REST API v1.0.0

In order to use the Moonshado REST API, you must have a Moonshado API_KEY and CLIENT_ID (provide by Moonshado). All calls must be made over HTTP. We do suggest all calls be made over HTTPS for ensuring security. All API requests and message deliveries are received and made from api.moonshado.com.

All requests require API_KEY to be sent with the request.

moonshado

SEND MESSAGE

`POST /gateway/sms`

Sends a SMS message to device (MT).

HTTP Parameters

➡message[originating_address] – Required

➡message[device_address] – Required

➡message[body] – Required

➡message[reporting_key] – Optional

➡message[ttl] – Optional

➡message[shorten] – Optional

➡message[keyword] – Required only on shared shortcodes

➡api_key – Required

Originating_Address: Client shortcode in US that the message will be sent by. International SMS do not need a shortcode and can put any number as originating_address.

Device_Address: Phone number of the mobile device, All mobile numbers out side of US require + (plus) prefix to the (e.g. 11231231234, +445551231234).

Body: Message body (subject & body together must add up to 160 characters).

Reporting_Key: Allows you to enter an identifier that you can use to pair the delivery reports with the message (MT).

TTL: Used to specify absolute or relative time. (Default 2 hours)
Format:

➡yyyy-MM-dd hh-mm-ss TZONE

➡2009-01-31 23:24:24 EST

Shorten:

➡split: message will be split into multiple messages (default)

➡truncate: message will end at the maximum length

Keyword: Required only when using a shared shortcode

Example:

SMS to US Mobile Number

(POST):

> http://api.moonshado.com/gateway/sms?
> api_key=SR6NX6KA224839YC&message[originating_address]=12345&message
> [body]=test&message[device_address]=15055556471&message[keyword]
> =test&message[reporting_key]=12300127

SMS to UK Mobile Number

(POST):

> http://api.moonshado.com/gateway/sms?
> api_key=SR6NX6KA224839YC&message[originating_address]=
> %2B491771781208&message[body]=test&message[device_address]=
> %2B447589955555&message[reporting_key]=123001273

> Please note the url encoded + (plus) prefix to the device_address

Response:

```
<?xml version="1.0" encoding="UTF-8"?>
  <status>
    <code>10</code>
    <info>Success</info>
  </status>
```

Status Code and Definition

10 = Success

   20 = No message submitted

   21 = Invalid or no keyword submitted for this originating address

   22 = Invalid API Key

   24 = Invalid Shorten Type

   25 = Invalid Body

   26 = Invalid TTL

   27 = Invalid Originating Address

   28 = Invalid Device Address

   29 = Devices use invalid carrier(s)

   30 = Permission denied

   31 = Invalid request

   99 = Failure processing request

Receiving SMS Message from device (MO)

Before you can receive messages, you must work with Moonshado to complete the provisioning process and <u>setup a MO SMS POST URI</u>.

The mobile originate (MO) messages contain a set of parameters that originate from a subscriber-initiated message. The subscriber sends an SMS response or request from a mobile device to a Moonshado hosted short code.

Using HTTP POST to deliver MO messages, Moonshado servers relays the SMS Message MO parameters to your HTTP listener via HTTP embedded name/value pairs (MO SMS POST URI).

A MD5 HASH made up of CLIENT_ID and API_KEY is sent with the MO so the client can verify the MO is posted to client is by Moonshado.
Hash is made of CLIENT_ID + PIPE (|) + API_KEY.
example:
➡Client_ID = 123456
➡API_Key = SR6NX6KA224839YC
➡MD5 hashed as 123456|SR6NX6KA224839YC which results in 66b7bef118f8f2870b0a30d59736a008

The MO message parameters forwarded to your system by Moonshado servers are:

Parameter	Description
Carrier	Carrier from which the MO originated
Device_address	Mobile number of the wireless device
Inbound_address	A source address (shortcode)

Country	SMS origination country
Message	SMS message body
Hash	MD5 Hash of Client_Id|API_key
Timestamp	SMS received timestamp, <u>format</u>: mm/dd/yyyy hh:mm:ss PST

Example:

http://planetexpress.com/mo_sms_post_uri?carrier=verizon&device_address=15052834040&inbound_address=74532&country=US&message=testmessage&hash=66b7bef118f8f2870b0a30d59736a008&timestamp=07%2F02%2F2010%2007%3A19%3A11

Real Time Status and Delivery Reports

Status and Delivery reports are status updates on the progress or state of a message within the carrier network. To receive these status notifications, you must setup your REPORTING URI you must connect Moonshado to set this.

