

KALASMS messaging system

HTTP Application Programmable Interface
Description

Table of Contents

1	Introduction	3
2	Procedures.....	3
2.1	Users.....	3
2.2	Resellers.....	4
3	Specifications.....	5
3.1	sendsms	5
3.2	sendbulk.....	5
3.3	displaycredit.....	7
3.4	delreport.....	7
3.5	getmessagedelreport.....	8
3.6	displaylist.....	8
3.7	createlist.....	9
3.8	deletelist.....	9
3.9	addcontacttolist	10
3.10	changesenderid.....	10
3.11	defaultsenderid	11
3.12	rssendsms.....	11
3.13	checkprice.....	13
3.14	txcredits.....	13
4	Parameters	14
5	Message coding	16

1 Introduction

This document is a description of the Kalasms HTTP API (Application Programmable interface) specification, in terms of available functions, parameters, and special conditions.

The interface can be used by any Kalasms user, but special functions (especially the ones related to Dynamic SenderID) can only be used by the users designated as "resellers".

All functions use the HTTP GET method.

To be qualified as a reseller, you need to purchase 1000 Kalasms units. For more details, please contact sales@kalasms.com

Note that all functions and their related parameters are in lower case.

2 Procedures

2.1 Users

Users can send messages from either their registered mobile number (in international format, no leading zeros or a "+" sign), or from the senderID (or Nickname) that is activated on their account. Available functions are:

- 1- **sendsms**: for sending a single message to a mobile number
- 2- **sendbulk**: for sending a BULK message to a predefined "list" or "group" of contacts.
- 3- **displaycredit**: for retrieving the number of units in the user's account.
- 4- **delreport**: for retrieving the reports of the last 10 messages sent by the user
- 5- **getmessagedelreport**: for retrieving the delivery report specific to a messageID.
- 6- **displaylist**: for retrieving the lists' names stored in the account of a user
- 7- **createlist**: for creating a "list" of contacts
- 8- **deletelist**: for deleting a "list" contacts

- 9- **addcontacttolist:** for adding a mobile number to a specific "list"
- 10- **changesenderid:** for changing the "Nickname" of the user
- 11- **defaultsenderid:** for setting the default SenderID (Nickname or mobile number) that the messages will be sent from.
- 12- **rssendsms:** for sending a single SMS using a dynamic senderid (valid only for resellers), or single message to multiple destinations (up to 50 destination at a time). Response is in XML format.
- 13- **checkprice:** for checking the price of a message to a certain destination number before sending it. The function returns the price in Euros, and number of units. It also returns the network name of the destination number. The function does not send the message.
- 14- **Txcredits:** for transferring units between two accounts.

The procedure for sending an SMS is as follows:

- 1- The user need to set first the "Default SenderID" , to his/her mobile number of Nickname, using a special function "defaultsenderid". This function needs to be used once only (not before every message). If this function is not used, then the default SenderID already set on the account will be active.
- 2- For sending a single message, the user sends the message to the destination, using the function "sendsms".
- 3- For sending a BULK message, the users sends the message to a specific "list" or "group", using the function "sendbulk".

2.2 Resellers

The only difference between a normal users and a reseller, is that the latter can send messages from any SenderID , using the function:

- 1- **rssendsms:** for sending a message to one or more mobile numbers, by specifying the "SenderID" in the function, even if the user does not have that SenderID activated on his/her account.
- 2- **All other functions available for the normal users, are also available for resellers**

3 Specifications

The API functions are described as follows. The parameters are explained in section 4 "Parameter" of this document

3.1 sendsms

3.1.1 Format

`http://www.kalasms.com/core/smsdo.aspx?opt=sendsms&user=username&pwd=password&destination=mobile number&message=message text&uni=0/1`

3.1.2 Example

`http://www.kalasms.com/core/smsdo.aspx?opt=sendsms&user=353879878978&pwd=123456&destination=353879878978&message=helloworld&uni=0`

3.1.3 Repsonse:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidNumber: if the destination number is invalid or not found in the NDC database.
- InvalidUser: if the username or password is incorrect. Message is not sent
- xxxxxx (integer): the MessageID of the message sent. This messageID can be used later for querying the status of the message.
- NoCredit: if the user is out of credits. Message is not sent.

