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FTP API Specification V2.7



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Important Notice

This API is only supported on Clickatell's SMS Gateway.

Note that no new accounts are being set up, except in very specific circumstances.

This document is provided for historical reasons only, and some of the APIs may no longer be available.



1. Overview

This technical document is intended for developers who wish to use the Clickatell FTP API for sending messages and describes the various programming methods and commands used by developers when using this API.

The FTP API allows you to send SMS messages using an FTP client, it is best suited for bulk SMS sending. To send messages you must create a file containing a list of recipient phone numbers which you then submit to our FTP server. The Clickatell server will then deliver the message/s to the intended recipient while performing regular checks to ensure delivery is completed.

To use this API, you need to add an FTP API to your Developers' Central account you will be asked to name your API and choose a password. An api_id will be allocated to your API automatically. Once you have registered and been activated you will receive 10 free credits with which to test our service. Messages sent with these credits contain a prepopulated Clickatell message. You can test the API using these credits, and purchase credits to start sending your own, customized messages.

Testing the Clickatell Gateway

Clickatell offers a test number range which will assist in reducing testing costs. Messages sent to any number on this prefix will only be charged 1/3 of a credit. When testing the Clickatell gateway you can use the number 279991xxxxx (for South Africa) or 1999xxxxxxx (for the U.S.) where "xxxxx" represents any numeric string. The status of your messages will be returned.

We will cover the FTP method in this document. Additional documentation is available for the other methods.

2. Introduction

The product is intended for clients who can build up a text file, based on an existing database of recipients. A text file will be uploaded to Clickatell's FTP site. This method is suitable for sending bulk messages by sending multiple messages with each FTP upload. It can either be a single message to all recipients or multiple personalized messages to each recipient. We recommend batch sizes of up to 50 000 messages per file. You may upload any number of such files to send messages.

The maximum size of your FTP folder on ftpupload.clickatell.com is 50MB which includes log files. Once this capacity limit is reached, you will need to delete files before new files may be added. Files are automatically deleted 48 hours after last modification. Each line in the text file may be a maximum of 8192 bytes.

Important: If you are sending individual messages, it is recommended that you use one of our messaging APIs for real-time sending such as HTTP, REST, SOAP, XML or COM Object. For sending messages in bulk, it is recommended that you use the SMTP or FTP APIs



3. Getting started

In order to use the Clickatell gateway you need a Clickatell account and at least one registered connection (API sub-product instance) between your application and our gateway. Each connection method is known as a sub-product (of our API product). You can follow these steps to get started:

Step 1 – Login to your account

When you have logged in you will be on the Clickatell Central landing page. You will receive 10 free credits which you can use to test the Clickatell Gateway. Please note that for security reasons these 10 credits contain pre-set Clickatell content.

An HTTP API will be added to your account for you. This will allow you to start testing the Clickatell Gateway immediately. You can purchase credits when you are ready to start sending personalized messages.

Step 2 – Adding an FTP API to your account

To add an FTP API to your account, select **APIs** from the main menu and then select **Setup a new API** from the submenu. Click the Add FTP API button on the Setup API page that opens. You can then complete all the required details to configure your API.

After successfully adding a connection, a confirmation message will be displayed with a unique API ID and information on how to get started.

The getting started section displays the API connection parameters and authentication details. These details are required when connecting to the Clickatell gateway to send a message.

Note: For more information on managing your API connections within your Clickatell account see our API guide at http://www.clickatell.com/help-support/developer-apis/clickatell-api/

4. Basic text file structure

To send an SMS message using the Clickatell FTP upload facility, the system interprets variables that you pass through in the uploaded text file. Each line in the text file may be a maximum of 8192 bytes and represents a variable in the form of:

variablename:value variablename:value variablename:value

We endeavor to strip any superfluous white space that may occur either side of the colon, however, to avoid any erroneous characters appearing from the text file, we suggest that you keep to the format shown above.



Note: We accept plain-text files with DOS, MAC or UNIX line breaks.

4.1. Authentication within the text file to be uploaded

To deliver a message, the system needs to authenticate the request as coming from a valid source. Account details are therefore included when creating your text file to upload into your FTP folder. These account details are:

user: Your main Clickatell account username.

api_id: This is the unique identifier of your API.

password: Your Developers' Central account password.

You can upload multiple files on the same FTP account simultaneously.

A log file will be generated as messages are processed. The log file will be available in your FTP directory and will have the same name as your uploaded file, with the added extension ".log". See the section entitled LOG FILE FORMAT AND REPORTS for the format.

Example:

api_id:1234

user:xxxxxxxxx

password:xxxxxxxxxxx

4.2. Send a message

Once you have set up the three authentication variables listed above, there are only a further two parameters that are required before you can send an SMS via FTP.

