Documentation for LiveSMS (http)
Version 3.4

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1. Introduction

LiveSMS is a high quality SMS platform which enables you to integrate any of your applications with our SMS message sending and receiving system. The main advantage of our system is its simplicity of implementation. The SMS message can have your company name or any phone number that you owns. Every message sent in our system has its own unique id which allows you to receive its delivery confirmation.

1.1 How to start

To start using LiveSMS you need to register and create an account on our website:
URL address: **http://www.livesms.eu**

Registration is completely free. Your account is ready to use just after you register, but we recommend you to verify at least one sender name or number. Every message sent before validation has the "LiveSMS" as a default name.

1.2 IP filter for API interface

In order to improve interface API protection you may set list of IP addresses which will be whitelisted. You may do it in „SETTINGS" → „API" tab „IP addresses filter" in field **IP addresses filter.** It will be possible to send messages only from these whitelisted IP addresses (try of sending from other IPs will result in responding: ERROR:105). IP addresses should be separated by semicolon.

1.3 API password

API password after registering is the same as web panel password. You may change your API password in Settings → API. Changing your web panel password doesn't change API password.

2. Single SMS Message sending

URL links needed for connecting with our application:
-
http://panel.livesms.eu/sms.do

Messages should be sent as a HTTP GET or POST request to our system:

Parameter	Description
username *	Username used to identify a user in our system
password *	Password to Your account hashed with MD5
to	Mobile phone number of the recipient (i.e. 44123456789).
group	Name of the group from the phonebook to which message should be sent.
message *	The message text. Content of one message is normally 160 characters per single SMS or 70 in case of using at least one special character (polish characters are considered to be special characters). The maximal message is set to 918 normal characters or 402 if special chars are used and it is being sent as one block of 3 messages joined together and charged as three messages. Detailed information about special characters are given in chapter 9.
from	Name of the sender. As a default the sender name is set to „LiveSMS". Only verified names are being accepted (&from=active_name). Sender name may be set after loging into web panel on panel.livesms.eu in SETTINGS → SENDER NAMES.

encoding	This parameter describes the encoding of the message text. Windows-1250 is set as default. If another encoding is needed parameter encoding should have following value:
	-
	   or iso-8859-2 (latin2) – should be &encoding=iso-8859-2
	-
	   or utf-8 – should be &encoding=utf-8

flash	Sending a message in flash mode can be activated by setting this parameter to „1". Flash SMS are automatically presented on the mobile screen and have to be saved to be stored in inbox. (&flash=1)
test	When parameter *test* is set to „1" message won't be sent but response will be displayed, there is no charge for such test messages. (&test=1)
details	When *details* parameter is set to „1" more details in response will be displayed (message, length and sms count). (&details=1)
date	Date in UNIX timestamp (&date=1287734110) or in ISO 8601 (&date=2012-05-10T08:40:27+00:00) when message will be sent (&date=1287734110). Setting a past date will result in sending message instantly.
date_validate	Check if date if given in proper format. Returns ERROR:54 if not.
datacoding	This parameter allows to send **WAP PUSH** messages. (&datacoding=bin)
idx	Optional custom value sent with SMS and sent back in CALLBACK (&idx=123)
check_idx	Prevents from sending more than one message with the same idx. When this parameter is set and message with the same idx was already sent error 53 is returned.
max_parts	Defines maximum message parts allowed, maximum value allowed is 6. **ERROR: 12** will be returned when the message has more parts than defined. Defaut value can be set in customers panel.
nounicode	Setting this parameter prevents from sending messages containing special characters. **ERROR: 11** will be returned when the message contains special characters.
normalize	Setting this parameter to "1" result in changing special, national chars, to normal ones liker for polish chars "ą", "ś", "ć" etc. to "a", "s", "c". The full list of chars that may be changed is in section 15. Last sentence. **Attention!** Appearing other special chars than presented in Last sentence will result in sending message in encoding like "with special chars"
fast	Setting this parameter to „1" will result in sending message with the highest priority which ensures the quickest possible time of delivery. This parameter may be used for both PRO and ECO messages. Fast messages costs 50% more than normal message. **Attention!** Mass and marketing messages mustn't be sent with fast parameter.
expiration_date	Message expiration date (in unix timestamp) is a date after which message won't be delivered if it wasn't delivered yet. The difference between date sent and expiration date can't be less than 1 hour and more than 12 hours. Time will be set with tolerance +/- 5 minutes.
notify_url	Parameter allows to set CALLBACK URL for message from request. This parameter may be used when there is no default CALLBACK URL for this user or when it should be different then default one (notify_url has higher priority than default callback). **ATTENTION!** *notify_url* parameter may be used only for requests with one numebr, it cannot be used for mass message sending.

