TECHNICAL SPECIFICATION OF PUSH SMS CONNECTIVITY API

Version 3.0.0

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Document History

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October 23.2019	3.0.0	iSMS Revamp	Mashroor Zaman, Documentation and Compliance	Abdul Latif, Engineering	Ashekur Rahman, Engineering

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1 Purpose of This Document

This document is for companies/clients, who wish to integrate with SSL's Push SMS gateway hereafter referred to as Push Gateway. This document contains detailed information about the methods for integrating this gateway over HTTP/HTTPS protocol using GET/POST method. As a GET/POST client over HTTP/HTTPS protocol can be implemented by using various programming languages, this document is designed both as a getting started guide for the technical staff/developer and a reference document throughout the project implementation.

The client system would require sending SMS messages via GET/POST of parameters as per specified in this document from SSL's Push SMS Gateway. The gateway will access the parameters sent from the client system and send the SMS message(s) to the recipient(s) accordingly. This specification is under active development, any updates to the API specifications may not be notified.

A detailed description of the API parameters is available in this document. However, in order to send the SMS messages via this Gateway, you are required to have the following:

- ✓ a client application to send the required parameters
- ✓ a registered account with SSL Wireless

Note: The client application or server need not be limited to any platforms/languages. In this document we have provided typical examples for connecting to our gateway using multiple language in order to get you started.

For more details or examples not included in this specification, please contact us through email at **service.operation@sslwireless.com**.

2 SMS Gateway Functionality

SSL's Push SMS Gateway offers standard method for connecting any client application through SSL-enabled system to the client application for sending SMS messages to mobile subscribers in Bangladesh and abroad. You can identify mobile phone number and SMS Message Body according to these specifications and, also integrate to the gateway via widely used web technology - HTTP.

This API makes it easy to integrate your applications to the Push SMS Gateway.

The following is a sample architecture reflecting the relationship between customer or user or subscriber, your application, SSL's Push SMS Gateway and the telecom operators.

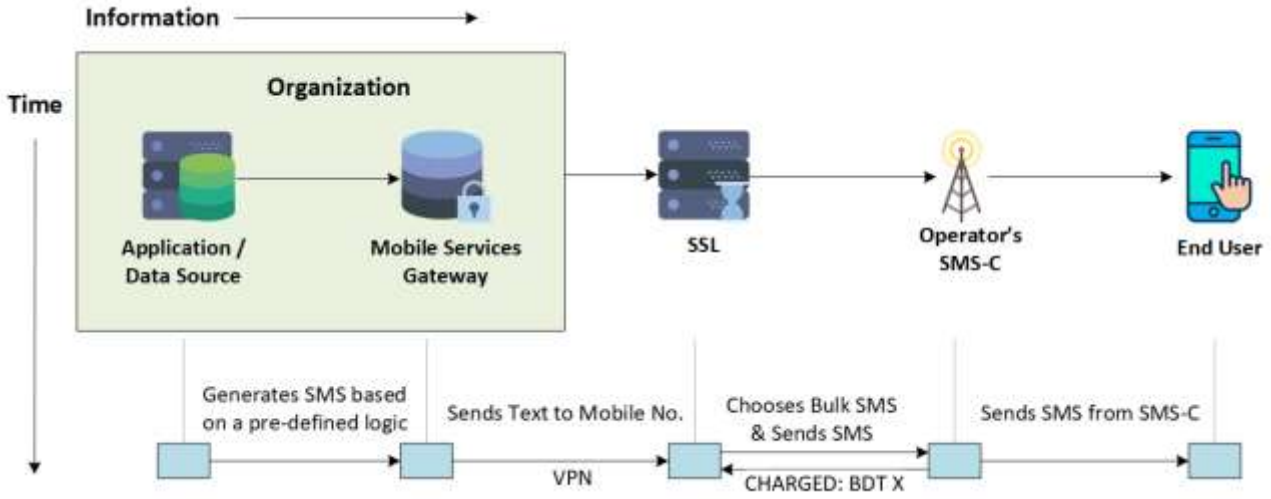

Figure 1: SSL's Push SMS Gateway

The following steps exhibits the procedure of a customer receiving a SMS text from your application through SSL's Push SMS gateway and the telecom operator's SMS-C.