3.2 sendbulk

3.2.1 format

`http://www.kalasms.com/core/smsdo.aspx?opt=sendbulk&user=username&pwd=password&list=listname&message=message text&uni=0/1&senderid=companyX`

senderid could be any string of maximum 11 characters, or 14 digits

N.B. if the user is not a reseller, the senderid field should be omitted, and the default senderid will apply to the message. The format will be as follows:

<http://www.kalasms.com/core/smsdo.aspx?opt=sendbulk&user=username&pwd=password&list=listname&message=message text&uni=0/1>

3.2.2 example

- sending from a Dynamic Alphanumeric senderid (valid only for resellers):

<http://www.kalasms.com/core/smsdo.aspx?opt=sendbulk&user=353879878978&pwd=123456&list=customers&message=please note that the summer collection has arrived in store&uni=0&senderid=CompanyX>

- sending from a Dynamic numeric senderid (valid only for resellers):

<http://www.kalasms.com/core/smsdo.aspx?opt=sendbulk&user=353879878978&pwd=123456&list=customers&message=please note that the summer collection has arrived in store&uni=0&senderid=35387998998990>

- sending from a default senderid (valid for normal users):

<http://www.kalasms.com/core/smsdo.aspx?opt=sendbulk&user=353879878978&pwd=123456&list=customers&message=please note that the summer collection has arrived in store&uni=0>

3.2.3 Repsonse:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- sent: if the message is sent to the list. No messageID is received since the list might contain 10,000 destination numbers. (For getting the messageID, please use the function rssendsms with multiple destinations)
- NoList : if there list name does not exist.
- Err:SenderIdMaxSizeExceeded : if the SenderID exceeds 11 characters (Alphanumeric), or 14 digits (numeric).
- NoCredits: if the user is out of credits. Message is not sent.

3.3 displaycredit

3.3.1 Format

<http://www.kalasms.com/core/smsdo.aspx?opt=displaycredit&user=mobile number&pwd=password>

3.3.2 Example:

<http://www.kalasms.com/core/smsdo.aspx?opt=displaycredit&user=353879878978&pwd=123456>

3.3.3 Repsonse:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent

3.4 delreport

3.4.1 Format

<http://www.kalasms.com/core/smsdo.aspx?opt=delreport&user=mobile number&pwd=password>

3.4.2 Example:

<http://www.kalasms.com/core/smsdo.aspx?opt=delreport&user=353879878978&pwd=123456>

3.4.3 Repsonse:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent

- Destination number STATUS: the last 10 destination numbers with their message status, separated by a comma.

3.5 getmessagedelreport

3.5.1 Format

<http://www.kalasms.com/core/smsdo.aspx?opt=getmessagedelreport&user=mobile number&pwd=password&messageid=messageid>

3.5.2 Example

<http://www.kalasms.com/core/smsdo.aspx?opt=getmessagedelreport&user=353879878978&pwd=123456&messageid=66802>

3.5.3 Repsonse:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- STATUS,DATE TIME: The status of the message, followed by a comma, followed by the date and time of the delivery report.

3.6 displaylist

3.6.1 Format

<http://www.kalasms.com/core/smsdo.aspx?opt=displaylist&user=mobile number&pwd=password>

3.6.2 Example

<http://www.kalasms.com/core/smsdo.aspx?opt=displaylist&user=353879878978r&pwd=123456>

3.6.3 Response:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- List "listname" Created: if the list is created successfully.

3.7 createlist

3.7.1 format

<http://www.kalasms.com/core/smsdo.aspx?opt=createlist&user=mobile number&pwd=password&list=listname>

3.7.2 example

<http://www.kalasms.com/core/smsdo.aspx?opt=createlist&user=353879878978&pwd=123456&list=customers>

3.7.3 Response:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- List "listname" Created: if the list is created successfully.

