

# TECHNOTCH IT SOLUTIONS

## TECHNOTCH IT SOLUTIONS API USERGUIDE

Technotch supports API via HTTP protocol, we have 2 models for working:

- Old Model (API)
- New Model (API++)

### Old Model (API):

Old model applies the old working model where client is shared with unique **message-id** for each request submitted. The response generated will be in plain text format containing message-id or error code (if request fails) as follows

or

`error-code:<error_code>,message:<description_for_error_generated>`

(Note: Old Model is only applicable for single http requests only)

Delivery status for same can be enquired via URL mentioned below, which will be responded in JSON String format.

[www.technotch.in/RestPanel/dlrResponse?username=<username>&msgid=<message-id>](http://www.technotch.in/RestPanel/dlrResponse?username=<username>&msgid=<message-id>)

So, for username "user1" and message-id "123", DLR Response check request will be:

[www.technotch.in/RestPanel/dlrResponse?username=user1&msgid=123](http://www.technotch.in/RestPanel/dlrResponse?username=user1&msgid=123)

and response generated in JSON format is:

```
{"campaign_name":"campaignbulk","msisdn":"9000000079","msg_id":"123","submit_time":"May 30, 2017 9:32:00 AM","delivery_time":"May 30, 2017 9:32:00 AM","msg_status":"delivered","error_code":0}
```

## New Model (API++):

New Model overcomes the challenge faced by old model where client needs to enquire for Delivery status manually, instead of submitting message-id and manual enquiry using same, Delivery Report is automatically submitted to client using Callback URL. Hence only response generated for request is success or failure

### OK/ACCEPTED

or

error-code:<error\_code>,message:<description\_for\_error\_generated>

(Note: New Model works for both Single and Bulk SMS)

Hence for a callback url is like "<http://www.technotch.in/dlr-response>", delivery report for will be sent in JSON String format on delivery or failure.

```
{"campaign_name":"campaignbulk","msisdn":"9000000079","msg_id":"123","submit_time":"May 30, 2017 9:32:00 AM","delivery_time":"May 30, 2017 9:32:00 AM","msg_status":"delivered","error_code":0}
```

## HOW TO SEND SMS REQUEST:

Both API/API++ supports HTTP request via GET/POST, and request can be submitted to platform using following Urls.

### SINGLE SMS REQUEST

- <http://www.technotch.in:8205/restPromo>
- <http://www.technotch.in:8205/restTrans>
- <http://www.technotch.in:8205/restTranscrub>

### BULK SMS REQUEST

- <http://www.technotch.in:8205/restPromoBulk>
- <http://www.technotch.in:8205/restTransBulk>
- <http://www.technotch.in:8205/restTranscrubBulk>

Both API & API++ requires few parameters via request query (HTTP GET) or request body (HTTP POST) for processing of request and sending sms to desired mobile handset.

The parameters required are as follows:

- username & password\* : Credentials provided by **Technotch Team** to connect to our server.
- campaign-name\* : Campaign name under which sms information will be consolidated.
- to\* : 10-digit mobile number/numbers on whose handset the sms is to be delivered (note: for sending same message on multiple numbers, comma separate each mobile number and URL Encoded)
- from\* : Either Sender ID approved to client account or 10 digit dummy number (only for promotional route)
- text\* : Message content to be submitted to handset (should be URL Encoded)
- unicode\* : Can be either true/false on basis of content of message being unicode or plain english.
- dlr-url : Callback url to which delivery report should be submitted (only applicable for POST methods, also if working on Old Model (API), use any dummy url to send request, should be URL Encoded)

Note: Fields with \* are mandatory or applicable as being described.

The composed parameter list should be as

```
username=<username>&password=<password>&campaign-  
name=<campaign_name>&to=<phone_numbers_send_message>&from=<senderid>&text=<me  
ssage_text>&unicode=<boolean_value>&dlr-url=<callback_url>
```

Hence to send GET request to via Transactional route with parameters as campaign-name=campaign1, username=user1, password=pass1, to=9560472328, from=SENDER (senderId for transactional or transcrub route) or 9560472328 (for promotional route), text=hello+world, unicode=false (for plain english) or true (for message in hindi or regional language) and dlr-url=http://www.technotch.in, composed url will be

```
http://ww.technotch.in:8205/restTrans?username=user1&password=pass1&campaign-  
name=campaign1&to=9560472328&from=9560472328&text=hello+world&unicode=false&dlr-  
url= http%3A%2F%2Fwww.technotch.in
```

or For POST request same request will be

Request : <http://www.technotch.in:8205/restTrans>

Requestbody:username=user1&password=pass1&campaign-name=campaign1&to=9560472328&from=9560472328&text=hello+world&unicode=false&dlr-url= http%3A%2F%2Fwww.technotch.in

