

SmsExtraPro Gateway

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1 Introduction

Our Gateway enables you to:

- send SMS messages to one or more recipients by logging onto our servers directly via http POST and/or GET requests from your application.
- receive SMS messages on your application sent by a user to your SmsExtraPro account via http GET requests.

This Gateway offers you all SmsExtraPro's sending and receiving functionality such as:

- requesting a receipt.
- delayed sending.
- customised signature.
- forwarding of SMS messages received.
- etc

FREE TEST CREDIT:

If you would like to carry out a few tests (from the interface or via http requests), we invite you to create an account free of charge on www.smsextrapro.com and tell us when your account has been created (by informing us of your account's e-mail address).

We will credit your account free of charge.

2 Glossary

- **HTTP protocol, GET and POST request, url encoding:**
A description of these concepts is beyond the remit of this document.
Many explanations of these concepts can be found on the Internet, in particular on:
<http://www.commentcamarche.net/contents/internet/http.php3>
http://fr.wikipedia.org/wiki/Hypertext_Transfer_Protocol
- **Case dependant**
This term indicates that uppercase and lowercase characters must be respected.
- **Long SMS**
SMS messages of over 160 characters and a maximum of 1500 sent as several linked text messages. Modern GSM phones are capable of joining the different fragments together to display these messages as a single long SMS message.
The cost of a long SMS message therefore, is the cost of a normal SMS message multiplied by the number of SMS messages required to display the whole message.
From 0 to 160: 1 SMS message.
From 161 to 300: 2 SMS messages.
From 301 to 450: 3 SMS messages.
...
- **UNIX TIMESTAMP**
Represents the number of seconds elapsed since 01/01/1970 00 :00 :00 UTC.
See <http://www.unixtimestamp.com/>
- **SMS Reverse Billing**
An SMS message where the cost is paid in full by the end user.
- **Receipt**
A receipt allows you to find out the status of an SMS message that has been sent (received, waiting, error,...).
- **ShortCode**
Short (4 figures or more) or long number (11 figures) making it possible to receive SMS messages when they are sent from a GSM phone to the number in question.
- **Dedicated ShortCode**
A dedicated short code is a number that is only used by a single customer.
- **Shared ShortCode**
A shared short code is a number used by several of our customers. In this case, one or more keywords are assigned to each customer.
- **Keyword**
A word of a minimum of 4 characters which must be present at the start of each SMS message and which permits the message to be directed to the SmsExtraPro member concerned.

3 Sending SMS messages via the Gateway

3.1 URL for requests

the URL to call for forwarding your requests:

<http://www.smsextrapro.com/HttpSend/HttpSend.php>

3.2 Input variables

Variables are passed in the form of GET and/or POST parameters.

Variable names are case dependent: uppercase and lowercase characters must be respected.

In addition, in accordance with the HTTP protocol, variable names and values must be url encoded.

Variables preceded by an * are compulsory when sending your request.

Variables (case dependant)	Value
*Login=	The e-mail address of your SmsExtraPro account
*Psw=	The password for your SmsExtraPro account
*DestNum= OR *DestList=	<p>The telephone number of the recipient(s). If there are several recipients, they should be separated by semicolons (;). Numbers must be in international format (e.g.: 33688440512 or 32475112233). For Belgium and France, the national format may be used (e.g.: 0688440512 or 0475112233)).</p> <p>The name of one or more lists available in your SmsExtraPro account. If there are several lists, they should be separated by semicolons (;). (e.g.: List1 ;List2 ;List3)</p> <p>PLEASE NOTE: You are obliged to give one of the two variables: the variable DestNum or the variable DestList. You can also use both variables together. Duplicates are filtered on sending.</p>
*Signature=	<p>Text (max 11 characters) or number (signature added to the SmsExtraPro account) which will appear as the sender of the SMS message, except for reverse billing SMS messages.</p> <p>In the case of reverse billing SMS messages, the signature appears at the start of the message: "signature> Hello, this is a test etc...".</p> <p>If you do not wish to include a signature at the start of your message, you just need to enter a full-stop (.) in place of the signature. E.g.: "Signature="</p>
*Message=	Content of the SMS message to be sent. Maximum 160 characters.
LongSms=	If LongSms=Y, the SMS message will be considered as a long SMS, therefore its maximum permitted size will be 1500 characters, and it will be invoiced at the price of an SMS multiplied by the number of SMS messages required to display the complete message.
SendDate=	Lets you choose the date and time at which the SMS message will be sent. Format: UNIX TIMESTAMP
Type=	<p>Values: 0 OR 1.</p> <p>If 0, normal SMS (default). If 1, SMS with receipt.</p> <p>(In the case of Belgium, if you have access to sending SMS messages paid for by the recipient, the value 10 sends a reverse billing SMS).</p>