This parameter sets the destination address. You may send the same SMS to one or more recipients in a single text file. There are two ways to achieve this: either using comma-delimited destination addresses (ensure that there are no spaces before or after the comma) or using a line for every address.

Example:

All on one line (up to a maximum of 8192 bytes)

or multiple lines (the preferred method)

to:xxxxxxxxxxxxxxxx

to:xxxxxxxxxxxxxxxx

to:xxxxxxxxxxxxxxx

to:xxxxxxxxxxxxxxxx



You can optionally insert new lines /line breaks into your SMS message by using multiple 'text' parameters. Please note that line breaks (new lines) use up to two character spaces.

Example:

Text File:	Resultant SMS:
text:Line 1	Line 1
text:Line 2	Line 2
text:Line 3	Line 3

We are now ready to send an SMS.

Example:

api_id:1234

user:xxxxxxxxx password:xxxxxxxxxxx

to:1234567890,1234567890

text:This is my first test SMS

All parameters that can be used in the text file are discussed in detail under the section titled "Message Parameters in Detail".

5. Uploading to Clickatell FTP site

The files themselves should be uploaded to our FTP site: ftpupload.clickatell.com.

This can be accessed through a web browser that supports FTP, by typing in the following URL: ftp://ftpupload.clickatell.com

The FTP login (API ID) and FTP Password are used to log into your FTP folder on ftpupload.clickatell.com. This FTP password can be obtained/set up by logging into your online account, going to *APIs -> Manage APIs* and then clicking the *Edit* link for your chosen FTP API.

login/username (api_id): This is the unique identifier of your FTP API. password: This is the password you set up for the FTP API.

The maximum size of your FTP folder on ftpupload.clickatell.com is 50MB. Once this capacity limit is reached, you will need to delete files before new files may be added.



6. Log file format and reports

The log file consists of a single line for every mobile number that you have sent to, via your uploaded file. On each line there will be the destination address and either a unique message ID, or a validation error code with a description. The complete list of errors can be found in <u>Appendix A</u>. Please note that a message ID (apiMsgld) only indicates that the system is able to process the message and is not an indication of successful delivery.

Example:

ID: b2ffff503d348a0af5335e72dc3f21b8 To:1234567890

ID: 5621234b34400b9974d80260211f2ee To:2345678901

ID: 799e4150adfcd8f02c512afc69f28bf1 To:3456789012

ID: 8e652dcd3e0ac225966a34312e01bc58 To:4567890123

Detailed reporting of messages sent and received can also be viewed and exported from within your online account.

7. Message parameters

7.1 Table of parameters

There are a variety of messaging and SMS features supported by the gateway, which can be activated by including a number of additional parameters. These parameters include those in the table below. Parameters are case-sensitive.

Name	Paramet er name	Short description	Default value	Restricted values
API ID	api_id	The value for this mandatory parameter can be found logging in online and going to APIs -> Manage APIs		
Username	user	The username you specified.		
Password	password	Your Developers' Central account password.		
Destination address	to	The number of the handset to which the message must be delivered. The number should be in international number format.		No '00' prefix or leading "+" symbol should be used.
Text	text	The text content of the message. Note that some		Refer to this FAQ site: https://www.clickatell.com/articles/technology/unicode-sms-solutions/



_			r	
		characters take up		
		two characters		
		because of GSM		
		encoding standards		
		The source/sender	gateway	A valid international format number between
		address that the	assigne	1 and 16 characters long, or an 11-character
		message will appear	d	alphanumeric string
		to come from also	number	
		known as "Sender		
Source	£	ID". These must be		
address	from	registered within		
		your online account and approved by us		
		before they may be		
		used. MO numbers		
		rented from us do		
		not require approval		
		Enables you to	0	0,1,2,3,4,5,6,7 Read detailed description of
		receive message	U	parameter.
		delivery statuses via		parameter.
		an HTTP, SOAP or		
		XML callback which		
Enable	callback	is posted to a URL of		
callback	canback	yours using the GET		
		or POST method.		
		This is done every		
		time a message		
		status is updated.		
		Delays delivery of		The upper limit is 7 days, or 10080 minutes.
		SMS to mobile		
		device in minutes		
		relative to the time		
		at which the SMS		
Delivery	deliv_tim	was received by our		
time	е	gateway. This should		
		be greater than 10		
		minutes for best		
		effect. Smaller time		
		frames may be		
		delivered too soon.		
		Specifies the	3	1, 2, 3
Concatenat	conset	maximum number		
ion	concat	of message parts available for the		
		message. Overrides the	As per	0.8,1,1.5,2,2.5,3
		maximum charge	profiles	0.0,1,1.3,2,2.3,3
		specified online in	promes	
		"profiles". It works		
Maximum	max_cred	within the bounds of		
credits	_	the profiles. In other		
cicuits	its	words, a profile		
		must exist for the		
		maximum credit		
		that you set.		
L	<u> </u>			



