TELECOM ENTERPRISE APPLICATION MANAGEMENT (TEAM) HTTP INTERFACE SPECIFICATION

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CONTENTS

INTRODUCTION

Using a single HTTP POST operation, the external application can submit SMS(s) to the TEAM platform. Similarly, when receiving a SMS destined to an external application, the TEAM platform initiates a HTTP POST or GET operation to an URL defined by the system.

The TEAM platform is HTTP version 1.1 compliant. All parameters in a POST request should be url-encoded. A HTTP GET Request may also be used for sending, but is of limited use since a GET operation cannot hold more than 255 characters.

1. HTTP PARAMETERS

HTTP PARAMETERS	Descriptions
<SMS_POST_URL>	This is a system configured URL given to external party for sending individual SMS
<BULK_SMS_URL>	This is a system configured URL given to external party for sending bulk SMS and reading inbox.
<TEAM_HOST>	Team platform IP or Name
<PORT>	Allowed HTTP/HTTPS access port.
<SRC>	This is the originating address. Numeric or alpha-numeric values are allowed
<DST>	This is the destination address. Only numeric values are allowed
<MSG>	SMS message content. For single message sending API, only text data is allowed
<SMS_DELIVER_URL>	The external application should have sms_deliver_url resource listening for incoming messages. For each external application, this is admin configurable in TEAM platform.
<SMS_DELIVER_HOST>	The host IP or Name of external application
<MSG_ID>	Message reference ID
<ESME>	External short message entity name
<TYPE>	External application receives type parameter as sms or report. Based on the type, message contain will differ.
<USERNAME>	The operations like bulk SMS, inbox read, external application should have access privileges. User names are provided by TEAM admin
<PASSWORD>	Password to access TEAM system
<EA>	Enterprise Account Name provided by TEAM admin
<CAMPAIGN>	Campaign is created by team platform
<MSG_STATE>	The short message state, optional parameter is used by the SMSC in the deliver_sm and data_sm PDUs to indicate to the ESME the final message state for an SMSC Delivery Receipt

Delivery status includes (but not limited to)

HTTP PARAMETERS	Value	Descriptions
DELIVRD	2	DELIVRD Message was successfully delivered to destination
EXPIRED	3	EXPIRED Message validity period has expired
DELETED	4	Message has been deleted
UNDELIV	5	Message was undeliverable
UNKNOWN	0	Message is/was invalid
REJECTD	8	Message was rejected
ACCEPTD	N/A	Message was accepted (i.e. has been manually read on behalf of the subscriber by customer service)

2. SMS SUBMIT– SINGLE

This POST operation is initiated by the external application, and the response is returned from the TEAM platform to the external application over the same HTTP/HTTPS session. When data has been entered into HTML forms is submitted, the form field names and values need to be encoded and sent to the server in an HTTP request message using method GET or POST, The media type of data encoded this way is application/x-www-form-urlencoded.

2.1 REQUEST

A valid submission format of a message:

```
POST <sms_post_url> HTTP/1.0
Host: <team_host>
PORT: <port>
Content-type: application/x-www-form-urlencoded
Content-length: xx
username=<username>&password=<password>&src=<src>&dst=<dst>&msg=<msg>&dr=1
```

REQUEST – UNICODE SMS

A valid submission format of a message:

POST <sms_post_url> HTTP/1.0
Host: <team_host>
PORT: <port>
Content-type: application/x-www-form-urlencoded
Content-length: xx
username=<username>&password=<password>&src=<src>&dst=<dst>&msg=<msg
>&dr=1&lan=u

Samples:

Sample http request – Normal SMS

POST sms/send_sms.php HTTP/1.0
Host: http://message.textware.lk
PORT: 5000
Content-type: application/x-www-form-urlencoded
Content-length: 8
username=testuser&password=Test123&src=TEXTWARE&dst=947740xxxxx&msg=
Test+msg&dr=1

Sample HTTP API request format string

http://message.textware.lk:5000/sms/send_sms.php?username=test_user&password=Test123&src=TEXTWARE&dst=94774xxxxx&msg=Test+SMS&dr=1

