PowerAPI – SMS (HTTP) with Visualize Link

mGage India

mGage India

TABLE OF CONTENTS

PowerAPI – SMS (HTTP) 1

Preface 4

1 A Few Assumptions 4

2 Sample HTTP URL Format 4

3 Required Environment 5

4 mGage API Parameters Specification 5

5 Successful Transmission of SMS 7

6 Error Codes 8

7 Sending Normal Text Message (160 characters) 8

8 Sending Text Message of more than 160 characters 9

9 Sending Unicode Character 9

10 Sending Binary Message (160 characters) 12

11 Sending Binary Message of more than 160 characters 13

12 Sending WAP Messages 14

13 Sending International Messages 14

14 sending a visualize enabled message 15

15 CALL BACK Delivery Report 16

16 Sample URL Format 18

17 Polling Delivery Reports: 18

17.1 Key Notes for polling DLR 20

17.2 Sample response on HTTP for tilde separated: 21

17.3 Sample response on HTTP XML response: 21

18 Status Codes and Reason received on the URL 22

mGage India

PREFACE

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

1 A FEW ASSUMPTIONS

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

- HTTP/HTTPS communications using the GET and POST methods for parameter passing through API.
- A programming language such as Java, C/C++, Visual Basic or PHP 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).

2 SAMPLE HTTP URL FORMAT

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

Sample Format:

https://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXX&pass=XXX&send=Alerts&dest=91XXXXXXXXXX&urltracking=yes/no&cust_mid=xxxxxxxxxxxxxxxxx&mtag=xxxxxxxxxxxxxxxxx&msg=XXXXXXX[~VL:XXXX~]

```
API URL:
https://www.mgage.solutions/SendSMS/sendmsg.php?uname=mGPrSale&pass=D$b9N~O8&send=Alerts&dest=919886589272&urltracking=yes&cust_mid=ae0943d9-a075-4d63-b8aa-d67f606f9203&mtag=transmsgtag12&msg=Dear Suhas, Thank You for showing interest in HDFC Life Click2Protect Plus, term insurance plan. To check your premium, click here[~VL:2790~], TC Apply.
```

3 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 mGage 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 mGage.

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.

4 MGAGE API PARAMETERS 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.

Name	Parameter	Description	Required Value	Default Value	Type
Username	uname	Username Assigned to the account	Username		Required
Password	Pass	Password Assigned to the account	Password		Required

SenderID	send	Source Address for the message	Sender ID as required		Required
Destination Number	dest	Destination Address/Mobile Number of the message	Destination Mobile Number		Required
Message	msg	Text Content of the message (max length should not cross 459 characters (if concatenation is on) or 160 character for 8 bit message; 280 characters for binary and 70 for Unicode	Body of the message		Required
Priority	prty	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, 2, 3, 4, 5	Account Specific	Optional
Validity Period	vp	Validity period to expire the message in the set time which can be set from 1 to 180 minutes.	1 to 180 minutes	180	Optional
Concatenation	concat	Enables sending multipart messages to the mobile.	0 = For limiting length to 160 Char 1 = For concatenation	0	Optional
International	intl	Enable sending the International Messages	0 = OFF 1 = ON	0	Optional if sms is for India.
User Data Header	udhi	Indicating that message payload is binary message	0 = For normal text message	0	Required for Unicode Messages

			1 = For binary		
Data Coding Scheme	dcs	Indicate the DCS value for the message. The 0 value indicates that the message payload is 8 bit data	0 - Text, 4 - binary, 8 -Unicode, 16 – Flash, 245 – binary including Ringtone or picture	0	Required for Unicode Messages
Port	port	Port number to send the port specific messages	Port Number based on Handset	No Value	Optional
WAP URL	wapurl	Set the value for wap url	URL	No Value	Required
WAP TEXT	waptxt	Set the value for WAP Text	Text Message	No Value	Required
Unicode Text	unicode	User this value if the submitted text is Unicode (even English)	0-Plain, 1-Unicode		
Visualize enabled Url tracking	urltracking	Use this value if message text contains url to be tracked using Visualize links If Yes, the Visualize link in the message should be passed as [~VL:<Visualize Link ID>~] If No, the Visualize link in the message shouldn't be passed.	Yes or No	No Value	Optional
Message tag	mtag	Message tag for identifying the type of message	No	NA	Optional
Customer reference number	cust_mid	Unique reference number for tracking each request	No	NA	Optional

