMS delivery confirmation is required then this is specified in the SMS message submission request together with the reply URL. The delivery confirmation is sent to this URL via a XML over HTTP POST. If the specified URL is unreachable or an invalid response is returned then further attempts are made until the correct response is returned indicating success, or the time-out period of 48 hours is reached.

Note: Destination URL for all requests: <https://service.clicksms.co.uk>.

2.1 Submit SMS Message – Request

2.1.1 Request Parameters - Required

Name	Description	Example
Txn	The XML transaction name. Identifies this XML transaction to the Click SMS server. Set to submitsms for sending SMS messages to one or more mobile numbers.	submitsms
AccountID	Account ID.	myloginid
Password	Account password.	mypassword
Message	SMS Message text – maximum 459 characters.	The message
RateCode	1 - (UK), 2 - (International).	1
Mobiles	Container element for 'MobileNo' parameter(s).	(empty)
MobileNo	Remove the '+' sign and any leading zeros when using international codes. A UK number can start '07' or '447'.	07123456789

2.1.2 Request Parameters - Optional

Name	Description	Example
SenderID	The name shown on the recipient mobile handset as the sender of the message. Numeric – max length 15, Alphanumeric – max length 11 [a-z] [A-Z] [0-9] _-, no spaces. Default value: ClickSMS.	ClickSMS
ConfirmDelivery	0 – Don't confirm delivery, 1 – Confirm delivery. Default value: 0.	1
ReplyPath	The destination URL for the delivery confirmation. Required if ConfirmDelivery = 1. Do not specify the 'http://' prefix in your reply path. Maximum length – 120 characters.	www.myserver.co.uk/smsrec
ReplyKey	The reply key text to be returned with the delivery confirmation. Optional if ConfirmDelivery = 1. Maximum 50 characters. Default value: (unique id set by Click SMS).	156243
SubmitAt	Submit for future delivery – Format: yyyyMMddhhmm. (Scheduled messages can be managed via the web service). Note: Long SMS messages are not currently supported for message scheduling.	200605201755
EnableEncoding	0 – Encoding disabled for message text, 1 – Encoding enabled for message text. Default value: 0. ISO-8859- (Latin1) character set supported – see end of document for available character encodings.	1
LongSMS	0 – Long SMS disabled, 1 – Long SMS enabled. Default value: 0. Enabling LongSMS allows messages longer than the standard 160 characters, up to 459 (3 x 153) characters in length. Note: Message scheduling is not currently supported for long SMS messages.	1

2.1.3 Example: Submit SMS Message - Request

POST * HTTP/1.1

From: www.myserver.co.uk

Host: service.clicksms.co.uk

Content-Type: text/xml

Content-Length: 228

```
<Msg>
  <Txn>submitsms</Txn>
  <AccountID>myaccountid</AccountID>
  <Password>mypassword</Password>
  <Message>test message</Message>
  <RateCode>1</RateCode>
  <Mobiles>
    <MobileNo>07123456701</MobileNo>
    <MobileNo>07123456702</MobileNo>
  </Mobiles>
</Msg>
```

2.2 Submit SMS Message – Response

2.2.1 Response Parameters

Name	Description	Example
JobId	Unique id set by Click SMS.	156243
SubmitResult	Container element for the response status of each mobile number sent a message in the Submit SMS Message request.	(empty)
MobileNo	The submitted mobile number.	07123456789
StatusId	The status of the submitted message. 0 – Message submitted successfully. See below for full list of submission status codes returned and descriptions.	0
StatusText	The status ID description text.	Message submitted successfully

2.2.2 Example: Submit SMS Message - Response

HTTP/1.1 200 OK

Server: ClickSMS

Content-Type: text/xml

Content-Length: 322

```
<Msg>
  <JobId>20154010</JobId>
  <SubmitResult>
    <MobileNo>07123456701</MobileNo>
    <StatusId>0</StatusId>
    <StatusText>Success: Message submitted successfully</StatusText>
  </SubmitResult>
  <SubmitResult>
    <MobileNo>07123456702</MobileNo>
    <StatusId>0</StatusId>
    <StatusText>Success: Message submitted successfully</StatusText>
  </SubmitResult>
</Msg>
```