				_
Required features	req_feat	Allows you to set the features which must be included when a message is sent. If the route does not support the features which you set as 'required' the message will fail. Note: The use of this parameter could increase the cost per message if a more expensive gateway is used.		Read detailed description of parameter.
Delivery queue	queue	Delivers the message through one of three queues assigned to each client account. Messages in the highest priority queue will be delivered first.	3	1, 2,3 1 is highest priority.
Gateway escalation	escalate	Prompts an escalation to an alternative route if messages are queued on the least-cost route.	0	0 - off 1 - Escalate immediately to an alternative route if messages are queued on the least-cost route.
Mobile originated	mo	This is only applicable to clients that have subscribed to a two-way messaging service. We route via a predefined carrier to enable the ability for a reply to be received back.	0	0 – Off. We use our normal routing rules. 1 – Enable Reply.
Client message ID	cliMsgld	Client message ID defined by user for message tracking.		Up to 32 alphanumeric characters. No spaces.
Unicode message	unicode	Two-digit language code. Convert your text to Unicode [UCS-2 encoding]. See http://www.Unicod e.org/.	0	0 – No Unicode 1 – Send as Unicode.
Message type	msg_type	Message types are associated with a structure that defines the fields of the message, e.g.	SMS_TE XT	



	1	Τ	ı	
		logos and ringtones.		
		See Message Types		
		for more		
		information		
		Informs the mobile		
		handset of the type		
		of data and data		
		length of the user		
		data part of an SMS		
User data		message. The UDH		
header	udh	header is used in		
lleadei		conjunction with		
		Binary content to		
		define message		
		types. See 8-bit		
		messaging for more		
		information.		
		The data content of		
Data	ata data	a message, if the		
Data	uata	UDH component is		
		set manually.		
		The validity period	1440	Set value in X minutes from 1 – 1440 minutes.
		in minutes relative	minutes	
		to the time at which	(24	
		the SMS was	hours)	
Validity		received by our		
Validity	validity	gateway. The		
period	od	message will not be		
		delivered if it is still		
		queued on our		
		gateway after this		
		time.		



Additional parameters are also available to the FTP API:

Name	Parameter name	Short description	Default value	Restricted values
CSV Line	CSV	Used in conjunction with text parameter to handle personalized batch messaging.		The mobile number must be the first value in the CSV field.
Delimiter	delimiter	Specify a specific character to be used to delimit values in the CSV field. Useful if certain values contain a comma. If not set, defaults to a comma.		
CSV Template	csvtemplate	Used in conjunction with text parameter to handle personalized batch messaging where additional message parameters need to be set on a message-by-message basis		
URL encoded text	urltext	Useful for special Greek characters, etc.		
Scheduled Time	scheduled_time	Specify when a message gets delivered.		

7.2 Message parameters in detail

Destination address (to)

SMS messages need to be sent in the standard international format, with country code followed by number. No leading zero to the number and no special characters such as "+" or spaces must be used. For example, a number in the UK being 07901231234 should be changed to 447901231234.

If the optional API setting titled 'Replace the leading zero with correct country code' is enabled for the API in your Developers' Central account, any mobile numbers starting with zero will have the zero stripped and replaced with the international dialing code.

Parameter:

to:xxxxxxxxxx



Text

This is the default parameter that is used to add message content. A single text message can contain up to 160 characters or 140 bytes.

Source address (from)

The source address (**from**), also known as the sender ID, can be either a valid international format number between 1 and 16 characters long, or an 11-character alphanumeric string. These must be registered within your online account and approved by us before they may be used. MO numbers rented from us do not require approval.

Note that characters such as spaces, punctuation, Unicode and other special characters may not always be supported to all destinations and could interfere with your delivery. We suggest that you refrain from using such characters on the source address. The use of an alphanumeric source address with 8-bit messaging may cause message failure. This service is not guaranteed across all mobile networks and may interfere with delivery to certain handsets.

Note: To ensure that this feature is supported when delivering your message, the required features (**req_feat**) parameter for this feature must be set.

Parameter:

from:xxxxxxxxxxx

Delivery acknowledgement (deliv_ack)

In order to determine whether an SMS has been received by a handset or not, we request delivery acknowledgement for every message we send. The ability to receive reliable delivery acknowledgements varies between mobile networks. Please test to a specific mobile network first, before assuming that you will receive handset acknowledgments for messages that are delivered.

If a GSM handset is 'absent', e.g., switched off or out of coverage, the SMS will be delivered according to a retry cycle once the handset is back in coverage. A delivery receipt will only be returned if and when the retry is delivered. If the validity period or retry cycle (typically 24 hours) is exceeded, the SMS will fail and show 'Error Delivering Message' or status 8.