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

6 ERROR CODES

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

Error Code	Descriptions
0x200	Invalid Username or Password
0x201	Account Suspended due to some reason.
0x202	Invalid Source Address/Sender Id. As per GSM standard the sender ID should be within 11 characters.
0x203	Message Length Exceeded (more than 160 chars) if concat is set to 0
0x204	Message Length Exceeded (more than 459 chars) if concat is set to 1
0x205	DLR URL is not set
0x206	Only the subscribed service type can be accessed so make sure that the service type you are trying to connect with.
0x207	Invalid Source IP. Kindly check if the IP is responding.
0x208	Account Deactivated/Expired.
0x209	Invalid Message Length (less than 160 chars) if concat is set to 1
0x210	Invalid Parameter values
0x211	Invalid Message Length (more than 280 chars)
0x212	Invalid Message Length
0x213 *0x007*	Invalid Destination number Invalid Link ID

7 SENDING NORMAL TEXT MESSAGE (160 CHARACTERS)

While sending normal 160 character messages Client needs to ensure that any optional parameters are not used (except for dlr-url to receive delivery acknowledgment on to predefined URL). Following is the sample API call that will set the message priority for level 3 and Validity Period to 30 Minutes.

Sample Format:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XYZ&pass=ABC&send=mGage&dest=

919980524000&msg=Testing&prty=3&vp=30

8 SENDING TEXT MESSAGE OF MORE THAN 160 CHARACTERS

The HTTP API support SAR (Segmentation and Reassembly - often called as concatenated SMS) of the message. The API will support maximum of 9 segmentations with max character limit of 1224. Should you need to send concatenated SMS, you need to set 'CONCAT' parameter value as 1. Following is sample API call:

Sample Format:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXX&pass=XXX&send=XXXXXXXX&dest=91XXXXXXXXXX&msg=(Message of more than 160 characters)&concat=1

9 SENDING UNICODE CHARACTER

mGage HTTP API has end to end support for Unicode characters. Should need to send a Unicode message, you need to set DCS value to 8 while the message text length should not exceed 70 characters. Following is sample call:

Sample Format:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXX&pass=XXX&send=XXXXXXXX&dest=91XXXXXXXXXX&msg=UnicodeString&udhi=1&dcs=8

When the UDHI value is set to 1 in API, it is required to tack the header before the message contents. If a single part Binary or Unicode message is sent, there is no need to set the udhi value and attach the header in the message. The API considers the default value of the udhi to zero.

Sample Format for Single Part message:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXXXX&pass=XXXX&send=XXXXX XXX&dest=91XXXXXXXXXX&msg=093909010917093E092E093E002000200939094B00200 917092F093E&dcs=8

In the above Sample message, it is a single part message and there is no need to tack header and set the udhi value.

The header includes the values of length of header in octet, Mobile source and destination ports and message parts information.

One way of sending concatenated SMS (CSMS) is to split the message into parts, and sending each part with a User Data Header (UDH) tacked onto the beginning. A UDH can be used for various purposes and its contents and size varies accordingly, but a UDH for concatenating SMSes look like this:

- Field 1 (1 octet): Length of User Data Header, in this case 05.
- Field 2 (1 octet): Information Element Identifier, equal to 00 (Concatenated short messages, 8-bit reference number)
- Field 3 (1 octet): Length of the header, excluding the first two fields; equal to 03
- Field 4 (1 octet): 00-FF, CSMS reference number, must be same for all the SMS parts in the CSMS
- Field 5 (1 octet): 00-FF, total number of parts. The value shall remain constant for every short message which makes up the concatenated short message. If the value is zero then the receiving entity shall ignore the whole information element
- Field 6 (1 octet): 00-FF, this part's number in the sequence. The value shall start at 1 and increment for every short message which makes up the concatenated short message. If the value is zero or greater than the value in Field 5, then the receiving entity shall ignore the whole information element.

