



MTECH SMS API

Technical Specifications

MTECH

Messages can be sent via one of the two methods:

1. HTTP(S) MESSAGE SENDING
2. SMPP MESSAGE SENDING

HTTP(S) MESSAGE SENDING

The Mtech Messaging API is so simple to use.

All you need to do is invoke the API with the parameters via POST or GET and the request is queued on our system for pushing to the operator.

You will require account credentials to be used to authenticate against the API when sending out the message.

If you need to secure the communication, please switch to the SSL enabled URL (HTTPS)

PARAMETER DESCRIPTION

Parameter	Description	Type	Length
User**	Username as created and shared by an Mtech admin	string	
Pass**	Password as created and shared by an Mtech admin	string	
MESSAGE**	The message content	text	1-1000
MSISDN**	Recipient's mobile number. Should be in the international number format without the leading + eg 254722000000		
shortCode**	The sender Address.	Var char	3-11
messageID	Your reference ID. Necessary when you want to be get a delivery report	string	
linkID	This is required for on-demand services		

NOTE. Fields marked with "*" are mandatory.

The request should be submitted to the MTECH HTTP API URL

<http://ke.mtechcomm.com/bulkAPIV2/>

SSL Enabled URL

<https://ke.mtechcomm.com/bulkAPIV2/>

example

```
curl i "http://ke.mtechcomm.com/bulkAPIV2/?user=demoUser&pass=demoPassword&messageID=msgID&shortCode=DEMOSOURCEADDR&MSISDN=254722000000&MESSAGE=This+is+an+Mtech+API+test+Message"
```

Sample Response

200 Successfully Submitted Message [msgID] to Mtech

API Response

There are various responses from the API as listed below;

1. 200 Successfully Submitted Message [messageID] to Mtech

This is the response you get for a successful submission of your message to the API. The parameter messageID will have the reference ID as provided by you when submitting the message

2. Authentication Failed - Wrong credentials were provided

3. Missing MSISDN - No destination address was provided

4. Missing Message Content - No Message content was provided

5. Missing Source Address- No Source address was provided

6. Invalid parameter provided : @param - If an invalid parameter was provided. @param will be replaced by Shortcode, MSISDN or Message

7. Message not accepted: Please retry - Indicates a temporary problem. This message can be retried.

TO receive messages through our platform, you will be required to provide a URL to be configured for your short code to which we shall forward messages.

Messages will be forwarded to you via HTTP GET in the below format;

http://yourUrl/recievingService?dest=DEST&phone=MSISDN&&message=TXT

Description of the above parameters

Parameter	Description
dest	The destination Source Address
Phone	The Originating Mobile number
message	The message content

Expected Response

HTTP/1.1 200 OK

The sending service expects a response of HTTP status 200 from your web server to consider the message as successful pushed to you

HTTP DLR RECEIVING

TO receive Delivery Reports for messages already sent through our platform, please provide URL for configuration on our end.

The DLR (Delivery receipt) will be forwarded to you via HTTP GET in the below format;

http://yourDirUrl/dlrService?messageID=<MESSAGEID>&status=<DLR_STAT>&MSISDN=<PHONE>&SOURCEADDR=<SENDER>

Description of the above parameters

Parameter	Description
MESSAGEID	Unique message ID as provided by you during sending
DLR_STAT	DLR status (See below table for status definitions)
SENDER	The sender address
PHONE	The mobile phone that received the message

Expected Response

HTTP/1.1 200 OK

The sending service expects a response of HTTP status 200 from your web server to consider the delivery receipt as successful pushed to you.

The table below outlines the various DLR status codes that can be sent back and the meaning

Status	Description
1	Delivered
2	MessageWaiting
3	Internal_Failure
4	DeliveryImpossible
5	Insufficient_Balance
6	Invalid_Linkid
7	DeliveryUncertain
8	UnknownSubscriber
9	UnknownBaseStation
10	UnknownMSC
12	UnidentifiedSubscriber
13	AbsentSubscriberSM
14	UnknownEquipment
15	RoamingNotAllowed
16	IllegalSubscriber
17	BearerServiceNotProvisioned
18	TeleserviceNotProvisioned
19	IllegalEquipment
20	CallBarred
21	ForwardingViolation
22	CUG-Reject
23	IllegalSS-Operation
24	SS-ErrorStatus
25	SS-NotAvailable
26	SS-SubscriptionViolation
27	SS-Incompatibility
28	FacilityNotSupported
29	InvalidTargetBaseStation
30	NoRadioResourceAvailable
31	NoHandoverNumberAvailable
32	SubsequentHandoverFailure
33	AbsentSubscriber
34	SubscriberBusyForMT-SMS
35	SM-DeliveryFailure
36	MessageWaitingListFull
37	SystemFailure
38	DataMissing
39	UnexpectedDataValue

40	PW-RegistrationFailure
41	NegativePW-Check
42	NoRoamingNumberAvailable
43	TracingBufferFull
44	NumberOfPW-AttemptsViolation
45	NumberChanged
46	UnknownAlphabet
47	USSD-Busy
48	UserAbnormalState
49	UserInBlacklist
50	UserNotExist
51	UserNotSubscribed
52	UserIsSuspended
53	NotSFCUser
54	DeliveryNotificationNotSupported
55	UserCallBarredMT

SMPP MESSAGE SENDING

Mtech will provide you with our messaging gateway smpp parameters for you to use to bind.

The parameters to be provided shall be as below;

Parameter	Description	Comments
IP	IP address of our Messaging Gateway	mandatory
Port	Port to bind to	mandatory
Username	bind username	mandatory
Password	bind Password	
System-type	additional login parameter	mandatory
Transceiver-mode	send/receive mode	one bind can support both modes