2.2.3 Submit SMS Message – Response Status ID’s and Descriptions

Status ID	Status Text
0	Success: Message submitted successfully
1	Error: Missing or badly formatted XML parameter(s)
2	Error: Missing or badly formatted request value(s)
3	Error: Invalid account ID/password combination
4	Error: Message length too long, greater than 160 characters
5	Error: Message length too long, greater than 459 characters
6	Error: Invalid rate code supplied
7	Error: Insufficient SMS credits available for specified rate code
8	Error: Invalid or badly formatted mobile number
9	Error: Invalid sender id. Max length: 11, [a-z] [A-Z] [0-9], no spaces
10	Error: Invalid delivery confirmation indicator
11	Error: Reply path required for delivery confirmation
12	Error: Invalid or badly formatted URL reply path
13	Error: Reply path length too long. Max length 120 characters
14	Error: Reply key length too long. Max length 50 characters
15	Error: No valid mobile numbers supplied
16	Error: Too many mobile numbers supplied (Max: 500)
17	Error: Group sub-account is currently disabled
18	Error: Insufficient SMS credits available on group sub-account for specified rate code.
19	Error: Insufficient SMS credits available on group administrator account for specified rate code.
20	Error: Invalid date/time for scheduled delivery, bad format or in the past
21	Error: Scheduling is not currently available for long SMS messages
40	Error: System error! - Contact Click SMS
41	Error: System error! - Contact Click SMS
42	Error: System error! - Contact Click SMS

3: Checking SMS Credit

Check the number of UK or International SMS message credits remaining on your account.

3.1 Check SMS Credit – Request

3.1.1 Request Parameters

Name	Description	Example
Txn	The XML transaction name. Identifies this XML to transaction to the Click SMS server. Set to getsmscredit .	getsmscredit
AccountID	Valid login account ID.	myloginid
Password	Valid login account password.	mypassword
RateCode	1 - (UK), 2 - (International).	1

3.1.2 Example: Check SMS Credit - Request

POST * HTTP/1.1

From: www.myserver.co.uk

Host: service.clicksms.co.uk

Content-Type: text/xml

Content-Length: 128

```
<Msg>
  <Txn>getsmscredit</Txn>
  <AccountID>myaccountid</AccountID>
  <Password>mypassword</Password>
  <RateCode>1</RateCode>
</Msg>
```

3.2 Check SMS Credit - Response

3.2.1 Response Parameters

Name	Description	Example
StatusId	The status of the SMS credit check. 0 – Request processed successfully.	0
RateCode	Confirmation of the rate code for the SMS credit check.	1
CreditsRemaining	The number of credits remaining for the requested rate code.	452

3.2.2 Example: Check SMS Credit - Response

HTTP/1.1 200 OK

Server: ClickSMS

Content-Type: text/xml

Content-Length: 92

```
<Msg>
  <StatusId>0</StatusId>
  <RateCode>1</RateCode>
  <CreditsRemaining>452</CreditsRemaining>
</Msg>
```

4: Receiving SMS Delivery Confirmation

If a delivery confirmation has been requested in the outbound SMS message submission then this is sent via a XML over HTTP POST to the specified reply URL.

If the specified URL is initially unreachable or returns an incorrect response then retries are attempted at the following intervals - 1 minute, 5 minutes, 10 minutes, 20 minutes, 30 minutes, and then every 30 minutes for 48 hours. After this period no further attempts are made.

4.1 Receive SMS Delivery Confirmation – Request

4.1.1 Request Parameters

Name	Description	Example
Txn	The XML transaction name. Set to: smsdelreceipt .	smsdelreceipt
JobId	Unique id set by Click SMS, matches the id returned in the message submission response.	156243
MobileNo	The mobile number that received the message.	07123456701
ReplyKey	The reply key text set on message submission.	myreplykeytext
StatusId	The message delivery status. See on next page for full list of status codes returned.	0
StatusDate	The date and time of the message delivery status. Format: <code>yyyymmddhhmm</code>	200508031555
StatusText	The delivery status id description text.	Success: Message Delivered.
MsgTotalSegs	The total number of segments (1 segment = 153 characters) in a SMS message longer than 160 characters. Set to '0' for SMS messages 160 characters or less in length.	3
MsgSegNum	The segment number of a SMS message greater than 160 characters. Where segment '1' is the first part of the long SMS message. Set to '0' for SMS messages 160 characters or less in length.	1

4.1.2 Example: Receive SMS Delivery Confirmation - Request

POST / HTTP/1.1

From: service.clicksms.co.uk

Host: www.yourserver.co.uk

Content-Type: text/xml

Content-Length: 210

```
<Msg>
  <Txn>smsdelreceipt</Txn>
  <JobId>156243</JobId>
  <MobileNo>07123456701</MobileNo>
  <ReplyKey>myreplykeytext</ReplyKey>
  <StatusId>0</StatusId>
  <StatusDate>200908031555</StatusDate>
  <StatusText>Success: Message delivered</StatusText>
  <MsgTotSegs>0</MsgTotSegs>
  <MsgSegNum>0</MsgSegNum>
</Msg>
```

4.1.3 Receive SMS Delivery Confirmation - Status ID's and Descriptions

Status ID	Status Text
0	Success: Message delivered
1	Failed: Invalid, blacklisted or barred mobile number
2	Failed: Phone may be switched off or out of coverage
3	Failed: Mobile operator network error
4	Failed: Phone error; sim card full, memory exceeded etc
5	Failed: Handset incompatible or message barred by user
30	Failed: Reason unknown.