Delivery acknowledgements can be monitored via the callback system or online reports.

Callback System (callback)

Final or intermediary statuses are passed back by the API depending on the **callback** value set in the original post. This is done by means of:

- HTTP
- GET
- HTTP POST
- JSON POST
- XML GET



- XML POST
- SOAP GET
- SOAP POST

The variables returned are api id, apiMsgld, cliMsgld, to, timestamp, from, status and charge.

Validation of Callback URL

The URL entered in your Clickatell central account to receive 'SMS Status notifications' is validated to check if a callback can be completed. The URL must begin with either http:// (non-encrypted) or https:// (encrypted). If the callback URL is invalid, a message is displayed indicating an Invalid URL.

Callback retry interval

The MT callback system will make 8 attempts to deliver a callback to your specified callback URL.

For Example:

- 1. 2 minutes after the original attempt
- 2. 4 minutes after last retry
- 3. 8 minutes after last retry
- 4. 16 minutes after last retry
- 5. 32 minutes after last retry
- 6. 64 minutes after last retry
- 7. 128 minutes after last retry
- 8. 3 days after last retry (max retries reached)

Optional Callback username and password

An optional "username" and "password" can be set in the preferences section of your API product. This username and password are not the same as your Clickatell username and password but is a setting of your choice to add additional security.

Callback value	Message status types returned	Message status code returned
0	No message status returned.	
1	Returns only intermediate statuses.	003
2	Returns only final statuses of a message.	004, 005, 007, 009, 010, 012
3	Returns both intermediate and final statuses of a message.	003, 004, 005, 007, 009, 010, 012
4	Returns only error statuses of a message.	005, 007, 009, 010, and 012
5	Returns both intermediate and error statuses of a message.	003, 005, 007, 009, 010, 012
6	Returns both final and error statuses of a message.	004, 005, 007, 009, 010, 012
7	Returns both intermediate, final and error statuses of a message.	003, 004, 005, 007, 009, 010, 012



Examples

- HTTP

Sample callback to your callback URL using an HTTP get:

JSON

Example of an MT callback using a JSON post:

```
{
    "data":{
        "apild" : 123456,
        "apiMessageld" : "abcdef1234567890abcdef1234567890",
        "clientMessageld" : "MyMessageld",
        "timestamp" : 2147483647,
        "to" : "27821234567",
        "from" : "SenderId",
        "charge" : 1.0,
        "messageStatus" : "003"
    }
}
```

- XML

The following data is sent in XML MT callbacks in a parameter called 'data':

```
<?xml version="1.0"?>
<callback>
<apiMsgld>996411ad91fa211e7d17bc873aa4a41d</apiMsgld>
<cliMsgld></cliMsgld>
<timestamp>1218008129</timestamp>
<to>279995631564</to>
<from>27833001171</from>
<charge>0.300000</charge>
<status>004</status>
</callback>
```

Sample callback to your callback system using an XML GET:

https://www.yoururl.com/script.php?data=<?xmlversion="1.0"?><callback><apiMsgld>996411ad91fa211e7d17bc873aa4a41d</apiMsgld></cli

 $\label{lem:msgld} Msgld><timestamp>1218008129</timestamp><to>279995631564</to><from>27833001171</from><charge>0.300000</charge><status>004</status></callback>$



- SOAP

With the SOAP callback method, a SOAP packet will be sent with a parameter called 'data'. Below is an example packet that will be sent to you via GET or POST.

Example of a SOAP packet that will be sent to you via **GET** or **POST**:

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<SOAP-ENV:Envelope SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:tns="mt_callback">
<SOAP-ENV:Body>
 <tns:mt_callback xmlns:tns="mt_callback">
    <api_id xsi:type="xsd:int">1234</api_id>
    <apimsgid xsi:type="xsd:string">2e838df2ee3ea418272ae05aaf84ce5d</apimsgid>
    <cli>sgid xsi:type="xsd:string">abc123</climsgid></tl>
    <to xsi:type="xsd:string">27999123456</to>
    <from xsi:type="xsd:string">27999000224</from>
    <timestamp xsi:type="xsd:int">1213690834</timestamp>
    <status xsi:type="xsd:int">003</status>
    <charge xsi:type="xsd:float">0.300000</charge>
  </tns:mt_callback>
 </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

This is an example callback URL that will be sent to your application:

```
http://www.yoursite.com/your_url.php?data="<?xml version="1.0" encoding="ISO-8859-1"?><SOAP-ENV:Envelope SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/" xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:tns="mt_callback"><SOAP-ENV:Body>ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:tns="mt_callback"><SOAP-ENV:Body><tns:mt_callback xmlns:tns="mt_callback"><api_id xsi:type="xsd:int">1234</api_id><apimsgid xsi:type="xsd:string">22838df2ee3ea418272ae05aaf84ce5d</apimsgid><climsgid xsi:type="xsd:string">27999123456</to><from xsi:type="xsd:string">27999123456</to><from xsi:type="xsd:string">27999000224</from><ti>from xsi:type="xsd:int">1213690834</timestamp><status xsi:type="xsd:int">003</status><charge xsi:type="xsd:float">0.300000</charge></tns:mt_callback></sOAP-ENV:Body></soAP-ENV:Envelope>"
```

