



# Enterprise Version 1 SMTP API ( Application Programming Interface ) MT SMS

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## TABLE OF CONTENTS

1. Overview .....	3
2. Authentication .....	3
3. SMS Credits .....	4
4. Messaging .....	4
4.1 Text Messaging.....	4
4.2 Multiple Recipient Text Message .....	5
4.3 Two way Message .....	5
4.4 Schedule Message.....	6
4.5 Concatenated Message .....	7
4.6 Wap Message .....	7
4.7 Silent Message .....	8
4.8 Unicode Message .....	9
4.9 Binary Message .....	9
5. Responses .....	10
6. Message Parameters in Detail .....	11
7. Delivery Reports .....	13

## 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:

- SMTP which enables email applications to send email that gets delivered as SMS.

Only the SMTP 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:

Email Address: username

Email Subject: password

The username and password has to be part of each email submission. Also, the authentication check is be performed by sending the mail using your account id as sender, the account password as subject, along with the words **Request:authenticate** as the first line and only content in the message body.

Parameter	Description
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	<b>Request:authenticate</b>

### Return values:

Parameter	Return Values
Response Mail Subject	Authenticate Response
Response Mail Body	True   False

### 3. SMS CREDITS

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

Parameter	Description
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	<b>Request: smscredits</b>

Return values:

Parameter	Return Values
Response Mail Subject	SMSCredits Response
Response Mail Body	Account balance

### 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
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	<b>Request: textmessage</b>
	<b>Sender: The originating name or address</b>
	<b>Message: The text content of the message</b>
	<b>Mobile: The recipient address</b>
	<b>CountryCode: Destination Country code</b>

**Return values:**

Parameter	Return Values
Response Mail Subject	TextMessage Response
Response Mail Body	1201 Batch_number Date time

**4.2 MULTIPLE RECIPIENT TEXT MESSAGE**

Parameter	Description
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request: textmessage
	Sender: The originating name or address
	Message: The text content of the message
	<b>Mobile: A comma separated recipient address list</b>
	CountryCode: Destination Country code

**Return values:**

Parameter	Return Values
Response Mail Subject	TextMessage Response
Response Mail Body	1201 Batch_number Date time

**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 sessionid parameter.

Parameter	Description
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request: twowaymessage
	Sender: The originating name or address
	Message: The text content of the message
	Mobile: A comma separated recipient address list
	CountryCode:Destination Country code
	<b>ReplyPath:Your email address</b>
	<b>SessionId:Stored session identifier</b>

#### Return values:

Parameter	Return Values
Response Mail Subject	TwowayMessage Response
Response Mail Body	1201   Batch_number   Date time

#### 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. “Africa/Johannesburg”. You can view a list of time zone formats here:

[http://en.wikipedia.org/wiki/List\\_of\\_tz\\_database\\_time\\_zones](http://en.wikipedia.org/wiki/List_of_tz_database_time_zones).

Parameter	Description
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request: Schedulemessage
	Sender: The originating name or address
	Message: The text content of the message
	Mobile: A comma separated recipient address list
	CountryCode:Destination Country code
	<b>DateTime:Time in YYYY-MM-DD HH:MM:SS format</b>
	<b>TimeZone:Timezone for message delivery e.g. Africa/Lagos</b>

#### Return values:

Parameter	Return Values
Response Mail Subject	ScheduleMessage Response
Response Mail Body	1201 Batch_number Date time

#### 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
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request: Wapmessage
	Sender: The originating name or address
	Message: The text content of the message
	Mobile: A comma separated recipient address list
	CountryCode:Destination Country code
	<b>URL: wap.yourwebsite.com/datafiles/32412315132.jpg</b>

#### Return values:

Parameter	Return Values
Response Mail Subject	WapMessage Response
Response Mail Body	1201   Batch_number   Date time

#### 4.7 SILENT MESSAGE

The silent message requires the silentmessage request type.

Parameter	Description
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request: Silentmessage
	Sender: The originating name or address
	<b>Message: The text content of the message</b>
	Mobile: A comma separated recipient address list
	CountryCode:Destination Country code



#### Return values:

Parameter	Return Values
Response Mail Subject	SilentMessage Response
Response Mail Body	1201 Batch_number Date time

#### 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
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request: Unicodemessage
	Sender: The originating name or address
	Message: <b>The message in unicode format e.g. Arabic or Hebrew</b>
	Mobile: A comma separated recipient address list
	CountryCode:Destination Country code

#### Return values:

Parameter	Return Values
Response Mail Subject	UnicodeMessage Response
Response Mail Body	1201 Batch_number Date time

## 4.9 BINARY MESSAGE

The binary message requires the binarymessage request type.

Parameter	Description
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request: Binarymessage
	Sender: The originating name or address
	Message: <b>The message encoded in binary format</b>
	Mobile: A comma separated recipient address list
	CountryCode:Destination Country code

### Return values:

Parameter	Return Values
Response Mail Subject	BinaryMessage Response
Response Mail Body	1201 Batch_number Date time

## 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 SMTP.



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

## 6. MESSAGE PARAMETERS IN DETAIL

### Domain Name (domain name)

User's account details on PHANERUS.COM

### 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. The username (username) parameter is the email address with which you signed up on PHANERUS.COM, 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 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 SMTP protocol format, the following special characters must be encoded in order not to collide with reserved 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 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
Destination Address	sms.send@phanerus.com
Sender Email Address	username
Email Subject	password
<b>Email Body</b>	Request:Deliveryreport
	<b>Marker:The Batch Number</b>
	<b>DeliveryTime:Date time when message was received by the Phanerus E1 platform</b>

### Return values:

Parameter	Return Values
Response Mail Subject	BinaryMessage Response
Response Mail Body	1201   Batch _ number   Date time

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