4.2 Receive SMS Delivery Confirmation – Response

4.2.1 Example: Receive SMS Delivery Confirmation - Response

HTTP/1.1 200 OK

Server: www.yourserver.co.uk

Content-Type: text/xml

Content-Length: 29

```
<Msg><Status>0</Status></Msg>
```

Note: Returning the '`<Msg><Status>0</Status></Msg>`' in the HTTP response lets the Click SMS system know that the delivery confirmation has been received by your server, therefore halting any retry attempts to resend the data.

5: Character Sets and Encodings

Click SMS supports the ISO-8859- (Latin1) character set with optional hex encoding. The actual characters delivered to the handset are product specific.

5.1 Special Characters

The following characters (literal or encoded) - part of the GSM Extended character set - use 2 characters in terms of the message length: [] { } \ ~ ^ | €

5.2 ISO-8859- (Latin1) Character Set

20	SP	SPACE	48	H	CAPITAL LETTER H
21	!	EXCLAMATION MARK	49	I	CAPITAL LETTER I
22	"	QUOTATION MARK	4A	J	CAPITAL LETTER J
23	#	NUMBER SIGN	4B	K	CAPITAL LETTER K
24	\$	DOLLAR SIGN	4C	L	CAPITAL LETTER L
25	%	PERCENT SIGN	4D	M	CAPITAL LETTER M
26	&	AMPERSAND	4E	N	CAPITAL LETTER N
27	'	APOSTROPHE	4F	O	CAPITAL LETTER O
28	(	LEFT PARENTHESIS	50	P	CAPITAL LETTER P
29	)	RIGHT PARENTHESIS	51	Q	CAPITAL LETTER Q
30	0	DIGIT ZERO	52	R	CAPITAL LETTER R
31	1	DIGIT ONE	53	S	CAPITAL LETTER S
32	2	DIGIT TWO	54	T	CAPITAL LETTER T
33	3	DIGIT THREE	55	U	CAPITAL LETTER U
34	4	DIGIT FOUR	56	V	CAPITAL LETTER V
35	5	DIGIT FIVE	57	W	CAPITAL LETTER W
36	6	DIGIT SIX	58	X	CAPITAL LETTER X
37	7	DIGIT SEVEN	59	Y	CAPITAL LETTER Y
38	8	DIGIT EIGHT	5A	Z	CAPITAL LETTER Z
39	9	DIGIT NINE	5B	[	LEFT SQUARE BRACKET
40	@	COMMERCIAL AT	5C	\	REVERSE SOLIDUS
41	A	CAPITAL LETTER A	5D	]	RIGHT SQUARE BRACKET
42	B	CAPITAL LETTER B	5E	^	CIRCUMFLEX ACCENT
43	C	CAPITAL LETTER C	5F	_	LOW LINE
44	D	CAPITAL LETTER D	60	`	GRAVE ACCENT
45	E	CAPITAL LETTER E	61	a	SMALL LETTER A
46	F	CAPITAL LETTER F	62	b	SMALL LETTER B
47	G	CAPITAL LETTER G	63	c	SMALL LETTER C