Delivery time (deliv_time)

The delivery of an SMS message may be delayed by setting an amount of time in minutes relative to the time at which it was received by our gateway. We will store the message until the required time frame has elapsed. The maximum delay time is 10080 minutes or 7 days.

Parameter:

deliv_time:120

Concatenation (concat)

If this value is set to 1, 2 or 3 the message will span across 1, 2 or 3 SMS messages where applicable. One text SMS will be sent for every 160 characters or 140 bytes. If a message is concatenated, it reduces the



number of characters contained in each message by 7. With 8-bit concatenated messages, each SMS can support up to 140 bytes including the UDH headers.

For more information on characters that require two-character places please visit: http://www.clickatell.com/help-support/frequently-asked-questions/ and search for 'Why do some characters take two spaces?'

Please be aware that a single Unicode SMS can only contain a maximum of 70 characters. If a Unicode message is concatenated, it reduces the number of characters contained in each message part by 7.

Values set are:

Value	Status			
1 No concatenation: only 1 message.				
2	Concatenate a maximum of 2 messages.			
3 Default - Concatenate a maximum of 3 messages.				
N	Concatenate a maximum of N messages. (Delivery is dependent on mobile and gateway. A maximum of 3 is recommended. The maximum number of messages that can be concatenated is 35).			

Parameter:

concat:2

Maximum credits (max_credits)

This parameter overrides the maximum charge associated with message delivery, as set by the profiles selected within your client account after logging in online. This parameter can be used to limit the cost of a message to a particular value and is bound by the maximum credit value specified in your profiles.

A valid API message ID can still be returned for messages that are not delivered as a result of the maximum credits value set. These messages will have a status of routing error (009).

The credit value in this parameter can be set to any amount of credits. To set your delivery profile, go to Manage account -> Account overview and click the link Control the routing of messages located in the section titled Account Type.

Parameter:

max_credits:4

Required features (req_feat)

This parameter specifies the features that must be present in order for message delivery to occur. If all features are not present, the message will not be delivered. This prevents SMS messages arriving at a



destination via the least-cost gateway, without certain features. This would, for instance, prevent the dropping of a sender ID.

This means that we will not route messages through a gateway that cannot support the required features you have set. For certain message types, we always set the required feature bitmask where relevant. These are FEAT_8BIT, FEAT_UDH, FEAT_UCS2 and FEAT_CONCAT.

This parameter is set using a combined decimal number to refer to the additional required features.

E.g.: 32 + 512 = 544 – Numeric sender ID and Flash SMS both required.

The value you would set to ensure that Flash and numeric sender ID are both supported, would therefore be **544**.

To ensure that delivery acknowledgment and alphanumeric IDs are supported you would use the value 8240 (16 + 32 + 8192).

Hex value	Decimal	Feature	Description
0x0001	1	FEAT_TEXT	Text – set by default.
0x0002	2	FEAT_8BIT	8-bit messaging – set by default.
0x0004	4	FEAT_UDH	0x0004 4 FEAT_UDH U
0x0008	8	FEAT_UCS2	UCS2 / Unicode – set by default
0x0010	16	FEAT_ALPHA	Alpha source address (from parameter).
0x0020	32	FEAT_NUMER	Numeric source address (from parameter).
0x2000	8192	FEAT_DELIVACK	Delivery acknowledgments.
0x4000	16384	FEAT_CONCAT	Concatenation – set by default.

Parameter:

req_feat:###

Delivery queue

Setting this parameter will assign the message to one of three queues assigned to each user account. This sets the priority of a message sent to us, relative to other messages sent from the same user account. Messages in queue number 1, will always be delivered before messages in queue number 2 and 3, while messages in the 3rd queue, will have the lowest priority (relative to queues 1 and 2).

This is useful when delivering, for example, a single high priority message while you have a large batch going through that same account. The large batch will be queued through queue number 3 (default), and



urgent alerts (sent through queue 1), will be delivered ahead of those messages in the batch (queue 3), regardless of when they are actually sent to us.

Values set are:

Value	Status
1	Use first / primary user queue (highest priority).
2	Use second user queue.
3	Use third user queue (lowest priority) - Default status.

Parameter:

queue:1

Gateway escalation (escalate)

By default, the message router will select the lowest cost route (matching features and reliability) that is available for a given destination. This parameter ensures that, should a message be delayed due to gateway congestion or some other reason on the initial gateway selected by our router, then alternative routes that match the required features will be sought.