-     - required field

Attention! Parameters **group** and **to** are exchangeable, one of these two parameter has to appear in a request. Lack of any or appearing both of them will result in returning ERROR:13.

Request:

        http://panel.livesms.eu/sms.do?username=*username*&password=md5(*password*)&from=*sender_name*&to=44123456789&message=*message_content*

Response: **OK:<ID>:<POINTS>**

                   or (when error occur)

                   ERROR:<ERR>

<ID>   Message unique ID. You will need it for delivery confirmation
<POINTS>   Amount of used credits (i.e. Text sent in 3 messages will return 3xSMS
                   amount)
<ERR>   Error code (check the error code list in Appendix 2)

Example: **OK:17101000090360359:0.055**
                   or
                   ERROR:102

2.1 Sending Fast messages (with highest priority)

Setting parameter *fast* to „1" (&fast=1) ill result in sending message with the highest priority which ensures the quickest possible time of delivery. This parameter may be used for both PRO and ECO messages. Fast messages costs 50% more than normal message.

Request:
                   http://panel.livesms.eu/sms.do?username=*username***&password=***passw ord***&to=44123456789&fast**=1&message=***Fast_message_content***

Response: **OK:<ID>:<POINTS>**

                   or (when error occur)

                   ERROR:<ERR>

<ID>   Message unique ID. You will need it for delivery confirmation
<POINTS>   Amount of used credits (i.e. Text sent in 3 messages will return 3xSMS
                   amount)
<ERR>   Error code (check the error code list in Appendix 2)

Example: **OK:17101000090360359:0.070**
                   or
                   ERROR:102

ATTENTION! Mass and marketing messages mustn't be sent with fast parameter. In case of sending message to more than one recipient in a single request messages will be sent as normal ones, without parameter &fast=1.

2.2 Scheduled SMS sending

To send message at specified date and hour parameter **&date** has to be used. This parameter should be in UNIX timespamp format.

Request:

> **http://panel.livesms.eu/sms.do?username=username&password=_md5(p_ _assword)_&_to44123456789_&date=1577878200&message=_scheduled_mes_ _sage_content_**

Response: **OK:<ID>:<POINTS>**

or (when error occur)

ERROR:<ERR>

2.3. Deleting scheduled messages

Parameter	Description
username *	Username used to identify a user in LiveSMS system.
password *	Password to Your account hashed in MD5
*sch_del**	ID of message to delete (returned after sending one).

* - required field

Request:

> **http://panel.livesms.eu/sms.do?username=_username_&password=md5(_p_ _assword)_&sch_del=09040616088106874**

Response: **OK**

or (when error occur)

ERROR:301

Example ID: 09040616088106874

2.4. Sending SMS messages to numbers from phonebook group

It is possible to send messages to group of numbers from Phone Book. In order to do that such group should be first created in web panel menu Phone Book. An example of sending messages to group from Phone Book is like follows:

Request:

> **http://panel.livesms.eu/sms.do?username=_username_&password=md5(_p_ _assword)_&group=test_goup&message=Test message sent to contacts from phonebook**

Response: **OK:<ID>:<POINTS>**

or (when error occur)

ERROR:<ERR>

3. Bulk SMS sending

Sending messages to a group of recipients is similar to single submission (presented in chapter 2). The only difference is filling field *to* with multiple set of recipients numbers. In order to successfully send this type of message, we recommend to pass all parameters in a HTTP POST request just to assure that all recipients numbers will be submitted correctly. Using

If the total cost of sending this message is greater than the number of available credits on user's account, the system will respond **103** error code and all messages will be rejected.