Sample Format for Multi-part message:

Part I:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXXXX&pass=XXXX&send=XXXXX XXX&dest=91XXXXXXXXXX&msg=050003FA05010938094D0926094D092B094D0938094 D0926094D092B094D0938094D0926092B094D0938094D0926094D0917094D0926094D092B09 4D0917094D0926094D092B094D0917094D0926094D092B094D0938094D092B094D0938094D0 926094D092B094D0938094D0926094D092B094D0938094D0926092B094D0938094D0926092B 0938094D0926&udhi=1&dcs=8

Part II:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXXXX&pass=XXXX&send=XXXXX XXX&dest=91XXXXXXXXXX&msg=050003FA0502094D092B094D0938094D0926094D092 B094D0938094D09260940092B094D0939094D0938094D0926094D0915094D092B094D0939094 D0915094D0938094D09260939094D092B094D0915094D0932094D0938094D0927094D092B09 4D0915094D0932094D0938094D0927094D092B094D0915094D0938094D0927094D092B094D0 915094D0938&udhi=1&dcs=8

Part III:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXXXX&pass=XXXX&send=XXXXX XXX&dest=91XXXXXXXXXX&msg=050003FA0503094D0927094D092B094D0915094D093 2094D0938094D0926094D091D094D092B094D0915094D0938094D0927094D092B094D091509 4D0938094D0927094D092B094D0932094D0915094D0938094D0927094D092B094D0938094D0 926094D0915094D0934094D092B094D0926094D0916094D092B094D0915094D0938094D0926 092B094D0915&udhi=1&dcs=8

Part IV:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXXXX&pass=XXXX&send=XXXXX XXX&dest=91XXXXXXXXXX&msg=050003FA0505094D0938094D0926094D0915094D092 B09410913092F094D0907092F094D0935093F091A094D0909092F094D0917094D092E0930094 D092E094D0938094D0926003B0027091A094D092A094D&udhi=1&dcs=8

Part V:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXXXX&pass=XXXX&send=XXXXX XXX&dest=91XXXXXXXXXX&msg=050003FA0504094D091C094D0938094D0926094D092 B094D0915094D0934094D092B094D0938094D0926094D0915094D0934094D092B094D093909 4D0938094D0926094D092B094D0916094D0938094D09260932094D0915094D092B094D09390 94D0938094D0926094D0915094D09320939094D092B094D0938094D0926094D0915094D0932 0939094D092B&udhi=1&dcs=8

In above multi-part message, the udhi values should be set to 1 and the header should be tacked to every part message.

10 SENDING BINARY MESSAGE (160 CHARACTERS)

HTTP API supports for 8 bit binary message such as Ring tones, logos, Picture Messages. However, it needs to set certain parameter for the Binary message in HTTP API else the message would be treated as normal text message and may not receive as expected. The following parameters need to be set for sending binary messages:

• UDH should be set to 1

• DCS value should be 4 or 240 or 245 (based on the spec)

• Message should not exceed 280 characters

Following is the sample call:

Sample Format:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXX&pass=AXX&send=XXXXXXXX&dest=91XXXXXXXXXX&msg=BinaryMessageString&udhi=1&dcs=4

If the port number is defined in the header, the mobile device automatically identifies the message type whether it is a ringtone, picture, vCard, vCalendar etc.

There are few standard ports for mobile device that can be included in the messages to send specific message:

Type	Ports in Decimal
Ringtone	5505
CGI /CLI	5507
Picture Message	5514
Operator Logo	5506
VCard	9204
VCard Secure	9206
VCalendar	9205
VCalendar Secure	9207
E-Mail Notification	5512

DMCP (obsolete)	5508

11 SENDING BINARY MESSAGE OF MORE THAN 160 CHARACTERS

The Multi-part or concatenated SMS could also be referred to as a PDU Mode SMS. The number of parts that a multi-part or PDU mode SMS message may contain depends technically upon a header message but mostly upon the device sending or receiving the SMS and also upon the service provider.

In theory, the concatenated SMS may consist of up to 255 separate SMS messages that are concatenated in order to create a single long SMS message. Because of the nature of the SMS, the chance that these parts of the SMS message arrive in order is slim and therefore a strategy is implemented in order for the original long message to be reconstructed.