This is done by moving through the available gateways in order of increasing cost, up to the maximum charge set by the user either using the parameter that defines the maximum credits or based on the profiles selected.

When urgent and high priority messages are sent, they should be posted with escalate set to 1 (on), combined with a high maximum credit value to ensure that the greatest number of gateways are available.

Values set are:

Value	Status
0	Off – Default value.
1	On - Escalate immediately to an alternative route if the messages are queued on the least-cost route.

Parameter:

escalate:1



Mobile originated (mo)

This parameter is only used when a message is sent to a handset and a reply is expected.

PLEASE NOTE: This parameter is only valid for clients that have signed up and paid for our twoway messaging service. An alternative to our least-cost gateway may be used, which could result in a higher cost per message. Please email Clickatell support for pricing or view online.

When sending a normal MT message to a handset and you expect a reply to your registered MO number, please set the mo parameter to "1".

Values to set are:

Value	Status
0	Off - Default status. We use the normal routing feature.
1	Enables reply ability. We route via a pre-defined carrier to enable the ability to reply.

It is important that the user specifies the correct from parameter together with this parameter. If no from parameter is specified, we will use a default originator number as set by Clickatell. You will NOT receive these replies.

If you specify the originator (the purchased MO number), then we will route the message such that it can be replied to by the recipient. This reply will be sent to you.

Parameter:

mo:1

Client message ID (climsgid)

This parameter is set by the user to enable internal message tracking. It allows the user to set their own tracking ID for each message. Once set for a given message, this may be used in place of the Clickatell issued API message ID (apimsgid) for querying message.

A client message ID (**climsgid**) may be any combination of alphanumeric characters excluding spaces. A maximum of 32 characters may be used.

Parameter:

climsgid:xxxx

Unicode (unicode)

If this value is set to 1, the text field must contain two-byte Unicode. Each SMS can handle a maximum of 70 characters. Each Unicode character must be hex-encoded. More information is available at http://www.Unicode.org/.



Note: When using the batch send facility for delivering Unicode messages, it is not possible to substitute variables into the message content. This is only possible with Germanic characters.

Values set are:

Value	Status
0	Off – Default status.
1	On - delivers the text as two-byte Unicode.

We provide a converter to convert text to Unicode within your client account online. Go to "Converters" from within your account online.

Parameter:

unicode:1

E.g. $\Omega\Psi\Theta$

becomes: text:03A903A80398

Message type (msg_type)

This parameter need not be included if the SMS is a standard text message.

Value	Description
SMS TEXT	This is the default message type. It is optional to specify
0.0.0_1.270	this parameter.

Command:

Please see the messaging examples at the end of this document.

Validity period (validity)

A message may be given a time frame for which it is valid. After this period the message will expire. This parameter takes an amount of time in minutes relative to the time at which the message was received by our gateway. If the message is queued on our gateway for a period exceeding the validity period set then a routing error of 115 will be returned. The default validity period is 1440 minutes (24 hours).

Note: The validity period is not passed on to the upstream gateway.

Parameter:

validity:120

URL encoded text

Used instead of the **data** or **text** parameter, the **urltext** parameter can be used to send URL encoded text, which will be decoded back to normal text before the message is delivered to the phone.



It is possible that text could consist of characters that will confuse email-clients. To prevent possible errors, the URL encoding scheme translates all "special" characters to their corresponding hexadecimal codes. These special characters include control characters (carriage returns, line feeds, etc.), certain alphanumeric symbols (%, ', ", #, &, ?, =, /, :), and other characters (Greek Bulgarian and Cyrillic characters, etc.).

For example, the string "Your URL encoded text!" could be sent as below.

Parameter:

urltext:Your%20URL%20encoded%20text%21

Scheduled Time

The purpose of this parameter is to allow you to specify when you want a message to be delivered. This parameter is different to the existing deliv_time parameter as it does not specify a delay time, but a delivery time.

The new parameter will accept a delivery time in one of the following formats:

- 1. Unix timestamp
- 2. Date in time in UTC format (YYYY-MM-DDTHH:mm:ssZ)

Examples:

- Unix timestamp: scheduled_time:1233133393
- 2) UTC date format: scheduled_time:2009-01-30T14:00:00Z

The same limitations of the deliv_time parameter apply here:

- 1. The maximum scheduled time range is 7 days
- 2. Actual delivery time of scheduled messages can always be handled up to 5 minutes too early.

8. Batch messaging

This facility enables one to do high volume delivery and server-side message merging. It offers the enduser the ability to define all elements common to a batch, and then send only the parameters that change on a message-by-message basis. The following parameters are used for batch messaging.