If some of given recipient's numbers will be invalid (unrecognized by LiveSMS due to wrong prefix or landline number) than these numbers will be skipped and all other will be sent. Delivery reports will not concern the skipped numbers. If any number will appear more than once in one request message will be sent only once to this recipient.

Request:

> **http://panel.livesms.eu/sms.do?username=_username_&password=md5(_password_)&from=_sender_name_&to=48500500500,48501501501,48502502502&message=_message_**

Response: **OK:<ID>:<POINTS>:<PHONE>;...;...;...**

<ID>	Message unique ID. You will need it for delivery confirmation
<POINTS>	Number of used credits (i.e. Text sent in 3 messages will return 3xSMS amount)
<PHONE>	Recipient's phone number

Example:
OK:17101000090567759:0.055:500500500;OK:17101000903455357:0.055:501500501; OK:17101000096577326:0.055:502502502;

Notice that in multiple SMS sending recipients' numbers are in response as well, and all message data are separate by a semicolon (after the last message there is semicolon as well).

Recommended maximum number of messages sent in one request for **POST** method is **10000**, for **GET** method it is **200** messages.

3.1. Bulk personalized SMS sending using parameters

There is possibility to send up to 100 personalized messages in one request using personalization parameters. To send more personalized messages more than one request have to be used. Personalization parameters should be defined in request as **param1, param2, param3, param4,** which will replace **[%1%], [%2%], [%3%] and [%4%]** in message content. Values of these parameters have to be separate by pipe char „**|**" according to the template below:

param1=Ali|Michael|Ayse&param2=Smith|Thomas|Davis

The number of parameters has to be exactly the same as number of recipients in a request otherwise ERROR: 18 will be returned and message won't be sent.

IMPORTANT! Length of message ma be different depending on the length of parameter value.
If one of numbers will be invalid message to this number will be skipped and the rest will be sent.

Parameters
After defining parameters the may be used in message content:

[%1%]	Value of parameter 1 (param1)
[%2%]	Value of parameter 2 (param2)
[%3%]	Value of parameter 3 (param3)
[%4%]	Value of parameter 4 (param4)

Example:

http://panel.livesms.eu/sms.do?username=_username_&password=md5(_password_)&from=_sende r_name_&to=48600111222,48500111222&mess age=Message content, parametr1: [%1%] parametr2: [%2%] &param1=John|Ann&param2=30|40

Message will have following contents:
Message 1 : Message content, parametr1: **John** parametr2: **30**
Message 2 : Message content, parametr1: **Ann** parametr2: **40**

3.2. Bulk SMS sending using IDX parameter

There is possibility to send mass messages with custom parameter **IDX** different for each message. This parameter then is returned in CALLBACK. With parameter idx additional parameter **check_idx** (&_check_idx_=1). Using check_idx parameter prevents from two message with the same idx parameter value. To use it add at the end of request:

&**idx=idx1|idx2|idx3|idx4**

Number of IDX parameters have to be equal to the number of recipients' number given in request.

4. Sending messages using templates

Using templates it is very easy to change standard notification messages (ma be used in shops, internet services, medical clinics etc.) without changing php script that implements SMS sending.

To use templates You should:
•   After loging on **http://panel.livesms.eu/sms.do** add template in „SMS" → „Settings" → „Templates"
  •   Places which should be replaced by a parameter should be given [%N%] where N is number between 1 and 4 (parameter number)
  •   To use a template in API request there should appear &templates=template_name in the request
  •   Apart from all basic parameters while using templates following parameters are available:

Parameter	Description
template	Template name
paramN	The value of this parameter will replace [%**N**%] in the template where **N** is a number between **1** and **4**
single	If the message will contain more than 160 chars (single message) it won't be sent and ERROR:12 will be replied (&single=1)

Example:
Template name: **Notify**
Template content: Hello **[%1%]**, Your order has been sent. The shipment number is **[%2%]** You ma y follow it on our site.

http://panel.livesms.eu/sms.do?username=*username*&password=md5(*password*)&from=sende r_name&to=44123456789&template=Notify&param1=Mark&param2=BG12344423

The content of sent message:
*Hello Mark, Your order has been sent. The shipment number i **BG12344423** You ma y follow it on our site.*

5. SMS delivery confirmation receiving – CALLBACK procedure

We offer You possibility to run any available script in the web with callback delivery reports. In order to use this option please login on our site http://panel.livesms.eu and set the „Callback address DLR_SMS" in „Settings" → „API" tab „API callback settings".

