

Direct7 HTTP API Reference

This document is targeted at software designers/programmers wishing to integrate SMS messaging as a function into their applications using HTTP protocol, e.g. in connection with WEB-server, unified messaging, information services etc.

SMS Messages can be transmitted using HTTP protocol, the following requirements must be met to enable the service:

- You need a Direct7 user account
- You need sufficient credit on your Direct7 user account

Features

D7 HTTP API allows you to:

- Send and receive SMS
- Receive http callbacks for delivery notification (receipts) when SMS is received (or not) on mobile station
- Send and receive long (more than 160 characters) SMS, unicode/binary content and receive http callbacks when a mobile station sends you a SMS-MO.
- Check your balance status

Sending SMS

In order to deliver SMS-MT messages, Data is transferred using HTTP GET/POST requests. The D7 gateway accepts requests at the following URL:

<http://smcsc.d7networks.com:1401/send>

HTTP request parameters

Parameter	Value / Pattern	Presence	Description / Notes
to	Destination address	Mandatory	Destination address, only one address is supported per request
from	Originating address	Optional	Originating address, In case rewriting of the sender's address is supported or permitted by the SMS-C used to transmit the message, this number is transmitted as the originating address
coding	0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13 or 14	Optional	Sets the Data Coding Scheme bits, default is 0, accepts values all allowed values in SMPP protocol
username	Text (30 char. max)	Mandatory	Username for D7 user account.
password	Text (30 char. max)	Mandatory	Password for D7 user account.
priority	0, 1, 2 or 3	Optional	Default is 0 (lowest priority)
validity-period	Integer	Optional	Message validity (minutes) to be passed to SMSC, default is value is None (message will take SMSC's default)
dlr	yes or no	Optional	Default is no (no DLR will be tracked)
dlr-url	HTTP(s) URL	Mandatory <i>if dlr</i>	If a DLR is requested (dlr = 'yes'), dlr-url MUST be set, if not, dlr value is reconsidered as 'no'
dlr-level	1, 2 or 3	Mandatory <i>if dlr</i>	1: SMS-C level, 2: Terminal level, 3: Both
dlr-method	GET or POST	Mandatory <i>if dlr</i>	DLR is transmitted through http to a third party application using GET or POST method.
tags	Text	Optional	Will tag the routable to help interceptor or router enable specific business logics.
content	Text	Mandatory <i>if hex-content not defined</i>	Content to be sent
hex-content	Binary hex value	Mandatory <i>if content not defined</i>	Binary to be sent

HTTP response

When the request is submitted D7 API, you will get the following responses from the system.

On success:

Success "07033084-5cfd-4812-90a4-e4d24ffb6e3d"

Other wise:

Error "No route found"

If any error happened, you will get the HTTP Error Code along with the response.

HTTP Code	HTTP Body	Meaning
200	Success "07033084-5cfd-4812-90a4-e4d24ffb6e3d"	Message is successfully queued, messaged-id is returned
400	Error "Mandatory arguments not found, please refer to the HTTPAPI specifications."	Request parameters validation error
400	Error "Argument _ is unknown."	Request parameters validation error
400	Error "Argument _ has an invalid value: _."	Request parameters validation error
400	Error "Mandatory argument _ is not found."	Request parameters validation error
400	dynamic messages	Credentials validation error
403	Error "Authentication failure for username:_"	Authentication error
403	Error "Authorization failed for username:_"	Credentials validation error
403	Error "Cannot charge submit_sm, check RouterPB log file for details"	User charging error
412	Error "No route found"	Message routing error
500	Error "Cannot send submit_sm, check SMPPClientManagerPB log file for details"	Fallback error, checking log file will provide better details