



PRP Services Private Limited

SMS Sending API Documentation



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Overview

This guide provides specifications of the HTTP/HTTPS based API provided by PRP SERVICES PRIVATE LIMITED for the automated sending of SMS via the Internet. This guide is intended for developers planning on integrating their systems with PRP's SMS service. It also provides the information about sending the Unicode, Binary and WAP messages.

Assumptions

This guide assumes that you are familiar with and have experience applying the following technologies and concepts:

- ❖ HTTP/HTTPS communications with the GET and POST methods for parameter through API
- ❖ A programming language such as ASP.NET, C# OR LINUX to integrate the HTTP URL with the Application
- ❖ Application designed in any of the above Language should be capable of capturing the Message ID (MID)

Required Environment

In order to use the HTTP/HTTPS based API, you will need to have a system that has internet connectivity on outbound port 80 (HTTP) or 443 (HTTPS). This connectivity may be direct to the internet, or may be via a firewall or proxy server.

Additionally, should you wish to receive delivery reports (DLRs) from the PRP system, you must have a web server that is able to receive incoming requests from the Internet on either port 80 (HTTP) or 443 (HTTPS). This web server does not necessarily have to be running on the same machine that is sending messages to PRP.

This is one of the simpler server-based forms of communication. It can be used either in the form of a HTTP POST or HTTP GET. We recommend POST for larger data transfer and data security. All calls to the API must be URL encoded. The parameter names are case sensitive.

API Parameter specification

Whenever the Client Application hits the HTTP URL, it should include the following parameters as per the requirement. The following parameters should be used in the same order as given below to call HTTP API using POST or GET method.

Parameters supported by the API call include:

NAME	PARAMETER	DESCRIPTION	REQUIRED VALUE	DEFAULT TYPE	TYPE
Username	uname	Username assigned to account	Username		Required
Password	pass	Password assigned to the account	Password		Required
SenderID	send	Source address for the msg	Sender ID as required		Required
Destination Number	dest	Destination Address/mobile Number of the message	Destination Mobile No.		Required
Message	msg	Text content of the msg (length should not cross 459 characters if concatenation is on, or 160 characters for 8bit msg; 280 characters for binary and 70 characters for Unicode)	Body of the msg		Required
Priority	priority	The SMSC will process it based on the priority value. If this value is not set in the URL then our application will take the default value set at the account level	1	Account specific	Optional
Validity Period	sctm	It contains the system data and time in which you want to send sms, it must be greater than or equal to current system date and time. for instance it you want to send message now pass current system date and time please mind you date must be in yyyy-mm-dd format and time should be in 24 hours clock format	YYYY-MM-DD HH:MM (2012-04-14 11:22)		Optional

Sample HTTP URL Format

The below HTTP API can be used by Client to send the messages to PRP's Server. A sample of the URL could be in the below format:

API FOR MESSAGE SENDING:

```
https://www.prpsms.co.in/API/SendMsg.aspx?uname=xxxxxxxx&pass=xxxxx&send=xxxxxx&dest=xxxxxxxxxxx&msg=xxxxxxx&priority=1&sctm=xxxx-xx-xx xx:xx
```

For Instance with all parameters:

```
https://www.prpsms.co.in/API/SendMsg.aspx?uname=20120003&pass=123456&send=PROMO&dest=9835613280&msg=hi&priority=1&sctm=2013-04-14 11:22
```

For Instance without optional parameters (priority & sctm):

```
https://www.prpsms.co.in/API/SendMsg.aspx?uname=20120003&pass=123456&send=PROMO&dest=9835613280&msg=hi
```

Note: For every successful hit you will get a message id of 19 characters and for every unsuccessful hit you will get error message with error code of respective error type.

Successful Transmission of SMS

For each successful submission, the API would return a unique message ID (MID) for that transaction. The Client's Application should capture the MID and if a Delivery Report (DLR) can be fetched against that MID.

MOBILE_NO-MESSAGE_ID OF 19 CHARACTERS

7837XXXXXX-2013012014401621691

This message ID then can be used to track the status of the message and receive the DLR against this MID through DLR URL.

Error Codes

The following error codes may be displayed while hitting the HTTP API if there is any wrong parameter entered or issue with the Account:

Error Code	Description
0x200	Invalid User Id / Password
0x003	Invalid message. Message does not match with approved template
0x003	Masking not mapped with your account.

Get vs. Post

HTTP POST requests supply additional data from the client (browser) to the server in the message body. In contrast, GET requests include all required data in the URL. Forms in HTML can use either method by specifying `method="POST"` or `method="GET"` (default) in the `<form>` element. The method specified determines how form data is submitted to the server. When the method is GET, all form data is encoded into the URL, appended to the action URL as query string parameters. With POST, form data appears within the message body of the HTTP request.

Comparison Chart

	GET (HTTP)	POST (HTTP)
History	Parameters remain in browser history because they are part of the URL	Parameters are not saved in browser history.
Bookmarked	Can be bookmarked.	Can not be bookmarked.
BACK button/re-submit behaviour	GET requests are re-executed but may not be re-submitted to server if the HTML is stored in the browser cache.	The browser usually alerts the user that data will need to be re-submitted.
Encoding type (enctype attribute)	application/x-www-form-urlencoded	multipart/form-data or application/x-www-form-urlencoded Use multipart encoding for binary data.
Parameters	can send but the parameter data is limited to what we can stuff into the request line (URL). Safest to use less than 2K of parameters, some servers handle up to 64K	Can send parameters, including uploading files, to the server.
Hacked	Easier to hack for script kiddies	More difficult to hack
Restrictions on form data type	Yes, only ASCII characters allowed.	No restrictions. Binary data is also allowed.
Security	GET is less secure compared to POST because data sent is part of the URL. So it's saved in browser history and server logs in plaintext.	POST is a little safer than GET because the parameters are not stored in browser history or in web server logs.
Restrictions on form data length	Yes, since form data is in the URL and URL length is restricted. A safe URL length limit is often 2048 characters but varies by browser and web server.	No restrictions
Usability	GET method should not be used when sending passwords or other sensitive information.	POST method used when sending passwords or other sensitive information.
Visibility	GET method is visible to everyone (it will be displayed in the browser's address bar) and has limits on the amount of information to send.	POST method variables are not displayed in the URL.
Cached	Can be cached	Not cached
Large variable values	7607 character maximum size.	8 Mb max size for the POST method.

About Us

PRP Services Private Limited provides cloud based communication services to enterprises across SMS, Voice, MISSED CALL, IVR and CLOUD PBX SERVICES, TOLL FREE NUMBER. Services enabled by APIs can be directly integrated into the customer's applications. SaaS based applications are designed to meet the most prevalent business needs. In addition to these, PRP also allows customization of solutions for business-specific needs, earning itself the status of a specialist in technology solutions. Network-level integration with operators has enabled PRP to pioneer various technological innovations and helped it achieve the highest SLAs and service reliability available today. An intense belief in the potential of cloud communications to innovate and deliver these services in a uniquely simple and integrated way is what the company thrives on, every day.

FOR MORE DETAILS,

CALL OUR SUPPORT HELPLINE **+91-1800-313-5152** EXTN. 2

Happy Coding!!!

PRP Services Private Limited Team