Example.: http://www.my_site.com/status_update.php
It is important that entered address is a valid address to existing, available script.
After updating message status in LiveSMS system the update will be sent to callback script (1 to 5 statuses in one request). Parameter will be sent using GET method separated by commas:

$_GET['MsgId']=09062414383994024,09062414383994025
$_GET['status']=403,404

Parameter are described in following table:

Parameter	Description
MsgId*	Message ID
status*	Status code, list of codes can be find in 'Appendix 1'

idx*	Optional parameter send with SMS
donedate*	Date in UNIX timestamp of delivery report
username*	Username which sent SMS

*All characters are case sensitive

Script have to return OK (*echo „OK"***)**, otherwise the system will be sending requests every 300 seconds.

CALLBACK requests may be sent from one of following IP addresses: **46.4.31.8** and **62.181.2.52**

6. HLR lookup

HLR (Home location Register) is an extent base including different kinds of information about every working telephone number in GSM. In order to use this option you should request one of following URL :
-

http://panel.livesms.eu/hlr.do – for standard connections

with proper parameters described below. All information about numbers will be sent to address given on our site https://panel.livesms.eu at „Callback address HLR" in „Settings" → „API" tab „API Callback settings".

It is important that entered address is a valid address to existing, available script.
After checking number in HLR information about number will be send to given URL in POST table. There might be up to 20 numbers in one request.

Request:
http://panel.livesms.eu/hlr.do?username=_username_&password=md5(_password)_&number=44123123123,44234234234

Response: **OK:<NUMBER>:<ID>:<POINTS>;OK:<NUMBER>:<ID>:<POINTS>;...;...**
or
ERROR:<NUMBER>:<ERR>;ERROR:<NUMBER>:<ERR>;...;...

<NUMBER>   Checked number
<ID>   Checking unique ID.
<POINTS>   Number of used credits
<ERR>   Error code
Example:
OK:44123123123:80625:0.006;OK:44234234234:80627:0.006;
or
OK:44123123123:80625:0.006;ERROR:4433412333:13;

Returned parameters to script are described in following table:

Parameter	Description
id*	Unique Id of (request-number) which you will get when requesting to us with number
number*	Checked number
mcc*	Mobile country code
mnc*	Mobile network code
info*	Name of network or description of error
status*	OK when number is correct, FAIL when number is wrong
date*	UNIX timestamp when number was checked
ported*	0 number not ported, 1 number ported
ported_from*	null when number is not ported or name of network from which number is ported

*All characters are case sensitive

The list of possible error, which may appear in **info** field, with description is in **Appendix 2 – Error codes.**

Example:

```
Array
(
    [0] => Array
        (
            [id] =>  80625
            [number] => 48600600600
            [mcc] => 260
            [mnc] => 2
            [info] => T-Mobile
            [status] => OK
            [date] =>  1302703609
            [ported] => 0
            [ported_from] => null
        )

    [1] => Array
        (
            [id] =>   80627
            [number] => 48500600700
            [mcc] => 260
            [mnc] => 2
            [info] => ABSENT_SUBSCRIBER
            [status] => FAIL
            [date] =>  1302703609
            [ported] => 0
            [ported_from] => null
        )

)
```

Script have to return OK (*echo „OK"*), otherwise the system will be sending requests every 300 seconds.

7. Last sentence

ATTENTION! Chars: ^ { } [ ] ~ \ | <enter> according to GSM specification are being counted **double** (when no special characters are in message).