Using HTTP POST, Moonshado relays the status and delivery reports data points through HTTP in XML format to an HTTP listener that you implement and host.

Delivery reports only provide final status—success or failure. In contrast, Status reports also provide intermediate status, such as retry and carrier. Some carriers notify when an MT message is successfully delivered to the device. This is considered a final status, and the status is "Carrier Success".

As the message is delivered to the carrier, an HTTP Post is made to your systems.

Real time status and delivery, example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<report id="123001273">
  <carrier>verizon</carrier>
  <device_address>12022991894</device_address>
  <inbound_address>65653</inbound_address>
  <message_subid>0</message_subid>
  <status_code>18</status_code>
  <status_info>Carrier Success</status_info>
  <update_date>01/31/2009 22:17:29,799</update_date>
  <country>US</country>
</report>
```

Status and Delivery Parameters

Parameters	Description
Carrier	Carrier from which the status originated from.
Device_address	Mobile device receiving the SMS message
Message_subid	If the message is split because its longer then 160 characters, it will result in more then one status notification. E.g: first message will have message_subid of 0, second split message will have message_subid of 1 and so on.
Status_code	Numeric value of delivery status
Status_info	Detailed information of status_code
Update_date	A date time stamp of the report
Country	SMS origination country

Status Code and Definition

Code	Status	Definition
1	Phase1 Processing	Message being processed by Moonshado server
2	Internal Switch Error	There was an error routing the message with in Moonshado cloud network please resubmit the message.
3	Sent to Internal Switch	Routed with in the Moonshado network
4	Processing	
8	Message sent to Carrier	
9	Retrying	Retrying message due to past failures
10	Carrier Received	Carrier has accepted the message. In some cases, this is the last status.
11	Success	
12	Fail	Carrier returned a failure to deliver
14	Message Queuing Error	Failed to transfer request to processor
15	Retry Failed	Unable to retry
17	Split	Message split
18	Carrier Success	Carrier indicated successful delivery
19	Carrier Reported Error	Carrier Error
21	No answer	Carrier returned no answer
22	Line is Busy	Carrier returned line is busy
23	Carrier SIT	Carrier returned sit
25	Carrier Expired	Carrier returned expired
26	Carrier Deleted	Carrier returned deleted
27	Carrier Undeliverable	Carrier returned undeliverable

28	Carrier Unknown	Carrier returned unknown
29	Carrier Rejected	Carrier returned rejected

Request Delivery and Status Reports

Moonshado allows you to query delivery/status reports for any MT (sent SMS Message) with a reporting key.

Single MT Request
GET /gateway/reports
HTTP Parameters:
➡reporting_keys – Required
➡api_key – Required

Reporting_key: reporting_key that was submitted with the send message (MT).
Can query multiple separated by a comma.
Example:

http://api.moonshado.com/gateway/reports?
reporting_keys=123001273,123001272&api_key=SR6NX6KA224839YC

Response:
```
<?xml version="1.0" encoding="UTF-8"?>
  <reports>
    <mt id="123001272">
      <report>
        <carrier>verizon</carrier>
        <device_address>13132991894</device_address>
        <inbound_address>66337</inbound_address>
        <message_subid>2</message_subid>
        <status_code>18</status_code>
        <status_info>Carrier Success</status_info>
        <update_date>01/04/2009 22:17:29,799</update_date>
        <country>US</country>
      </report>
      <report>
        <carrier>verizon</carrier>
```

```xml
        <device_address>13132991894</device_address>
        <inbound_address>66337</inbound_address>
        <message_subid>2</message_subid>
        <status_code>18</status_code>
        <status_info>Carrier Success</status_info>
        <update_date>01/04/2009 22:17:29,799</update_date>
        <country>US</country>
      </report>
    </mt>
    <mt id="123001273">
     <report>
        <carrier>verizon</carrier>
        <device_address>13132991894</device_address>
        <inbound_address>66337</inbound_address>
        <message_subid>2</message_subid>
        <status_code>18</status_code>
        <status_info>Carrier Success</status_info>
        <update_date>01/14/2009 22:17:29,799</update_date>
        <country>US</country>
      </report>
      <report>
        <carrier>verizon</carrier>
        <device_address>13132991894</device_address>
        <inbound_address>66337</inbound_address>
        <message_subid>2</message_subid>
        <status_code>18</status_code>
        <status_info>Carrier Success</status_info>
        <update_date>01/14/2009 22:17:29,799</update_date>
        <country>US</country>
      </report>
    </mt>
  </reports>
```

Support is available, at all times.
Email: support@moonshado.com