Sample http request – Unicode SMS

POST sms/send_sms.php HTTP/1.0
Host: http://message.textware.lk
PORT: 5000
Content-type: application/x-www-form-urlencoded
Content-length: 8
username=testuser&password=Test123&src=TEXTWARE&dst=947740xxxxx&msg=ආ
යුබෝවන්&dr=1&lan=u

Sample HTTP API request format string

http://message.textware.lk:5000/sms/send_sms.php?username=test_user&passwor
d=Test123&src=TEXTWARE&dst=94774044339&msg=ආයුබෝවන්&dr=1&lan=u

Sample HTTPS request – Normal SMS

POST sms/send_sms.php HTTP/1.0
Host: https://message.textware.lk
PORT: 5001
Content-type: application/x-www-form-urlencoded
Content-length: 8
username=testuser&password=Test123&src=TEXTWARE&dst=94774xxxxx&msg=
Test+msg&dr=1

Sample HTTPS API request format string

https://message.textware.lk:5001/sms/send_sms.php?username=test_user&passwor
d=Test123&src=TEXTWARE&dst=94774xxxxx&msg=Test+SMS&dr=1

Sample HTTPS request – Unicode SMS

POST sms/send_sms.php HTTP/1.0
Host: https://message.textware.lk
PORT: 5001
Content-type: application/x-www-form-urlencoded
Content-length: 8
username=testuser&passward=Test123&src=TEXTWARE&dst=94774xxxxx&msg=ආ
යුබෝවන්&dr=1&lan=u

Sample HTTPS API request format string

https://message.textware.lk:5001/sms/send_sms.php?username=test_user&passwor
d=Test123&src=TEXTWARE&dst=94774xxxxx&msg=ආයුබෝවන්&dr=1&lan=u

2.2 RESPONSE

The following response is valid for the above request:

Response Code: OK
Content-Length: 5
Content-Type: text/plain
Date: Tue, 10 Aug 2010 00:06:45 GMT
Server: MochiWeb/1.0
0
OK

System defined status codes on submit response

#	Error Code (System Defined)	Possible Reasons
1	Operation success: 2753537885	Successful submission (with SMS ID)
2	403 Forbidden	Invalid user credentials
3	Internal_error	Internal server / internet or network errors
4	Credit_over	No credit available in the account
5	Bad Request	Invalid Sender ID
6	Restrict / 10	Sender ID is not whitelist
7	Connection_timeout	Connectivity drop between systems
8	No_routes	Invalid destination number length

First line is a numeric status code and the second is a corresponding Description. A successful submission of the message will have a result code of 0. Any other result means that the submission has failed.

3. SMS SUBMIT – Bulk

This POST operation is initiated by the external application, and the response is returned from the TEAM platform to the external application over the same HTTP session. The request is formatted in JSON (JavaScript Object Notation)

3.1 REQUEST – NORMAL SMS

Sample HTTP/HTTPS request format

```
POST <bulk_sms_url> HTTP/1.1
Host: <team_host>
PORT: <port>
Content-Type: application/json
{"action":"bulk_put","user":"<username>","password":"<password>","ea":"<userna
me>","campaign":"bulk","records":[{"src":"<senderID>","dst":"<to number>",
"msg":"<message>","dr":"1"},{"src":"<senderID>","dst":"<to
number>","msg":"<message>","dr":"1"}]}
```

Sample:

Sample HTTP request

```
POST /bulk/sms.php HTTP/1.1
Host: http://message.textware.lk
PORT: 5000
Content-Type: application/json
{"action":"bulk_put","user":"demo","password":"test123","ea":"demo","campaign":
"bulk","records":[{"src":"DEMOSMS","dst":"94xxxxxxxxx",
"msg":"Testing via bulk
API","dr":"1"},{"src":"DEMOSMS","dst":"94xxxxxxxxx","msg":"Testing via bulk
API","dr":"1"}]}
```