Name	Parameter name	Short description	Default value	Restricted values
CSV Line	CSV	Each csv line has a mobile number followed by a list of field values that are used to customize a text message. The text parameter value acts as a template with placeholders inserted into the text		The mobile number must be the first value in the CSV field.



		which are replaced by these field values when the message is sent. Used in conjunction with the text and csv parameters to handle personalized batch messaging		
CSV Template	csvtemplate	where additional message parameters (such as delivery time) need to be set on a message-by- message basis. These parameter values are added after the mobile number in the CSV Line.		
Delimiter	delimiter	Specifies a specific character to be used to delimit values in the CSV parameter field values. Useful if certain values contain a comma.	(comma)	If you use the default delimiter you will not be able to use a comma in your field values. If you are using a TAB character, there must be no white space either before or after the TAB.

CSV line parameter (csv)

csv:mobile_number[delimiter]field-value[delimiter]field-value[delimiter]field-value etc.

Where field-value is the data to be inserted into the template, and [delimiter] is the value as determined by the delimiter parameter.

Placeholders may be inserted within the message body itself. These will take the form of #field1# through to #fieldn#. See example below. If you wish to customize the whole message on each csv line, you would then use:

text:#field1#

Example:

api_id:1234

user:xxxxxxxxxx

password:xxxxxxxxxxx

text:Hi #field1#, your balance is #field2#, please come to the office on #field3#

delimiter:|

csv:1234567890|Fred|€15.50|Mondays,Wednesdays,Fridays

csv:1234567890|Jane|€299.45|Tuesdays,Thursdays,Saturdays

Note: If a ',' (comma) was used as the default delimiter, then it would only have passed through 'Mondays' as the value of field3 for Fred and 'Tuesdays' for Jane.

CSV template parameter (csvtemplate)

csvtemplate:[parameter-1],[parameter-2],[parameter-n]



Example:

csvtemplate:deliv time,cliMsgld,validity etc.

These values would then appear on the **csv** line immediately after the mobile number. The field-values for each of the placeholders that you have inserted in your text (text parameter) are then appended to the csv line.

Format: csv:mobile_number [optional csvtemplate parameters] template_placeholder_parameters

Example:

api id:1234

user:xxxxxxxxxx

password:xxxxxxxxxxxx

text:Hi #field1#, your balance is #field2#, please come to the office on #field3#

delimiter:

csvtemplate:deliv_time | cliMsgId | validity

csv:1234567890|10|id 1|60|Fred|€15.50|Mondays,Wednesdays,Fridays

csv:1234567890|40|id_2|60|Jane|€299.45|Tuesdays,Thursdays,Saturdays

A maximum of 50 000 csv lines can be uploaded at one time as long as the file size remains under the folder size limit. If larger volumes of messages must be sent, then the file should be split and uploaded one file at a time. The files in the ftp folder should be deleted before the next file is uploaded.

9. Message examples

Here are some examples that demonstrate how to use the API. All values in these examples should be replaced by your own values.

9.1 Simple examples

Standard text file

api id:xxxxx

user:xxxxx

password:xxxxx

to:1234567890

text:This is my first ftp to SMS message

Example with HTTP delivery back and callback request set

api_id:xxxxx

user:xxxxx

password:xxxxx

to:1234567890

text:Sending a message requesting a delivery acknowledgment.



deliv_ack:1 callback:3

9.2 Batch message examples

Sending the same message to multiple recipients

api_id:xxxxx

user:xxxxx

password:xxxxx

to:1234567890,9397433991,4387347839

text:This is my first email to SMS message

Sending a personalized message to multiple recipients

api id:xxxxx

user:xxxxx

password:xxxxx

text:Hi #field1#, your voucher number is #field2#.

Delimiter:

csv:447901234567|John|agh1234te

csv:447902345678|John|hfe8423ss

csv:447904567890|John|njg6983ju

csv:447903456789|John|cds2267wq

or

text:#field1#

Delimiter:,

csv:447901234567, Mary - your appointment is at 9:15 on Saturday 14th May

csv:447902345678,Craig - your appointment is at 14:30 on Wednesday 18th May

Configuring individual messages in a batch

api_id:1234

user:xxxxxxxxx

password:xxxxxxxxxxx

text:Hi #field1#, your balance is #field2#, please come to the office on #field3#

delimiter:

csvtemplate:deliv_time | cliMsgId | validity

csv:1234567890 | 10 | id_1 | 60 | Fred | €15.50 | Mondays, Wednesdays, Fridays

csv:1234567890|40|id_2|60|Jane|€299.45|Tuesdays,Thursdays,Saturdays



10.Appendix A: Error codes

The following list of error messages are generated by the Clickatell gateway during a validation phase before we accept the message. These error messages are sent back to your application. There will be no message charge if these errors are generated when sending a message. Data regarding messages that do not pass initial validation will not be included in your Clickatell Central reports.