## Error Codes:

Following are error codes generated for requests submitted via API/API++:

953	BLOCKED	BLOCK
940	Blacklist Subscriber	BLCKLST_SUB
929	Message filtered in Blacklisted database	BLCKLST_MSG
928	Invalid Destination address LENGTH	INV_DEST_ADDR_LEN
927	Invalid Cust REF Reference Id LENGTH	INV_CUST_REF_LEN
926	Invalid Bill Reference Id length	INV_BILL_REF_LEN
925	Internal ERROR	INTRNL_ERROR
924	Invalid OD Request ID Email handover failed to Email delivery	INV_OD_ID
923	router	FAIL_EMAIL_HAND
922	Message expired due to expiry_minutes	EXP_MSG
921	Route template not available Maximum attempts exceeded for message	UNV_TEMP
920	retry	EXP_MSG_ATMP
919	Route not available	UNV_ROUTE
918	Invalid Credit Message Quota	INV_CREDIT
917	Invalid Prepaid Message Quota	INV_PREP_MSG
916	CM of Invalid Length over HTTP with UDH	INV_LEN_CM_UDH
915	Carrier not supporting Binary Message	UNSUP_BINARY_MSG
913	Invalid message length for FL and SP GroupID NOT FOUND - Routing Configuration	INV_LEN_FL_SP
912	missed	UNV_GRPID
911	Message filtered in DND database	DND
909	Invalid Bill Reference ID	INV_BILL_REF_ID
908	Invalid Customer Reference Number	INV_CUST_REF_ID
907	Invalid Expiry Minutes	INV_EXP_MIN
906	Invalid Port	INV_PORT
905	Invalid UDH	INV_UDH
904	Invalid Message Type	INV_MSG_TYPE

902	Invalid Message Text	INV_MSG_TEXT
901	Invalid Schedule Time	INV_SCH_TIME
871	No Translation For This SpificAddress	NO_TRANSLATION
862	App Context Not Supported	CNTXT_NOT_SUPPORT
826	Unrecognized operation	UNRECOG_OPR
825	Unrecognized linked ID	UNRECOG_LINKID
824	Unrecognized invoke ID	UNRECOG_INVKID
823	Unrecognized invode ID	UNRECOG_INVVID
822	Unrecognized error	UNRECOG_ERR
821	Unrecognized component	UNRECOG_CMPT
820	Unable to decode response	DCODE_FAIL
819	Timeout	TIMEOUT
817	SubscriberBusyForMT_SMS	SUB_BUSY
816	Source Template Error Code	SRC_TEMP_ERR
815	SM-Delivery Failure	DELIVR_FAIL
814	Return result expected	RESULT_EXPCTD
813	Return error unexpected	ERR_EXPCTD
812	Provider abort	PROVDR_ABRT
809	Mistyped parameter	MISTYP_PARAM
808	Mistyped component	MISTYP_COMP
807	Linked Response expected	LINK_RSP_EXPCTD
801	API Error	API_ERR
799	Destination resource shortage	DEST_RSRC_SHRT
795	MTP failure	MTP_FAIL
771	Service temporary not available	TEMP_UNAVAIL
666	Operator barring	OPRTR_BAR
659	Memory capacity exceeded	MEMRY_EXCEED
654	Controlling MSC system failure	MSC_FAIL
652	Data size error	DATA_SIZE_ERR
650	HLR system failure	HLR_SYS_FAIL
649	PLMN system failure	PLMN_SYS_FAIL
613	Illegal equipment	ILLEGAL_EQUIP
610	Spam guard Failure	SPAM_FAIL
609	IS41 Notice from TCAP Provider	IS41_NOTICE
608	GMAP_U - ABORTED	GMAP_U_ABORT
607	Unassigned directory number	UNASSIGN_DIR_NUM
606	No page response	NO_PAGE_RESP
579	Denied to the user by IN.	DENIED_TO_USR
576	Message validity has expired.	MSG_VALID_EXP
555	Invalid sender id	INV_SNDR_ID
550	MT response is not received within configured time	MT_RESP_RECV_FAIL
549	SRI response not received within configured	SRI_RESP_RECV_FAIL