1. The client application submits the Push SMS information to the SSL's Push SMS Gateway via the given API parameters.
2. The Push SMS Gateway sends the message to the respective telecom operator.
3. The telecom operator sends the messages to the recipient mobile phone number.

3 List of Status Code

There are two types of status code for Push SMS:

1. **API Status Code**
2. **SMS Status Code**

3.1 API Status Code

The API status codes for push SMS are given below:

Status	Code	Status Meaning	Description
SUCCESS	200	SUCCESS	Successful
FAILED	4001	Unauthorized	Invalid API token
	4002	SID/Stakeholder is not permitted	Stakeholder/SID is not permitted to send SMS.
	4003	IP Blacklisted	Client IP is backlisted in SSL API gateway.
	4004	End point Not Found	Invalid API URL.
	4005	Invalid request format	Invalid content type or is not valid json.
	4020	Invalid CSMS ID	CSMS ID is not valid.
	4022	Required Parameter Missing	When any mandatory field has not been filled in the request parameters.
	4023	Duplicate CMS ID	CSMS ID is duplicate in the same day.
	4025	Invalid MSISDN	MSISDN is invalid.
	4026	Blocked MSISDN	MSISDN is blocked.
	4027	Message length exceeded	Maximum message length exceeded.
	4028	Invalid message data	No SMS is success on bulk or dynamic request.
	4029	Too many requests	API Request limit exceeded
	4030	Limit Exceed	Max msisdn exceed for one request
	4031	TPS Exceeded	The limit of TPS exceeds
	5000	Unknown Error	Error for undefined reason

3.2 SMS Status Code

The SMS status codes for push SMS are given below:

Status	Message	Description
SUCCESS	SUCCESS	Successful
INVALID	Invalid MSISDN	Provided MSISDN is Invalid
	Message length exceeded	Maximum message length exceeded
	Invalid CSMS ID	CSMS ID is Invalid
DUPLICATE	Duplicate CMS ID	CSMS ID is duplicate on the same day.
	Duplicate MSISDN	MSISDN is duplicate on the same request.

4 API Specification

There are three types of API for Push SMS:

1. Single SMS
2. Bulk SMS
3. Dynamic SMS

4.1 Single SMS

This API is used for sending a single SMS. If the client wants to send an SMS to one MSISDN only, then this API will be used.

- **URL:** <domain>/api/v3/send-sms
- **Request Method:** GET or POST
- **Request Content Type:** JSON
- **Response Type:** JSON

4.1.1 Request Parameters

Request parameters for sending single SMS are given below:

Name	Mandatory	Type	Length	Description
api_token	Yes	Alphanumeric	50	It will be provided by SSL for authentication.
sid	Yes	Alphanumeric	20	This is a unique id for the specific brand/masking name for the client, provide by SSL
msisdn	Yes	Numeric	16	This is the mobile number of SMS recipient.
sms	Yes	Alphanumeric	1000	This is the SMS body to be received by the recipient. SMS length will be different for Unicode SMS.
csms_id	Yes	Alphanumeric	20	For each SMS there will be a unique reference ID from Client. The csms_id will be unique for the same day only

4.1.2 Sample Request

```
{
  "api_token": "1279-98d2bb25-3f7e-49bf-a1e2-5d1a6c6c588f",
  "sid": "ENGINEERING",
  "msisdn": "88019XXXXXXXX",
  "sms": "Message Body",
  "csms_id": "4473433434pZ684333392"
}
```