Points charges table:

Without special characters		With special or/and polish characters	
Characters amount	**Number of parts**	**Characters amount**	**Number of parts**
160	1 SMS	70	1 SMS
306	2 SMS	134	2 SMS
459	3 SMS	201	3 SMS
612	4 SMS	268	4 SMS
765	5 SMS	335	5 SMS
918	6 SMS	402	6 SMS

Attention! The newest LiveSMS technical documentation is always in „HELP" on our website https://www.livesms.eu

CALLBACK requests may be sent from one of following IP addresses: **62.181.2.52, 62.181.2.56, 31.186.85.46** and **31.186.82.159**

List of special chars that may be changed to normal ones using parameter *&normalize***:**

```
'normalize_chars' => array(
        'Š'=>'S', 'š'=>'s', 'Ś'=>'S', 'ś'=>'s', 'Đ'=>'Dj', 'đ'=>'dj', 'ź'=>'z', 'ż'=>'z','Ź'=>'Z', 'Ż'=>'Z', 'Ž'=>'Z',
        'ž'=>'z', 'Č'=>'C', 'č'=>'c', 'Ć'=>'C', 'ć'=>'c', 'À'=>'A', 'Ą'=>'A', 'Á'=>'A', 'Â'=>'A', 'Ã'=>'A', 'Ä'=>'A',
        'Å'=>'A', 'Æ'=>'A', 'Ç'=>'C', 'È'=>'E', 'É'=>'E', 'Ę'=>'E', 'ę'=>'e', 'Ê'=>'E', 'Ë'=>'E', 'Ì'=>'I', 'Í'=>'I',
        'Î'=>'I', 'Ï'=>'I', 'Ñ'=>'N', 'Ò'=>'O', 'Ó'=>'O', 'Ô'=>'O', 'Ł'=>'L', 'ł'=>'l', 'Ń'=>'N', 'ń'=>'n', 'Õ'=>'O',
        'Ö'=>'O', 'Ø'=>'O', 'Ù'=>'U', 'Ú'=>'U', 'Û'=>'U', 'Ü'=>'U', 'Ý'=>'Y', 'þ'=>'B', 'ß'=>'Ss','à'=>'a', 'ą'=>'a',
        'á'=>'a', 'â'=>'a', 'ã'=>'a', 'ä'=>'a', 'å'=>'a', 'æ'=>'a', 'ç'=>'c', 'è'=>'e', 'é'=>'e', 'ê'=>'e', 'ë'=>'e',
        'ì'=>'i', 'í'=>'i', 'î'=>'i', 'ï'=>'i', 'ð'=>'o', 'ñ'=>'n', 'ò'=>'o', 'ó'=>'o', 'ô'=>'o', 'õ'=>'o', 'ö'=>'o',
        'ø'=>'o', 'ù'=>'u', 'ú'=>'u', 'û'=>'u', 'ý'=>'y',  'þ'=>'b', 'ÿ'=>'y', 'Ŕ'=>'R', 'ŕ'=>'r',
    ),
```

Appendix 1 – Delivery reports list

Status list:

Number	STATUS	Description
401	*NOT_FOUND*	Wrong ID or report has expired
402	*EXPIRED*	Messages expired
403	*SENT*	Message is sent
404	*DELIVERED*	Message is delivered to recipient
405	*UNDELIVERED*	Message is undelivered (invalid number, roaming error etc)
406	*FAILED*	Sending message failed – please report it to us
407	*REJECTED*	Message is undelivered (invalid number, roaming error etc)
408	*UNKNOWN*	No report (message may be either delivered or not)
409	*QUEUED*	Message is waiting to be sent
410	*ACCEPTED*	Message is delivered to operator

Appendix 2 – Error codes

Error codes list:

ERROR	Description
8	Error in request (Please report)
11	Message too long or there is no message or parameter **nounicode** is set and special characters (including Polish characters) are used.
12	Message has more parts than defined in *&max_parts* parameter.
13	Invalid phone number
14	Wrong sender name
17	FLASH message cannot contain special characters
18	Invalid number of parameters
19	Too many messages in one request
20	Invalid number of IDX parameters
25	Parameters *&normalize and &datacoding* musn't appear in the same request.
30	Wrong UDH parameter when &datacoding=bin
40	No group with given name in phonebook
41	Chosen group is empty
50	Messages may be scheduled up to 3 months in the future
52	Too many attempts of sending messages to one number (maximum 10 attempts whin 60s)
53	Not unique idx parameter, message with the same idx has been already sent and &check_idx=1.
54	Wrong date - (only unix timestamp and ISO 8601)
56	The difference between date sent and expiration date can't be less than 1 and more tha 12 hours.
70	Invalid URL in *notify_url* parameter.
72	Parameter *notify_url* may be used only in requests with one recipient's number, it cannot be used for mass message sending.
101	Invalid authorization info
102	Invalid username or password
103	Insufficient credits on Your account
104	No such template
105	Wrong IP address (for IP filter turned on)
200	Unsuccessful message submission
201	System internal error (please report)
202	Too many simultaneous request, message won't be sent
301	ID of messages doesn't exist
400	Invalid message ID of a status response
999	System internal error (please report)

