



Enterprise Version 1 HTTP API (Application Programming Interface) MT SMS

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| Updates and Changes | |
|---------------------|--------------------------|
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1. OVERVIEW

This document describes the API for the Phanerus E1 messaging platform. Providing access for developers to the messaging interface with a powerful set of tools to help facilitate deployment of messaging based applications. The platform can be accessed by the following ways:

- HTTP submitted using GET or POST.
- SMPP which enables message transfer via a 7bit PDU.
- SMTP which enables email applications to send email that gets delivered as SMS.

Only the HTTP access method is covered in this documentation. However, all the access methods implement the same properties as will be described in detail within this document.

2. AUTHENTICATION

In order to begin delivering messages, Phanerus will need to authenticate to ensure it is coming from a valid customer. The following parameters are used by us to authenticate third parties:

Your login name: username

Your password: password

The username and password has to be part of each message submission request. Also, an authentication check can be performed by sending a POST or GET using request type authenticate, for which the following string will have to be used.

| Parameter | Description |
|----------------|----------------------------------|
| Server name | sms.Phanerus.com.au |
| API version | API-E1 |
| Access method | http |
| Request type | authenticate |
| Authentication | Customer's username and password |

Example:

<http://sms.Phanerus.com.au/API-E1/http/authenticate/?username=yourlogin&password=yourpassword>

| Parameter | Return Values |
|-----------------------------|---------------|
| Valid username & password | True |
| Invalid username & password | False |

3. SMS CREDITS

The SMS credits balance for an account can be retrieved using the following parameters

| Parameter | Description |
|----------------|----------------------------------|
| Server name | sms.phanerus.com.au |
| API version | API-E1 |
| Access method | http |
| Request type | smscredits |
| Authentication | Customer's username and password |

Example:

<http://sms.phanerus.com.au/API-E1/http/smscredits/?username=yourlogin&password=yourpassword>

4. MESSAGING

Phanerus Technologies uses various SMSC connections which are set automatically at message send time based on message routing requirements. About seven different types of messages are supported text message, multiple recipient text messaging, two way message, concatenated message, WAP message, silent message, binary message, unicode message and schedule message.

4.1 TEXT MESSAGE

| Parameter | Description |
|----------------|----------------------------------|
| Request type | Textmessage |
| Authentication | Customer's username and password |
| Message | The text content of the message |

| | |
|-------------|---------------------------------|
| Mobile | The recipient address |
| Sender | The originating name or address |
| Countrycode | Destination Country code |

Example:

[http://sms.phanerus.com.au/API-E1/http/textmessage/?username=yourlogin&password=yourpassword
&message=This+is+a+test+message&mobile=6141500001&sender=phanerus&countrycode=61](http://sms.phanerus.com.au/API-E1/http/textmessage/?username=yourlogin&password=yourpassword&message=This+is+a+test+message&mobile=6141500001&sender=phanerus&countrycode=61)

4.2 MULTIPLE RECIPIENT TEXT MESSAGE

| Parameter | Description |
|----------------|---|
| Request type | Textmessage |
| Authentication | Customer's username and password |
| Message | The text content of the message |
| Mobile | A comma separated recipient address list |
| Sender | The originating name or address |
| Countrycode | Destination Country code |

Example:

[http://sms.phanerus.com.au/API-E1/http/textmessage/?username=yourlogin&password=yourpassword
&message=This+is+a+multiple+recipient+message&mobile=6141500001,
6141500002&sender=phanerus&countrycode=61](http://sms.phanerus.com.au/API-E1/http/textmessage/?username=yourlogin&password=yourpassword&message=This+is+a+multiple+recipient+message&mobile=6141500001,6141500002&sender=phanerus&countrycode=61)

4.3 TWO WAY MESSAGE

Two way messaging delivers the SMS to the destination handset with a reply to virtual mobile number message appended to the message text. An allowance of 26 characters should be created for this additional content. If the subscriber replies to this message (i.e to the virtual mobile number) the Phanerus E1 platform would forward the MO reply to the reply path - email address – provided.

The MO reply forwarded to the reply path will contain a session identifier e.g. sessionid=6048y2384y63596494u6, which will be used to track the conversation and associate the MO reply with the MT message originally submitted to the Phanerus E1 platform. This session tracked 2 way messaging is enabled by the presence of the session id parameter.

| Parameter | Description |
|-------------------|----------------------------------|
| Request type | twowaymessage |
| Authentication | Customer's username and password |
| Message | The text content of the message |
| Mobile | The recipient address(s) |
| Sender | The originating name or address |
| Countrycode | Destination Country code |
| Reply path | Your email address |
| Session id | Stored session identifier |

Example :

```
http://sms.phanerus.com.au/API-E1/http/twowaymessage
/?username=yourlogin&password=yourpassword
&message=This+is+a+two+way+message&mobile=61415000001,
61415000002&sender=phanerus&countrycode=61&
sessionid=6048y2384y63596494u694&replypath=yourname@email.com
```