Number	Description	Detail	
001	Authentication failed	Authentication details are incorrect.	
002	Unknown username or password	Authorization error, unknown username or incorrect password.	
003	Session ID expired	The session ID has expired after a pre-set time of inactivity.	
005	Missing session ID	Missing session ID attribute in request.	
007	IP Lockdown violation	You have locked down the API instance to a specific IP address and then sent from an IP address different to the one you have set.	
101	Invalid or missing parameters	One or more required parameters are missing or invalid.	
102	Invalid user data header	The format of the user data header is incorrect.	
103	Unknown API message ID	The API message ID is unknown.	
104	Unknown client message ID	The client ID message that you are querying does not exist.	
105	Invalid destination address	The destination address you are attempting to send to is invalid.	
106	Invalid source address	The sender address that is specified is incorrect.	
107	Empty message	The message has no content	
108	Invalid or missing API ID	The API message ID is either incorrect or has not been included in the API call.	
109	Missing message ID	This can be either a client message ID or API message ID. For example, when using the stop message command.	
113	Maximum message parts exceeded	The text message component of the message is greater than the permitted 160 characters (70 Unicode characters). Select concat equal to 1,2,3-N to overcome this by splitting the message across multiple messages.	
114	Cannot route message support@clickatell.com with the mobile number in question.	This implies that the gateway is not currently routing messages to this network prefix. Please email support@clickatell.com with the mobile number in question.	
115	Message expired	Message has expired before we were able to deliver it to the upstream gateway. No charge applies	
116	Invalid Unicode data	The format of the Unicode data entered is incorrect.	
120	Invalid delivery time	The format of the delivery time entered is incorrect.	
121	Destination mobile number blocked	This number is not allowed to receive messages from us and has been put on our block list.	



128	Number delisted	This error may be returned when a number has been delisted.	
201	Invalid batch ID	The batch ID which you have entered for batch messaging is not valid.	
202	No batch template	The batch template has not been defined for the batch command.	
301	No credit left	Insufficient credits	
302	Max allowed credit	You have exceeded the maximum credit amount that you have set for messaging.	
901	Internal error	Please retry	

11.Appendix B: Message statuses

These are message statuses that are generated after the Clickatell gateway has accepted the message for delivery. Data regarding messages passing initial validation and accepted for delivery will be included in your Clickatell Central reports.

Number	Hex	Description	Detail
001	0x001	Message unknown	The message ID is incorrect or reporting is delayed.
002	0x002	Message queued	The message could not be delivered and has been queued for attempted redelivery.
003	0x003	Delivered to gateway	Delivered to the upstream gateway or network (delivered to the recipient).
004	0x004	Received by recipient	Confirmation of receipt on the handset of the recipient.
005	0x005	Error with message	There was an error with the message, probably caused by the content of the message itself.
006	0x006	User cancelled message delivery	The message was terminated by a user (stop message command) or by our staff.
007	0x007	Error delivering message	An error occurred delivering the message to the handset.
008	0x008	OK	Message received by gateway.
009	0x009	Routing error	An error occurred while attempting to route the message.
010	0x00A	Message expired	Message has expired before we were able to deliver it to the upstream gateway. No charge applies.
011	0x00B	Message queued for later delivery	Message has been queued at the gateway for delivery later (delayed delivery).
012	0x00C	Out of credit	The message cannot be delivered due to a lack of funds in your account. Please repurchase credits.
014	0x00E	Maximum MT limit exceeded	The allowable amount for MT messaging has been exceeded.



12.Terminology

- Receive Messages: A message sent (originating) from a mobile handset to an application via Clickatell.
- Sending Messages: A message sent from an application to (terminating on) a mobile handset via Clickatell.
- **Content provider:** This is the Clickatell customer who is offering one or more services that are usually premium rated SMS system.
- Customer: A registered Clickatell customer utilizing the Clickatell API for message delivery and receipt.
- **Sender ID:** The "from" address that appears on the user's handset. This is also known as the message originator or source address. A Sender ID must be registered within your account and approved by us before it may be used.
- **Destination address:** The mobile number/MSISDN of the handset to which the message must be delivered. The number should be in international number format, e.g., country code + local mobile number, excluding the leading zero (0).
- **Source address:** See 'Sender ID' above.
- Short code: A short number which is common across all the operators for a specific region.
- **Subscriber:** The mobile network subscriber who owns the mobile number (MSISDN) which will send or receive SMSs or be billed for premium rated services.
- **Upstream gateway:** A network operator, third party or our own short message service center (SMSC).

13.Contact details

Website: www.clickatell.com

Help URL: https://www.clickatell.com/contact-support/

 $Support: \underline{support@clickatell.com}$

Sales: sales@clickatell.com