The Concat parameter can be set as 1 in the HTTP API to send more than 160 characters Binary message.

Following is the sample call:

Sample Format:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXX&pass=AXX&send=XXXXXXXX&dest=91XXXXXXXXXX&msg=BinaryMessageString&udhi=1&dcs=4&concat=1

12 SENDING WAP MESSAGES

HTTP API also supports the WAP (Wireless Application Protocol) messages where the following parameters need to be set:

Sample Format:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXX&pass=AXX&send=XXXXXXXX&dest=91XXXXXXXXXX&wapurl=http://mGagewap.com/mobile&waptxt=mGage

The API does not support the WAP concatenated SMS and can be sent max character limit of 160 characters.

13 SENDING INTERNATIONAL MESSAGES

HTTP API supports sending the International messages. To send the International messages through HTTP API, it is required to set the intl parameter as 1. The concatenated International message can also be sent through the API by adding the concat parameter.

There are some countries where the Sender ID is accepted only Numeric; hence, it needs to be taken care of while sending the International messages.

PTO

The following action would be taken when the Intl parameter is set as ON/OFF and the Destination Number is entered with different length:

API International Flag	Destination Number Length	Action
OFF/ON	Less than 9 digits or greater than 15 digits	Reject
OFF/ON	9 digits	Process to international
OFF	10 Digits	Process to Domestic and prefix 91
ON	10 Digits	Process to international
OFF/ON	11 digits starting with 0	Process to Domestic, remove 0 and prefix 91
ON/OFF	12 digits and starts with 91	Process to domestic
ON/OFF	All other cases for length between 12 to 15 digits only.	Process to international
Undefined	If mobile number is 12 digits starting with 91 send to domestic all other cases send to international	

Following is the sample call:

Sample Format:

http://www.mgage.solutions/SendSMS/sendmsg.php?uname=XXX&pass=AXX&send=XXXXXXXX&dest=91XXXXXXXXXX&msg=MessageString&intl=1&concat=1

14 SENDING A VISUALIZE ENABLED MESSAGE

To send visualize enabled URL in message content, Client needs to add parameter "urltracking" and set it to "yes". Following is the sample API call that will enable link tracking in the message text.

Sample Format:

http://www.unicel.in/SendSMS/sendmsg.php?dest=<destinationnumber>&uname=<username>&pass=<password>&send=<senderID>&urltracking=<yes>&msg=<messagecontent>

- Customer can include one or more visualize links ID's in the API.
- The format of the link will be '[~VL:<Visualize Link ID>~]'

- Currently customer should remember visualize links ID's or check the same from GUI and use those ID's in the API.

15 CALL BACK DELIVERY REPORT

Each time the SMS gateway attempts to deliver a SMS message to a mobile device, a Delivery Report (DLR) is generated against every MID (Message ID). This delivery report includes an indication if the message was successfully delivered and if not, the reason for failure.

The Delivery Report (DLR) for the messages sent through HTTP API can be downloaded from the Delivery Report frontend (http://www.mgage.solutions/) or using the DLR URL provided by Client.

Each time the SMS gateway attempts to deliver a SMS message to a mobile device, a Delivery Report (DLR) is generated against every MID (Message ID). This delivery report includes an indication if the message was successfully delivered and if not, the reason for failure.

The Delivery URL provided in this document is used to receive the Delivery Report against every MID generated on submission of message to mGage. This option is available for any customer who has opted to receive the Delivery Report on specifically on HTTP.

For this purpose an API needs to be provided to mGage to receive the API calls on delivery reports. Against this API call mGage can pass parameters as requested

Parameters supported by the API call include

Parameters	**Type**	**Description**
SID	bigint (25)	This Unique Message ID that is provided by mGage for tracking purpose against every submission of SMS for delivery done to mGage.
DEST	bigint (15)	The number to which the SMS was intended to be terminated.
STIME	timestamp	This is a time stamp from mGage Servers against the submission of message for the indicated MID.(*YYYY-MM-YY HH:MM:SS)*
DTIME	timestamp	This is a time stamp received by mGage from the subscribers terminating operator against the submission of message for the indicated MID. (*YYYY-MM-YY HH:MM:SS)*
STATUS	Varchar (30)	This indicates the final status of the message, the description of the status is also provided below in this document.
REASON	tinyint (4)	This is the reason for the final status received from the terminating operator on the delivery status.