4.4 SCHEDULE MESSAGE

Scheduled the message(s) notify the system that the message should be delivered at a future date for a specific time zone. The expected format is YYYY-MM-DD HH:MM:SS where:

- YYYY is the year
- MM is the month
- DD is the day of the month
- HH is the hour of the day
- MM is the minute of the hour
- SS is the seconds

Set the time-zone you wish the “timezone” parameter. The time-zone must be specified in the TZ format, e.g. “Australia/Sydney”. You can view a list of time zone formats here:

http://en.wikipedia.org/wiki/List_of_tz_database_time_zones.

| Parameter | Description |
|----------------------|--|
| Request type | Schedulemessage |
| Authentication | Customer’s username and password |
| Message | The text content of the message |
| Mobile | The recipient address(s) |
| Sender | The originating name or address |
| Countrycode | Destination Country code |
| Delivery time | Time in YYYY-MM-DD HH:MM:SS format |
| Timezone | Timezone for message delivery e.g. Australia/Sydney |

Example:

```
http://sms.phanerus.com.au/API-E1/http/twowaymessage
/?username=yourlogin&password=yourpassword
&message=This+is+a+scheduled+message&mobile=61415000001,61415000002&
sender=phanerus&countrycode=61&deliverytime=2014-06-30%2016:49:04&timezone=Australia/
Sydney
```

4.5 CONCATENATED MESSAGE

Messages that exceed 160 characters will automatically be sent as two or three page messages, with 140 characters as the additional page length size.

4.6 WAP MESSAGE

The WAP Push message requires the URL parameter, this is used by the WAP Service Indicator to begin download of software, JPEG, MP3 or any other form of media which you intend to transfer.

NOTE: Do not type url after pre pending HTTP or WWW to it , enter url direct e.g. url=wap.yourwebsite.com/datafiles/32412315132.jpg and not url=http://wap.

yourwebsite.com/datafiles/32412315132.jpg. The latter would not be allowed on the Phanerus E1 platform.

The presence of the url parameter informs the system that you are sending a wappush message.

| Parameter | Description |
|----------------|---|
| Request type | wapmessage |
| Authentication | Customer's username and password |
| Message | The text content of the message |
| Mobile | A comma separated recipient address list |
| Sender | The originating name or address |
| Countrycode | Destination Country code |
| url | wap.yourwebsite.com/datafiles/32412315132.jpg |

Example:

```
http://sms.phanerus.com.au/API-
E1/http/textmessage/?username=yourlogin&password=yourpassword
&message=This+is+a+wap+message&mobile=61415000001,
61415000002&sender=phanerus&countrycode=61&url=wap.yourwebsite.com/datafiles/32412315132
.jpg
```

4.7 SILENT MESSAGE

The silent message requires the silentmessage request type.

| Parameter | Description |
|----------------|--|
| Request type | Silentmessage |
| Authentication | Customer's username and password |
| Message | The text content of the message |
| Mobile | A comma separated recipient address list |
| Sender | The originating name or address |
| Countrycode | Destination Country code |

Example :

```
http://sms.phanerus.com.au/API-
E1/http/silentmessage/?username=yourlogin&password=yourpassword
&message=This+is+a+silent+message&mobile=61415000001,
61415000002&sender=phanerus&countrycode=61
```

4.8 UNICODE MESSAGE

The unicode message requires the unicodemessage request type, some writings done in unicode format are Arabic, Armenian, Bengali, Bopomofo, Cyrillic, Devanagari, Georgian, Greek and Coptic, Gujarati, Gurmukhi, Hangul, Hebrew, Hiragana, Kannada, Katakana, Lao, Latin, Malayalam, Oriya, Tamil, Telugu, Thai, and Tibetan.

| Parameter | Description |
|----------------|--|
| Request type | Unicodemessage |
| Authentication | Customer's username and password |
| Message | The message in unicode format e.g. Arabic or Hebrew |
| Mobile | A comma separated recipient address list |
| Sender | The originating name or address |
| Countrycode | Destination Country code |

Example:

```
http://sms.phanerus.com.au/API-
E1/http/unicodemessage/?username=yourlogin&password=yourpassword&message=%D8%AC%D9%8
7%D8%A7%D8%AF%20%D8%AF%D9%8A%D8%A8&mobile=61415000001,
61415000002&sender=phanerus&countrycode=61
```

4.9 BINARY MESSAGE

The binary message requires the binarymessage request type.

| Parameter | Description |
|----------------|---|
| Request type | Binarymessage |
| Authentication | Customer's username and password |
| Message | The message encoded in binary format |
| Mobile | A comma separated recipient address list |
| Sender | The originating name or address |
| Countrycode | Destination Country code |

Example:

```
http://sms.phanerus.com.au/API-
E1/http/unicodemessage/?username=yourlogin&password=yourpassword&message=5468697320697
32074686520646174612C20696E2074686520636C6561722E&mobile=61415000001,
61415000002&sender=phanerus&countrycode=61
```

5. RESPONSES

The response values indicate the status of network interaction between the Phanerus E1 platform and the customer's application.