64	d	SMALL LETTER D
65	e	SMALL LETTER E
66	f	SMALL LETTER F
67	g	SMALL LETTER G
68	h	SMALL LETTER H
69	i	SMALL LETTER I
6A	j	SMALL LETTER J
6B	k	SMALL LETTER K
6C	l	SMALL LETTER L
6D	m	SMALL LETTER M
6E	n	SMALL LETTER N
6F	o	SMALL LETTER O
70	p	SMALL LETTER P
71	q	SMALL LETTER Q
72	r	SMALL LETTER R
73	s	SMALL LETTER S
74	t	SMALL LETTER T
75	u	SMALL LETTER U
76	v	SMALL LETTER V
77	w	SMALL LETTER W
78	x	SMALL LETTER X
79	y	SMALL LETTER Y
7A	z	SMALL LETTER Z
7B	{	LEFT CURLY BRACKET
7C	|	VERTICAL LINE
7D	}	RIGHT CURLY BRACKET
7E	~	TILDE
A0		NO-BREAK SPACE
A1	¡	INVERTED EXCLAMATION
A2	¢	CENT SIGN
A3	£	POUND SIGN
A4	¤	CURRENCY SIGN
A5	¥	YEN SIGN
A6	¦	BROKEN BAR
A7	§	SECTION SIGN
A8	¨	DIAERESIS
A9	©	COPYRIGHT SIGN
AA	ª	FEMININE ORDINAL INDICATOR
AB	«	LEFT DOUBLE ANGLE QUOTATION
AC	¬	NOT SIGN
AD	-	SOFT HYPHEN
AE	®	REGISTERED SIGN
AF	–	MACRON
B0	°	DEGREE SIGN
B1	±	PLUS-MINUS SIGN
B2	²	SUPERSCRIP TWO
B3	³	SUPERSCRIP THREE
B4	´	ACUTE ACCENT
B5	µ	MICRO SIGN
B6	¶	PILCROW SIGN
B7	·	MIDDLE DOT
B8	¸	CEDILLA
B9	¹	SUPERSCRIP ONE
BA	º	MASCULINE ORDINAL INDICATOR
BB	»	RIGHT DOUBLE ANGLE QUOTATION
BC	¼	FRACTION ONE QUARTER
BD	½	FRACTION ONE HALF
BE	¾	FRACTION THREE QUARTERS
BF	¿	INVERTED QUESTION MARK
C0	À	CAPITAL LETTER A WITH GRAVE
C1	Á	CAPITAL LETTER A WITH ACUTE
C2	Â	CAPITAL LETTER A CIRCUMFLEX
C3	Ã	CAPITAL LETTER A WITH TILDE
C4	Ä	CAPITAL LETTER A WITH DIAERESIS
C5	Å	CAPITAL LETTER A RING ABOVE
C6	Æ	CAPITAL LETTER AE
C7	Ç	CAPITAL LETTER C WITH CEDILLA
C8	È	CAPITAL LETTER E WITH GRAVE
C9	É	CAPITAL LETTER E WITH ACUTE
CA	Ê	CAPITAL LETTER E CIRCUMFLEX
CB	Ë	CAPITAL LETTER E WITH DIAERESIS
CC	Ì	CAPITAL LETTER I WITH GRAVE
CD	Í	CAPITAL LETTER I WITH ACUTE
CE	Î	CAPITAL LETTER I CIRCUMFLEX
CF	Ï	CAPITAL LETTER I DIAERESIS
D0	Ð	CAPITAL LETTER ETH
D1	Ñ	CAPITAL LETTER N WITH TILDE
D2	Ò	CAPITAL LETTER O WITH GRAVE

D3	ó	CAPITAL LETTER O WITH ACUTE	EA	ê	SMALL LETTER E CIRCUMFLEX
D4	ô	CAPITAL LETTER O CIRCUMFLEX	EB	ë	SMALL LETTER E DIAERESIS
D5	õ	CAPITAL LETTER O WITH TILDE	EC	ì	SMALL LETTER I WITH GRAVE
D6	ö	CAPITAL LETTER O DIAERESIS	ED	í	SMALL LETTER I WITH ACUTE
D7	×	MULTIPLICATION SIGN	EE	î	SMALL LETTER I CIRCUMFLEX
D8	ø	CAPITAL LETTER O WITH STROKE	EF	ï	SMALL LETTER I WITH DIAERESIS
D9	ù	CAPITAL LETTER U WITH GRAVE	F0	ð	SMALL LETTER ETH
DA	ú	CAPITAL LETTER U WITH ACUTE	F1	ñ	SMALL LETTER N WITH TILDE
DB	û	CAPITAL LETTER U CIRCUMFLEX	F2	ò	SMALL LETTER O WITH GRAVE
DC	ü	CAPITAL LETTER U DIAERESIS	F3	ó	SMALL LETTER O WITH ACUTE
DD	ý	CAPITAL LETTER Y WITH ACUTE	F4	ô	SMALL LETTER O CIRCUMFLEX
DE	þ	CAPITAL LETTER THORN	F5	õ	SMALL LETTER O WITH TILDE
DF	ß	SMALL LETTER SHARP S	F6	ö	SMALL LETTER O DIAERESIS
E0	à	SMALL LETTER A WITH GRAVE	F7	÷	DIVISION SIGN
E1	á	SMALL LETTER A WITH ACUTE	F8	ø	SMALL LETTER O WITH STROKE
E2	â	SMALL LETTER A CIRCUMFLEX	F9	ù	SMALL LETTER U WITH GRAVE
E3	ã	SMALL LETTER A WITH TILDE	FA	ú	SMALL LETTER U WITH ACUTE
E4	ä	SMALL LETTER A DIAERESIS	FB	û	SMALL LETTER U CIRCUMFLEX
E5	å	SMALL LETTER A RING ABOVE	FC	ü	SMALL LETTER U DIAERESIS
E6	æ	SMALL LETTER AE	FD	ý	SMALL LETTER Y WITH ACUTE
E7	ç	SMALL LETTER C WITH CEDILLA	FE	þ	SMALL LETTER THORN
E8	è	SMALL LETTER E WITH GRAVE	FF	ÿ	SMALL LETTER Y DIAERESIS
E9	é	SMALL LETTER E WITH ACUTE	20AC	€	EURO SIGN