4.1.3 Sample Response


```
{
   "status": "SUCCESS",
   "status_code": 200,
   "error_message": "",
   "smsinfo": [
      {
         "sms_status": "SUCCESS",
         "status_message": "Success",
         "msisdn": "88019XXXXXXXX",
         "sms_type": "EN",
         "sms_body": "Message Body",
         "csms_id": "4473433434pZ684333392",
         "reference_id": "5da2f0b5ba3a2248110"
      }
   ]
}
```


4.1.4 Response Parameters

Response parameters for single SMS are given below:

Parameter	Description
status	It informs the status whether it is SUCCESS or FAIL
status_code	Check API status code list in 3.1
error_message	If status failed it will return an error message otherwise return empty.
smsinfo	List of SMS details object. One object for each SMS.
sms_status	It's indicated SMS is a success or invalid or duplicate. Check SMS status in 3.2
status_message	Check SMS status in 3.2
msisdn	Client provided msisdn will be here.
sms_type	If provided SMS type is Unicode then SMS type will return as **BN**, otherwise, it will return as **EN**.
sms_body	Client provided SMS text will be here.
csms_id	Client provided reference ID will be here
reference_id	For each SMS, SSL will provide a reference ID

4.2 Bulk SMS

This API is used for sending bulk SMS. If the client wants to send SMS with a common SMS body to multiple MSISDN, then this API will be used.

- **URL:** <domain>/api/v3/send-sms/bulk
- **Request Method:** POST
- **Request Content Type:** JSON
- **Response Type:** JSON
- **MSISDN Limit per Request:** 100

4.2.1 Request Parameters

Request parameters for sending bulk SMS are given below:

Name	Mandatory	Type	Length	Description
api_token	Yes	Alphanumeric	50	It will be provided by SSL for authentication.
sid	Yes	Alphanumeric	20	This is a unique id for the specific brand/masking name for the client, provide by SSL
msisdn	Yes	Numeric	16	This is the mobile number of the recipients. It must be an array.
sms	Yes	Alphanumeric	1000	This is the SMS body to be received by the recipient. SMS length will be different for Unicode SMS.
batch_csms_id	Yes	Alphanumeric	20	For each bulk request there will be a unique reference ID for the Client

4.2.2 Sample Request

```
{
  "api_token": "1279-98d2bb25-3f7e-49bf-a1e2-5d1a6c6c588f",
  "sid": "ENGINEERING",
  "msisdn": [
    "019XXXXXXXX",
    "017XXXXXXXX",
    "018XXXXXXXX"
  ],
  "sms": "Message Body",
  "batch_csms_id": "4437343343P3Z684333392"
}
```

4.2.3 Sample Response


```
{
"status": "SUCCESS",
"status_code": 200,
"error_message": "",
"smsinfo": [
{
"sms_status": "SUCCESS",
"status_message": "Success",
"msisdn": "88019XXXXXXXX",
"sms_type": "EN",
"sms_body": "Message Body",
"csms_id": "4437343343P3Z684333392",
"reference_id": "5da2f0b5ba3a2248110"
},
{
"sms_status": "SUCCESS",
"status_message": "Success",
"msisdn": "88017XXXXXXXX",
"sms_type": "EN",
"sms_body": "Message Body",
"csms_id": "4437343343P3Z684333392",
"reference_id": "5da2f0b5ba3a2248111"
},
{
"sms_status": "SUCCESS",
"status_message": "Success",
"msisdn": "88018XXXXXXXX",
"sms_type": "EN",
"sms_body": "Message Body",
"csms_id": "4437343343P3Z684333392",
"reference_id": "5da2f0b5ba3a2248112"
}
]
}
```

4.2.4 Response Parameters

Response parameters for bulk SMS are given below:

Parameter	Description
status	It will inform the status whether it is SUCCESS or FAIL
status_code	Check the API status code list in 3.1
error_message	If the status is failed then it will return an error message, otherwise, it will return empty.
smsinfo	List of SMS details object. One object for each SMS.
sms_status	It's indicated SMS is a success or invalid or duplicate. Check SMS status in 3.2
status_message	Check SMS status in 3.2.
msisdn	Client provided msisdn will be here.
sms_type	If provided SMS type is Unicode then SMS type will return as **BN**, otherwise, it will return as **EN**.
sms_body	Client provided SMS text will be here.
csms_id	Client provided reference ID will be here
reference_id	For each SMS, SSL will provide a reference ID

4.3 Dynamic SMS

This API is used for sending dynamic SMS. If the client wants to **send SMS to multiple MSISDN each with a unique SMS body**, then this API will be used.

- **URL:** <domain>/api/v3/send-sms/dynamic
- **Request Method:** POST
- **Request Content Type:** JSON
- **Response Type:** JSON
- **SMS Limit per Request: 100**

4.3.1 Request Parameters

Request parameters for sending Dynamic SMS are given below:

Name	Mandatory	Type	Length	Description
api_token	Yes	Alphanumeric	50	It will be provided by SSL for authentication.
sid	Yes	Alphanumeric	20	This is a unique id for the specific brand/masking name for the client, provide by SSL.
msisdn	Yes	Numeric	16	This is the mobile number of the SMS recipient.
text	Yes	Alphanumeric	1000	This is the SMS message body to be received by the recipient. SMS length will be different for Unicode SMS.
csms_id	Yes	Alphanumeric	20	For each SMS request there will be a unique reference ID for Client

4.3.2 Sample Request


```
{
   "api_token": "1279-98d2bb25-3f7e-49bf-a1e2-5d1a6c6c588f",
   "sid": "ENGINEERING",
   "sms": [
      {
         "text": "Message Body 1",
         "msisdn": "019XXXXXXXX",
         "csms_id":"234444343222"
      },
      {
         "text": "Message Body 2",
         "msisdn": "017XXXXXXXX",
         "csms_id":"222334242244"
      },
      {
         "text": "Message Body 3",
         "msisdn": "018XXXXXXXX",
         "csms_id":"232352235235"
      }
   ]
}
```

4.3.3 Sample Response

{
"status": "SUCCESS",
"status_code": 200,
"error_message": "",
"smsinfo": [
{
"sms_status": "SUCCESS",
"status_message": "Success",
"msisdn": "88019XXXXXXXX",
"sms_type": "EN",
"sms_body": "Message Body",
"csms_id": "234444343222",
"reference_id": "5da2f0b5ba3a2248110"
},
{
"sms_status": "SUCCESS",
"status_message": "Success",
"msisdn": "88017XXXXXXXX",
"sms_type": "EN",
"sms_body": "Message Body",
"csms_id": "222334242244",
"reference_id": "5da2f0b5ba3a2248111"
},
{
"sms_status": "SUCCESS",
"status_message": "Success",
"msisdn": "88018XXXXXXXX",
"sms_type": "EN",
"sms_body": "Message Body",
"csms_id": "232352235235",
"reference_id": "5da2f0b5ba3a2248112"
}
]
}

4.3.4 Response Parameters

Response parameters for dynamic SMS are listed below:

Parameter	Description
status	It will inform the status whether it is SUCCESS or FAIL
status_code	Check API status code in 3.1
error_message	If the status is failed then it will return an error message, otherwise, it will return empty.
smsinfo	List of SMS details object. One object for each SMS.
sms_status	It's indicated SMS is a success or invalid or duplicate. Check API status code list in 3.2
status_message	Check SMS status in 3.2.
msisdn	Client's provided MSISDN will be here.
sms_type	If provided SMS type is Unicode then SMS type will return as **BN**, otherwise, it will return as **EN**.
sms_body	Client's provided SMS text will be here.
csms_id	Client's provided reference ID will be here
reference_id	For each SMS, SSL will provide a reference ID

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