NOTE: Successful messages return 1201|Batch_number|Date time e.g. 1201|Z5XUTDYQG1HCXDSWE1W0|2014-07-01 13:03:10. The batch number along with the date time is required for retrieving delivery reports after data payload has been submitted to the respective networks.

Following is the list of values return by the server on submission of sms via HTTP.

| Return | Code Description |
|-----------------------------|--------------------------------|
| 1200 | Request Timeout |
| 1201 Batch_number Date time | Message Sent Successfully |
| 1202 | Invalid IP |
| 1203 | Incorrect Username or Password |
| 1204 | Insufficient Credits |
| 1205 | Invalid url Submission |
| 1206 | Invalid Mobile |
| 1207 | Invalid Sender Id |
| 1208 | Invalid Message length |
| 1209 | Message Empty |

Note: For safe delivery using the HTTP protocol we advise that contact numbers are offloaded in batches of 100. Developer could create a script to loop through the contact base until all message is offloaded to all contacts.

6. MESSAGE PARAMETERS IN DETAIL

Domain Name (domain name)

User's account details on PHANERUS.COM.AU

Username (Username)

The username parameter value is passed for validation purposes. The username is the same as that which is supplied by the client while registering on PHANERUS.COM.AU. The username (username) parameter is the email address with which you signed up on PHANERUS.COM.AU, with no spaces.

Password Parameter (password)

The password parameter value is also passed in combination with the username for validation purposes. The password is created by the client along with the username when he registers with PHANERUS.COM.AU for sending SMS messages through the Gateway.

Mobile Number Parameter (mobile)

The mobile number parameter refers to the destination mobile number to which the message is to be sent.

However, the mobile number is required to be in a specific format. Any error in this parameter value would lead to non-delivery of the message.

The mobile number should contain only numbers. It must also include the country code at the start beginning.

It should not contain any symbols (+) or zero (0) etc. and it must be a valid mobile Number

Message Parameter (message)

The message parameter refers to the actual message that is to be sent to the destination mobile (mobile). The message parameter may consist of up to 160 characters belonging to the following set:

- A...Z a...z 0...9
- Blank space
- The meta characters \ (line feed)

Due to restrictions in the HTTP protocol format, the following special characters must be encoded in order not to collide with reserved HTTP characters:

Character must be encoded as:

| Character | Hexa-decimal Encoded String |
|-----------------------------|-----------------------------|
| Dollar ("\$") | %24 |
| Ampersand ("&") | %26 |
| Plus ("+") | %2B |
| Comma (",") | %2C |
| Forward slash/Virgule ("/") | %2F |
| Colon (":") | %3D |
| Semi-colon (";") | %3B |
| Equals ("=") | %3D |
| Question mark ("?") | %3F |
| 'At' symbol ("@") | %40 |
| Space | %20 |
| Quotation marks | %22 |
| 'Less Than' symbol ("<") | %3C |
| 'Greater Than' symbol (">") | %3E |
| 'Pound' character ("#") | %23 |
| Percent character ("%") | %25 |
| Left Curly Brace ("{") | %7B |
| Right Curly Brace ("}") | %7D |
| Vertical Bar/Pipe (" ") | %7C |
| Backslash ("\") | %5C |
| Caret ("^") | %5E |
| Tilde ("~") | %7E |
| Left Square Bracket ("[") | %5B |
| Right Square Bracket ("]") | %5D |
| Grave Accent ("`") | %60 |

For simple text messages, the message can contain numbers, alphabets, spaces and certain special characters.

Sender Id (sender)

The sender parameter refers to the message dispatcher or the From clause (THE SENDER), from whom the message is sent.

The sender can be an eleven character alphanumeric string. The sender Id is an optional clause. In case the sender Id is not specified, PHANERUS.COM.AU is sent as the sender to the destination mobile.

Sender ID can only be made up of alphabets & digits. It cannot contain any special characters such as (-,+) etc.

7. DELIVERY REPORTS

Delivery reports are gathered using the “Batch Number” along with the “Date time” when the SMS was received by the Phanerus E1 platform. This info (Batch Number and Date time) was received as a response along with the “1201 response code” after data payload was sent successfully.

| Parameter | Description |
|-----------------|--|
| Request type | delivery report |
| Authentication | Customer’s username and password |
| marker | The Batch Number |
| datetime | Date time when message was received by the Phanerus E1 platform |

Delivery reports are retrievable only for 48 hours after message is received by the Phanerus E1 platform, after 48 hours DLR must be downloaded directly from the Phanerus SMS web interface.

Example:

<http://sms.phanerus.com.au/API-E1/http/dlr/?username=yourlogin&password=yourpassword&marker=3SEAPRA4OII1D18ZR2S5&datetime=2014-06-61%2008:06:10>