When a Message is sent by the Client through HTTP API or XML API, a MID is generated and sent to the Client against the message submission. The Application at Client's end needs to capture the MID after sending the message and then should keep listening to the DLR API to capture the DLR against the MID sent.

16 SAMPLE URL FORMAT

The DLR URL needs to be provided by Client so that the same can be configured in the Application at mGage's Server to send the Delivery Report. A sample of the URL could be in the below format

Sample Format:

CLIENTSERVERIP/PATH?sid=XX&dest=XX&stime=YYYY-MM-YY HH:MM:SS&dtime=YYYY-MM-YY HH:MM:SS&status=XXX&reason=XXXX

Sample API Call made by mGage:

CLIENTSERVERIP/PATH?sid=21232324243432424234&dest=919886430811&stime=2011-04-21 12:32:04&dtime=2011-04-21 12:32:16&status=001&reason=DELIVRD

17 POLLING DELIVERY REPORTS:

When a Message is sent by the Client through HTTP API or XML API, a uniqueID is generated viz MID and sent to the Client on submission. mGage will make delivery attempt to deliver the SMS, on completion the SMS gateway will receive a Delivery Report (DLR) against every MID (Message ID). This delivery report includes an indication if the message was successfully delivered and if not, the reason for failure.

The Delivery URL provided in this document is used to poll Delivery Report if any on scheduled intervals. This option is available for any customer who has opted to poll Delivery Report specifically on HTTP/HTTPS. For this purpose an API call needs to be submitted to mGage to poll for any available delivery reports which would include the below parameters:

Name	Parameter	Description	Required Value	Type
Username	uname	Username Assigned to the account	Username	Required
Password	pass	Password Assigned to the account	Password	Required
Type	type	Preferable format in which response is expected. Plain for HTTP and XML for XML	Yes	Required

Sample Format for HTTP:

http://www.mgage.solutions/SendSMS/dlr_status.php?uname=XXX&pass=XXX&type=plain

Sample Format for XML:

http://www.mgage.solutions/SendSMS/dlr_status.php?uname=XXX&pass=XXX&type=xml

On submitting the above request mGage will check if for any available delivery reports that could be provided and submit the same as a echo response with the below parameters

Parameters	Type	Description
MID	bigint (25)	This Unique Message ID that is provided by mGage for tracking purpose against every submission of SMS for delivery done to mGage.
STIME	timestamp	This is a time stamp from mGage Servers against the submission of message for the indicated MID. (
DTIME	timestamp	This is a time stamp received by mGage from the subscribers terminating operator against the submission of message for the indicated MID.
STATUS	Varchar (30)	This indicates the final status of the message, the description of the status is also provided below in this document.
REASON	Varchar (30)	This is the reason for the final status received from the terminating operator on the delivery status.
SENDERID	Varchar(15)	Source address for the message that was received by the MS.
DEST	bigint (15)	The number to which the SMS was intended to be terminated.

17.1 Key Notes for polling DLR

- Delivery reports are available for up to 3 hours from receipt.
- Each API call will have upto 100 delivery reports
- It is recommended that incase there are no delivery reports please restrict API calls to one every 5 minutes.