	time	
490	Unexpected error	UNEXPCT_ERR
477	Encoding problem	ENCDING_ERR
408	DND Rejection Telco	DND_REJ_TELCO
407	Subscriber is in International Roaming	INTRNL_ROAM
404	MAP API ERROR	MAP_API_ERR
384	DUPLICATE INVOKE ID	DUP_INV_ID
383	BODY STRUCTURED COMPONENT	BODY_STRUCT_COMP
379	PACKET REJECTED BY REMOTE PROVIDER (P-ABORT)	P_ABORT
378	PACKET REJECTED BY PEER (U-ABORT)	U_ABORT
376	GT ERROR	GT_ERR
373	DATA MISSING	DATA_MISS
372	MESSAGE WAITING LIST FULL	MSG_WAIT_FULL
371	Initiating release	INIT_RELEASE
369	User abort	USR_ABORT
368	Absent Subscriber	ABSNT_SUB
328	HLR refuses	HLR_REFUSE
265	SysBarredDestMSCAddress	SYS_BAR_DEST_MSC_ADDR
259	AbortCause	ABORT_CAUSE
258	Lower Layer Capabilities not supported	LLC_NT_SUPPRT
257	Not in use	NIU
256	Destination protocol is invalid	INV_DEST_PRTCOL
255	Unknown Error	UNKWN_ERR
254	Delivery receipt is not received by SMSC	SMSC_DLR_RECV_FAIL
253	Subscriber is not reachable	SUB_UNREACH
252	No SMS storage capability in SIM	EXCP_NO_SIM_STRG
251	Error in MS	MS_ERR
250	SIM Storage Capacity is full	EXCP_SIM_MEM_FULL
249	Parameter error	PARAM_ERR
248	Message is deleted by operator	OPRTR_MSG_DEL
247	response from HLR is not received	HLR_RESP_RECV_FAIL
246	response with dialog refused received	DIALG_REFUSE_RESP
245	Other general problems	OTHR_PRBLM
244	Unexpected linked operation	UNEXPCT_LINK_OPR
243	Address vacant	EMPT_ADDR
242	User Data size error	USR_DATA_SIZE_ERR
241	MSC response is not received	MSC_RESP_RECV_FAIL
240	Missing mandatory parameter	MAND_PARAM_MISS
239	ABORT service message	SERV_MSG_ABORT
228	Invalid Destination Address	INV_DEST_ADDR
224	Response not received from MSC	MSC_RESP_SEND_FAIL
195	Resource Limitation	RESRC_LIMIT

183	Unexpected Data Value	UNEXPCTD_DATA_VAL
179	SM Delivery Failure	SM_DLVRY_FAIL
165	CUG Reject	CUG_REJECT
155	Unidentified Subscriber	UNIDNTF_SUB
151	MS is currently not available	MS_UNAVAIL
150	SMS delivery postponed	SMS_DLVRY_POSTPN
149	Resource shortage	RESRC_SHRT
146	IS41 Notice from TCAP Provider	IS41_NOTICE_2
145	permanent failure	PERMNT_FAIL
143	Decode Error	DECODE_ERR
142	Network Timeout	NTWRK_TIMEOUT
140	Message failed/expired	MSG_EXPRD
139	service denied	SERV_DENIED
138	other Error on the SMPPPLUS Prepaid	OTHR_ERR
137	Subscriber doesnt have sufficient balance	INSUFF_BALANCE
136	other error	OTHR_ERR_2
135	No connectivity with prepaid	NO_CONN_PREPAID
134	charge response is not received	CHRG_RESP_RECV_FAIL
133	SS7/Sigtran connection is not available.	SS7_UNAVAIL
132	MT SMS Busy	MT_BUSY
131	International message is not received by SMSC	INTRNL_MSG_RECV_SMSC_FAIL
127	MAP version error	MAP_VERS_ERR
126	HLR System error	HLR_SYS_ERR
120	Illegal Subscriber	ILLEGAL_SUB
119	Subscriber Busy for MT SMS	SUB_BUSY_MT_SMS
117	Switched off	SWTCH_OFF
116	Subscriber Busy	SUB_BUSY
114	Invalid SME Address	INV_SME_ADDR
109	Message Queue full	MSG_QUE_FULL
108	System failure	SYS_FAIL
106	Facility Not supported	UNSUP_FACILTY
105	Call Barred	CALL_BAR
104	Teleservice not provisioned	TELESRVC_PROVSN_FAIL
103	Invalid Subscriber	INV_SUB
102	Undefined Subscriber	UNDEF_SUB
101	Unknown Subscriber	UNKNWN_SUB
81	INVALID PACKET AT SMSC LEVEL	INV_PKT_SMSC_LVL
76	temporary failure	TEMP_FAIL
74	Message rejection by remote MSC	MSC_REJCT
73	MSC NUMBER MISSING.	MSC_NUM_MISS
0	Delivered to Handset	DELIVRD
124	No Mapping Done	UNKNOWN