3.8 deletelist

3.8.1 format

<http://www.kalasms.com/core/smsdo.aspx?opt=deletelist&user=mobile number&pwd=password&list=listname>

3.8.2 example

<http://www.kalasms.com/core/smsdo.aspx?opt=deletelist&user=353879878978&pwd=123456&lis=customers>

3.8.3 Response:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- List "listname" Deleted: if the list is deleted successfully.

3.9 addcontacttolist

3.9.1 format

<http://www.kalasms.com/core/smsdo.aspx?opt=addcontacttolist&user=mobile number&pwd=password&list=listname&contact=mobile number>

3.9.2 example

<http://www.kalasms.com/core/smsdo.aspx?opt=addcontacttolist&user=353879878978&pwd=123456&list=customers&contact=353879556575>

3.9.3 Response:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- "Destination number" Contact already in List: if the contact is already included in the list
- "Destination number" Added to List "listname": if the addition of the destination number was successfully performed to the list "listname"
- Unexpected Error: if the list does not exist.

3.10 changesenderid

3.10.1 format

<http://www.kalasms.com/core/smsdo.aspx?opt=changesenderid&user=mobile number&pwd=password&senderid=newsenderid>

N.B. this function is usually used by normal customers only, since the "resellers" can use Dynamic senderID in the rsendsms function.

Normal users can change their senderid once every recharge, i.e. they will have the possibility to use this function after they recharge their account, and at any time.

3.10.2 example

<http://www.kalasms.com/core/smsdo.aspx?opt=changesenderid&user=353879878978&pwd=123456&senderid=amigo>

3.10.3 Response:

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- Success: if the senderID is changed successfully.
- Error: if the SenderID exceeds the limit

3.11 defaultsenderid

3.11.1 format

<http://www.kalasms.com/core/smsdo.aspx?opt=defaultsenderid&user=mobile number&pwd=password&choice=0/1>

3.11.2 example

<http://www.kalasms.com/core/smsdo.aspx?opt=defaultsenderid&user=353879878978&pwd=123456&choice=0>

The function in the above example sets the default senderid as the mobile number (choice=0).

3.12 rssendsms

a) Sending a single SMS to one destination:

3.12.1 format

<http://www.kalasms.com/core/smsdo.aspx?opt=rssendsms&user=username&pwd=password&destination=mobile number&message=message text&uni=0/1&senderid=senderid&source=source>

3.12.2 example

<http://www.kalasms.com/core/smsdo.aspx?opt=rssendsms&user=353879878978&pwd=123456&destination=35387956575&message=hellotext&uni=0&senderid=senderid&source=1>

b) Sending an SMS to one more than one destination (up to 50):

3.12.3 format

```
http://www.kalasms.com/core/smsdo.aspx?opt=rssendsms&user=username&pwd=
=password&destination=destination1|destination2|destination3|...|
destination50&message=messagetext&uni=0/1&senderid=senderid&source=sourc
e
```

3.12.4 example

```
http://www.kalasms.com/core/smsdo.aspx?opt=rssendsms&user=353879878978
&pwd=123456&destination=353879556575|46343984833|96248735733|353853
546736&message=hello text&uni=0&senderid=senderid&source=1
```

3.12.5 response

multiple destinations response format:

The response to this function is in XML format (only when more than one destination number are submitted). The response format is as follows:

```
<messages>
<message id="messageid" dest="destination1" cost="0.018"/> (means:
successful message)

<message id="0" dest="destination2" cost="0"/> (means: Invalid destination
)

<message id="1" dest="destination3" cost="0"/> (means: User is out of
credits)

</messages>
```

Response parameters:

Common Responses:

Err:SenderIdEmpty: In case the senderId is empty.

Err:UserNotValidated: User is not a registered user with Kalasms and/or invalid password.