HLR error's list:

Błąd	Opis
UNKNOWN_SUBSCRIBER	Invalid, not active number. Error is permanent.
ABSENT_SUBSCRIBER	Number turned off or out of range. Number is considered to be inactive but it may change back to active once it is in range. Error is temporary.
TELESERVICE_NOT_ PROVISIONED	The recipient has no SMS subscription. Error is permanent.
SYSTEM_FAILURE	Temporary network or protocol failure
HLR_LOCAL_CANCEL / HLR_ABORT	Temporary problem or lost reach
CALL_BARRED	Barring of the recipients number. Error is permanent.

Appendix 3 - Encoding

Default encoding is windows-1250. However you can set different encoding of messages by additional parameter **&encoding** in your HTTP GET request. Available encoding types are:

'iso-8859-1'
'iso-8859-2'
'iso-8859-3'
'iso-8859-4'
'iso-8859-5'
'iso-8859-7'
'windows-1250'
'windows-1251'
'utf-8'

Example:
http://panel.livesms.eu/sms.do?username=*username*&password=*password_in_MD5*&to=48500 000000&encoding=utf-8&message=*message_content*

Appendix 4 – Example scripts

Sending SMS message using fopen function

```php
<?php

$params = array(
  'username' => 'your_username',    //username from LiveSMS
  'password' => md5('password'),    //password has to be in MD5
  'to'       => '4412334445566',    //destination number
  'from'     => 'LiveSMS.eu',         //sender name has to be active
  'message' => 'content of message',    //message content
);
if ($params['username'] && $params['password'] && $params['to'] && $params['message']) {
    $data = '?'.http_build_query($params);
    $plik = fopen('http://panel.livesms.eu/sms.do'.$data,'r');
    $wynik = fread($file,1024);
    fclose($file);
    echo $result;
}

?>
```

Receiving delivery report example (CALLBACK SMS DLR)

```php
<?php


if($_GET['MsgId'] && $_GET['status'] ) {
    mysql_select_db('db_name',mysql_connect('localhost','username','password'));
    $arIds = explode(',',$_GET['MsgId']);
    $arStatus = explode(',',$_GET['status']);
    $arIdx = explode(',',$_GET['idx']);

    if($arIds){
        foreach($arIds as $k => $v){
            mysql_query("UPDATE sms SET sms_status =
'".mysql_real_escape_string($arStatus[$k])."', sms_index =
'".mysql_real_escape_string($arIdx[$k])."' WHERE sms_id
='".mysql_real_escape_string($v)."' LIMIT 1");
    }

    mysql_close();
    echo "OK";
}

?>
```

History of changes

Version	Changes
Ver. 3.4	1. Introducing *&notify_url* parameter and new error codes corresponding with it.
Ver. 3.3	1. Introducing *&expiration_date* and new Error code 56 corresponding with it. 2. HLR errors description introduced. 3. Updating list of IP addresses from which callback may be sent.
Ver. 3.2	1. New date format allowed (ISO 8601) and new Error code 54 meaning wrong date format. 2. New parameter *&max_parts*
Ver. 3.1	1. New parameter *check_idx* and corresponding with it error code 53 introduced. 2. Error code 52 introduced. 3. New parameter *group* introduced, parameter this allows sending messages to groups from phonebook. 4. New parameter *&normalize* and corresponding with it error code 25 introduced.
Ver. 3.0	Specification for new version of service

ATTENTION! You can find the newest version of LiveSMS technical documentation in tab „Help" on our site http://www.livesms.eu