Sample HTTPS request

```
POST /bulk/sms.php HTTP/1.1
Host: https://message.textware.lk
PORT: 5001
Content-Type: application/json
{"action":"bulk_put","user":"demo","password":"test123","ea":"demo","campaign":
"bulk","records":[{"src":"DEMOSMS","dst":"94xxxxxxxxx",
"msg":"Testing via bulk
API","dr":"1"},{"src":"DEMOSMS","dst":"94xxxxxxxxx","msg":"Testing via bulk
API","dr":"1"}]}
```

REQUEST – UNICODE SMS

Sample HTTP/HTTPS request format

```
POST <bulk_sms_url> HTTP/1.1
Host: <team_host>
PORT: <port>
Content-Type: application/json
{"action":"bulk_put","user":"<username>","password":"<password>","ea":"<userna
me>","campaign":"bulk","records":[{"src":"<senderID>","dst":"<to number>",
"msg":"<message>","dr":"1"},{"src":"<senderID>","dst":"<to
number>","msg":"<message>","dr":"1","type":"u"}]}
```

Sample:

Sample HTTP request

POST /bulk/sms.php HTTP/1.1
Host: http://message.textware.lk
PORT: 5000
Content-Type: application/json
{"action":"bulk_put","user":"demo","password":"test123","ea":"demo","campaign":
"bulk","records":[{"src":"DEMOSMS","dst":"94xxxxxxxxx",
"msg":"Testing via bulk
API","dr":"1"},{"src":"DEMOSMS","dst":"94xxxxxxxxx","msg":"ආයුබෝවන්","dr":"1","
type":"u"}]}

Sample HTTPS request

POST /bulk/sms.php HTTP/1.1
Host: https://message.textware.lk
PORT: 5001
Content-Type: application/json
{"action":"bulk_put","user":"demo","password":"test123","ea":"demo","campaign":
"bulk","records":[{"src":"DEMOSMS","dst":"94xxxxxxxxx",
"msg":"Testing via bulk
API","dr":"1"},{"src":"DEMOSMS","dst":"94xxxxxxxxx","msg":"ආයුබෝවන්","dr":"1",
"type":"u"}]}

3.2 RESPONSE

The external application receives with a HTTP status code of 200 (OK) with the status of request, number of SMS(s) and number of accepted. Any other status value than 200 will consider as a failure.

Response Code: OK
Content-Length: 46
Content-Type: text/javascript
Date: Mon, 09 Aug 2010 09:27:59 GMT
Server: MochiWeb/1.0
{"status":"success","received":2,"accepted":2}

System defined status codes on submit response

#	Error Code (System Defined)	Possible Reasons
1	Operation success: 2753537885	Successful submission (with SMS ID)
2	403 Forbidden	Invalid user credentials
3	Internal_error	Internal server / internet or network errors
4	Credit_over	No credit available in the account
5	Bad Request	Invalid Sender ID
6	Restrict / 10	Sender ID is not whitelist
7	Connection_timeout	Connectivity drop between systems
8	No_routes	Invalid destination number length

4. RECEIVING SMS

When the TEAM platform receives a mobile originated SMS, the POST/GET Operation is initiated to the corresponding external application and the Response should be returned by the external application to the TEAM Platform. The hostname, port and path depend on the corresponding values set for the external application account on configured on the TEAM platform.

4.1 REQUEST

4.1.1 POST

The TEAM platform submits a HTTP POST Request as follows:

```
POST <sms_deliver_url> HTTP/1.0
Host: <sms_deliver_host>
Content-type: application/x-www-form-urlencoded
Content-length: 65
src=<src>&dst=<dst>&msg=<msg>&msg_id=<msg_id>&esme=<esme>&type=<type>
```

Sample:

Sample HTTP request

```
POST /sms/deliver_sms.php HTTP/1.0
Host: external.app.com
Content-type: application/x-www-form-urlencoded
Content-length: 65
src=TEXTWARE&dst=94774xxxxx&msg=test&msg_id=123&esme=ADME&type=sms
```

4.1.2 GET

The TEAM platform submits a HTTP GET Request as follows:

```
GET <sms_deliver_url>?src=<src>&dst=<dst>&msg=<msg>&msg_id=<msg_id>&esme
=<esme>&type=<type> HTTP/1.1
Host: <sms_deliver_host>
```

Sample:

```
GET/sms/deliver_sms.php?src=TEXTWARE&dst=94774xxxxx&msg=test&msg_id=123
&esme= ADME &type=sms HTTP/1.1
Host: external.app.com
```

The hostname, path and method depend on the corresponding values set for the external application account on the TEAM platform.