Err:SenderIdMaxSizeExceeded: SenderId characters exceeds the limit. Max 14 digits for numeric and 11 for alphanumeric.

Single Destination Responses (parameter: message id):

MessageID: a unique id for the message. The MessageID is an integer and can be used to retrieve the message status at any time.

- 1: User is out of credits. Message is not sent.
- 0: Destination number is either an invalid number or not in our NDC database.

3.13 checkprice

3.13.1 format

<http://www.kalasms.com/Core/SMSdo.aspx?opt=checkprice&user=username&pwd=password&destination=mobile number>

3.13.2 example

<http://www.kalasms.com/Core/SMSdo.aspx?opt=checkprice&user=354879878978&pwd=123456&destination=353879556575>

3.13.3 response

- Unknow Command: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- InvalidDestination: if the number is not valid or not found in the NDC database.
- PriceInEuros;KalaCredits;DestinationCountry;DestinationNetwork: if the destination is valid, the price is given in Euros and number of units (credits), and stating the country and the mobile operator.
- Error

3.14 txcredits

3.14.1 format

<http://www.kalasms.com/core/SMSdo.aspx?opt=txcredits&user=username&pwd=password&amount=number of units to transfer&destination=mobile number>

3.14.2 example

<http://www.kalasms.com/core/SMSdo.aspx?opt=txcredits&user=353879878978&pwd=123456&amount=400&destination=353879556575>

3.14.3 response

- Error: if the function is missing a parameter or is not following the correct syntax
- InvalidUser: if the username or password is incorrect. Message is not sent
- InvalidDestination: if the number is not valid or not found in the NDC database.
- Transfer Successful : if the transfer of units is successful.
- Err:Minimum allowed Credits for this Transfer is 30: if the number of units to be transferred was less than 30.
- Err:Destination is not a registered User: if the recipient number is not registered with kalasms.

4 Parameters

Name	Description	Remarks
opt	Operation name	
user	The username of the account, which is the mobile number that the user registered with	Mobile number in international format without leading zeros or the "+" sign. Example: 353879878978 353: the country code of Ireland 87: the network code of Vodafone in Ireland
pwd	password	
Message	The message to be sent	The message format could be a string, a HEX value, or a mixture of both. The string will be used for sending LATIN characters, but in special cases (see section 5 for more info) the HEX representation of some special characters should be submitted. In Unicode messages, the format will be in HEX only.
senderid	The SenderID of the	Maximum 11 characters in

	message. This is the name of the originator of the SMS that will be shown on the recipient's phone.	case of alphanumeric (a mixture of string characters and numeric digits) And A maximum of 14 digits in case of numeric.
destination	The mobile number of the recipient.	
uni	A field indicating if the message is formatted in Unicode or LATIN characters	0 = LATIN 1= Unicode
choice	The choice when setting the default SenderID (for normal users).	0 = mobile number 1= Nickname
source	The source of the request	1 (always)
listname	The name of the list or "group" that is stored on the user's web account, and which contains the contacts of the recipients (their mobile numbers)	
contact	The contact number to be added to a certain list	Mobile number in international format without leading zeros or the "+" sign. Example: 353879878978 353: the country code of Ireland 87: the network code of Vodafone in Ireland
messageid	The message ID of the message, received in a response to a function that sends an SMS.	Numerical value.

5 Message coding

The message body could be coded in Unicode or ASCII.

The Unicode is usually used for coding messages in non-Latin languages, like Arabic, Chinese, Japanese, Hebrew, Russian, and other languages.