17.2 Sample response on HTTP for tilde separated:

In a HTTP API request each of the parameters is separated by "~" (tild). A sample of the same is provided below

```
mid~stime~dtime~status~reason~senderid~dest
211071507000174250~2011-07-15 07:00:00~2011-07-15 07:00:17~DELIVRD~NULL~LM-mGage~919243201476
211071507000574530~2011-07-15  07:00:02~2011-07-15 07:00:19~DELIVRD~NULL~919243201476~919686555555
201107150701011690~2011-07-15 07:00:58~2011-07-15 07:01:18~DELIVRD~NULL~LM-MGAGE~919880015015
201107150701011700~2011-07-15 07:00:57~2011-07-15 07:01:23~DELIVRD~NULL~LM-MGAGE~919591996400
201107150706011202O~2011-07-15 07:06:00~2011-07-15 07:06:20~DELIVRD~NULL~LM-MGAGE~919591996400
201107150706011201O~2011-07-15 07:06:00~2011-07-15 07:06:20~DELIVRD~NULL~LM-MGAGE~919880015015
211071507100207100~2011-07-15 07:09:59~2011-07-15 07:10:16~DELIVRD~NULL~LM-mGage~919243201476
211071507100407560~2011-07-15   07:10:01~2011-07-15 07:10:18~DELIVRD~NULL~919243201476~919686555555
201107150711011237O~2011-07-15 07:10:58~2011-07-15 07:11:17~DELIVRD~NULL~LM-MGAGE~919880015015
201107150711011238O~2011-07-15 07:11:00~2011-07-15 07:11:27~DELIVRD~NULL~LM-MGAGE~919591996400
201107150716011271O~2011-07-15        07:15:59~2011-07-15 07:16:19~DELIVRD~NULL~LM-MGAGE~919880015015
```

17.3 Sample response on HTTP XML response:

In a XML API request each of the parameters is tagged, a sample of the same is provided below

```
<dlr><report mid="2111071508050395580" stime="2011-07-15 08:04:59" dtime="2011-07-15
08:05:16" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919972648090"/><report mid="2111071508050395650" stime="2011-07-15 08:04:59"
dtime="2011-07-15 08:05:17" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919704000100"/><report mid="2111071508050396140" stime="2011-07-15 08:04:59"
dtime="2011-07-15 08:05:17" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919900093039"/><report mid="2111071508050295160" stime="2011-07-15 08:04:59"
dtime="2011-07-15 08:05:16" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919845656000"/><report mid="2111071508050295340" stime="2011-07-15 08:04:59"
dtime="2011-07-15 08:05:16" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919704100100"/><report mid="2111071508050395510" stime="2011-07-15 08:04:59"
dtime="2011-07-15 08:05:17" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919740034444"/><report mid="2111071508050395640" stime="2011-07-15 08:04:59"
dtime="2011-07-15 08:05:16" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919650656262"/><report mid="2111071508050395610" stime="2011-07-15 08:04:59"
dtime="2011-07-15 08:05:16" status="DELIVRD" reason="NULL" senderid="919212355638"
dest="919771416994"/><dlr>
```

18 STATUS CODES AND REASON RECEIVED ON THE URL

CODE	REASON	DESCRIPTION
I) FINAL STATUS		
-01	New Error Code	This status displays when the error code provided by the subscribers terminating operator is not mapped with the existing status.
000	Sub-SMSC	The message is on SMSC queue i.e. the message has been inserted into the SMSC database but the status of the message is yet to be received.
001	DELIVRD	Successfully delivered.
002	FAILED	The message is permanently failed due to CallBarred, Error in Destination Number, Error in TeleService Provider etc.
004	NDNC_Failed	Failed Due to DND Registration
044	Promo_Blocked	This error is displayed when IUC charges are not active for your account.
005	Blacklist	Black-listed number. This list of numbers is provided by the customer and includes numbers of CEO etc. A message will never go to a number in the black-list.
006	Whitelist	This error is received when a Opt-In account sends messages to a non white listed number
007	Invalid Series	This error is shown when a number series in the correct number format is invalid.
008	Prepaid Reject	This error is shown when the messages are rejected due to insufficient credits.
009	Night_Expiry	These messages have not been processed because of legal restrictions of sending messages late hours.
099	Night_Purge	These are promotional messages submitted between 9PM and 12AM which are not processed on request.
031	EXP-AbsSubs	The message is rejected because there was no paging response, the IMSI record is marked detached, or the MS is subject to roaming restrictions.
032	EXP-MEM-EXCD	Message rejected because the MS doesn't have enough memory.
033	EXP-NW-FAIL	Message rejected due to network failure.

034	EXP-NW-TMOUT	Message rejected due to network or protocol failure.
035	EXP-SMS-TMOUT	Message rejected due to network or protocol failure.
036	EXP-HDST-BUSY	The message is rejected because of congestion encountered at the visited MSC.
037	EXP-MSG-Q-EXD	Message queue exceeded when there are too many messages for one number. SMSC can deliver only a particular number of messages to a mobile number. If there are more messages, they get this error code till the queue clears.