4.2 RESPONSE

The TEAM platform expects the external application to reply with a HTTP Status code of 200 (OK) if the SMS was successfully received. Any other status Value than 200, means failure of the message.

A sample successful response from the external application may be:

```
HTTP/1.1 200 OK
Server: Microsoft-IIS/5.1
Content-Type: text/plain
```

5. RECEIVING DELIVERY REPORT

If delivery report is requested by an external application for a submitting SMS, the delivery report is forwarded to the external application. The POST operation is initiated by the TEAM platform to the external application. The hostname, port and path depend on the corresponding values set for the external application account on configured on the TEAM platform.

5.1 REQUEST

The TEAM platform submits a HTTP POST request as follows:

```
POST <sms_deliver_url> HTTP/1.0
Host: <sms_deliver_host>
Content-type: application/x-www-form-urlencoded
Content-length: 79
msg=<msg>&dst=<dst>&esme=<esme>&mc_msg_id=<msg_id>&app_msg_id=
<session_id>&src=<src>&dr_status=<dr_status>
```

Sample:

```
POST /deliveryreport.php HTTP/1.0
Host: external.app.com
Content-type: application/x-www-form-urlencoded
Content-length: 79
msg= id:2987252678 sub:000 dlvrd:000 submit date:1708241553 done ate:1708241553
stat:DELIVRD&dst=test&esme=ADME&mc_msg_id=123654&app_msg_id=123654&src=
94774044339&dr_status=2
```

5.2 RESPONSE

The external application replies with a HTTP status code of 200 (OK) if the delivery report was successfully received. Any other status value than 200 will consider as a failure.

A sample successful response for a delivery report:

```
HTTP/1.1 200 OK
Server: Microsoft-IIS/5.1
Content-Type: text/plain
```

6. INBOX BATCH RETRIEV

Enterprise account users can read their inbox by initiating a HTTP POST operation. The response is returned to the external application over the same HTTP session. The request is formatted in JSON.

6.1 REQUEST

```
POST <bulk_sms_url> HTTP/1.1
Host: <team_host>
Content-Length: 81
Content-Type: application/x-www-form-urlencoded
req={"action":"bulk_get","user":<username>,"password":<password>,"ea":<ea>,"size":2}
```

Sample:

```
POST /bulk/sms.php HTTP/1.1
Host: http://message.textware.lk
Content-Length: 81
Content-Type: application/x-www-form-urlencoded
req={"action":"bulk_get","user":"test","password":"test123","ea":"test","size":2}
```

6.2 RESPONSE

Response Code: OK
Content-Length: 172
Content-Type: text/javascript
Date: Mon, 09 Aug 2010 10:23:43 GMT

Server: MochiWeb/1.0
{"success11": "true","records":
[{"msg_id":1,"smsc_ref":0,"timestamp":1281347180,"from":"94774044339","to":"9
4115100256","udhi":0,"dcs":0,"msg":"dafdfadfadf","status":2

7. EA CREDIT CHECK

7.1 REQUEST INFORMATION

API Name	Get Message Status
Resource URI	https://message.textware.lk:5001/creditchk/index.php
Request header	Content-Type: application/x-www-form-urlencoded
HTTP Method	POST

Body (Json)	{
	"username" : User
	"password" : Pass
	}

7.2 REQUEST PARAMETERS

Parameter Name	Description	Type	Mandatory / Optional
User	Username of the advertiser	String	Mandatory
Pass	Password of the advertiser	String	Mandatory

7.3 RESPONSE INFORMATION

Response	
HTTP response Code	200 – Success Response

Success Response	{
	"ea":Username,
	"credit":Balance
	}
	Or
	{
	"error":"ErrorMsg"
	}

Error Code Description	invalid credentials invalid_data error in parameter Parameter Missing

Thank you!