However, there are some special characters that should be specifically coded in UTF-8 when sending **LATIN messages**. The user must replace those special characters with their UTF-8 representation listed below. (See example after the table)

SPECIAL CHARACTER	To be replaced with
BLANK	%20
!	%21
*	%2A
\	%27%27
(%28
)	%29
;	%3B
:	%3A
@	%40
&	%26
=	%3D
+	%2B
\$	%24
£	%C2%A3
,	%2C
/	%2F
?	%3F
%	%25
#	%23
[%5B
]	%5D
"	%22
-	%2D
.	%2E
<	%3C
>	%3E
^	%5E

SPECIAL CHARACTER	To be replaced with
—	%5F
`	%60
{	%7B
	%7C
}	%7D
~	%7E
À	%C3%80
Á	%C3%81
Â	%C3%82
Ã	%C3%83
Ä	%C3%84
Å	%C3%85
Æ	%C3%86
Ç	%C3%87
È	%C3%88
É	%C3%89
Ê	%C3%8A
Ë	%C3%8B
Ì	%C3%8C
Í	%C3%8D
Î	%C3%8E
Ï	%C3%8F
Ð	%C3%90
Ñ	%C3%91
Ò	%C3%92
Ó	%C3%93
Ô	%C3%94
Õ	%C3%95
Ö	%C3%96
Ø	%C3%98
Ù	%C3%99
Ú	%C3%9A
Û	%C3%9B
Ü	%C3%9C
Ý	%C3%9D
Þ	%C3%9E
ß	%C3%9F
à	%C3%A0

SPECIAL CHARACTER	To be replaced with
á	%C3%A1
â	%C3%A2
ã	%C3%A3
ä	%C3%A4
å	%C3%A5
æ	%C3%A6
ç	%C3%A7
è	%C3%A8
é	%C3%A9
ê	%C3%AA
ë	%C3%AB
ì	%C3%AC
í	%C3%AD
î	%C3%AE
ï	%C3%AF
ð	%C3%B0
ñ	%C3%B1
ò	%C3%B2
ó	%C3%B3
ô	%C3%B4
õ	%C3%B5
ö	%C3%B6
ø	%C3%B8
ù	%C3%B9
ú	%C3%BA
û	%C3%BB
ü	%C3%BC
ý	%C3%BD
þ	%C3%BE
ÿ	%C3%BF
¢	%C2%A2
µ	%C2%B5
§	%C2%A7
¿	%C2%BF
¥	%C2%A5
¤	%C2%A4
¡	%C2%A1
€	%E2%82%AC

SPECIAL CHARACTER	To be replaced with
¶	%C2%B6
°	%C2%B0
±	%C2%B1
®	%C2%AE
¡	%C2%A6
Γ	%CE%93
Δ	%CE%94
Θ	%CE%98
Λ	%CE%9B
Π	%CE%A0
Σ	%CE%A3
Φ	%CE%A6
Ψ	%CE%A8
Ω	%CE%A9
≡	%CE%9E
A (Alpha)	%CE%91
B (Beta)	%CE%92
E (Epsilon)	%CE%95
Z (Zeta)	%CE%96
H (Eta)	%CE%97
I (Iota)	%CE%99
K (Kappa)	%CE%9A
M (Mu)	%CE%9C
N (Nu)	%CE%9D
O (Omicron)	%CE%9F
P (Rho)	%CE%A1
T (Tau)	%CE%A4
Y (Upsilon)	%CE%A5
X (Chi)	%CE%A7

N.B. only GSM 7-bit encoded characters will be supported

(Check : http://sms.24cro.com/op_1_4_en.htm for the standard characters allowed in GSM)

Example:

If you want to send the message:

Dear customer, the new collection in store starts from 35\$, and you can benefit from 40% discount"

You need to **replace** the \$ with %24 and the % with %25, as follows:

[http://www.kalasms.com/core/smsdo.aspx?opt=sendsms&user=353879878978&pwd=123456&destination=353879878978&message=Dear customer, the new collection in store starts from 35%24, and you can benefit from 40%25 discount&uni=0](http://www.kalasms.com/core/smsdo.aspx?opt=sendsms&user=353879878978&pwd=123456&destination=353879878978&message=Dear%20customer,%20the%20new%20collection%20in%20store%20starts%20from%2035%24,%20and%20you%20can%20benefit%20from%2040%25%20discount&uni=0)