ClientSmsID=	SMS identifier of your choice which is returned to you if you ask for a receipt and if you have specified a URL for SMS status returns (whole number of the Int32 type).
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Example of a request to send an SMS:

<http://www.smsextrapro.com/HttpSend/HttpSend.php?Login=xxx@yyy.com&Psw=xxxxxx&DestNum=324xxxxxxx&Signature=Me&Message=Hello%2C+this+is+the+sms+message.+Max+length+160+characters&Type=1>

3.3 Data returned

The server responds, complying with the HTTP protocol.

The format of the response is a line of the type:

<Status>: <Message>

- If the message is saved correctly, the response is:

Ok: Ok

The message will then be sent immediately or later depending on the value of SendDate.

The receipt will be forwarded in the form of an HTTP request to your return URL (as long as it has been defined and you have requested a receipt).

- If an error occurs when your request is being sent, the response is:

Error: <Error message>

Error messages	Value
Incorrect Login	Login incorrect
Incorrect Login/Psw	Incorrect login or password
Member not allowed to send long SMS messages	You are not permitted to send long SMS messages
No dest	No recipient has been specified
Signature too long	Signature too long (over 11 characters)
Too many digit in signature	Too many digits used in the signature
Invalid Date	The scheduled sending date is invalid
No message	There is no message
Message too long	The message is too long (over 160 characters)
You are not allowed to reverse billing	You are not permitted to send RB SMS messages

3.4 Checksum

The checksum allows you to send your SMS messages via the Gateway without transmitting your password in the requests.

In order to do this, the variable "Psw" must be replaced by "Checksum".

The variable "Checksum" is calculated via an Md5 of the following values pasted one after the other:

- **Login:** the login for your SmsExtraPro account.
- **Psw:** the password for your SmsExtraPro account.
- **Message:** the content of the Message variable

In PHP for example, this is written:

```
$Checksum = md5($Login . $Psw . $Message) ;
```

If your login is "xxx@yyy.com", your password is "azerty" and your message is "Hello, this is the SMS message":

```
$Checksum = md5('xxx@yyy.comazertyHello, this is the SMS message');
```

3.5 Receipt

When the variable Type= is present in your request and it is set to 1, this means that you would like to receive a receipt for this message.

If you would like us to send these receipts to your application, you just need to give us the URL to which they should be forwarded. You can define it in your SmsExtraPro account by clicking on "Sending option" in the left-hand menu, then "URL for sending receipts" and save your URL here.

We will send you the following variables via this URL as soon as the status of an SMS message is changed:

Variables	Value
SmsID=	SMS identifier in our database.
ClientSmsID=	Variable that you specify when sending an SMS via the Gateway.
Dest=	Number for the recipient of the SMS.
Status=	"Aked", "Pending", "Error", or "Timeout".
Comment=	Any comments
StatusCode=	Code corresponding to the precise status of the SMS (see table below)

Example of a receipt

<http://www.mysite.com/MyReceipts.php?SmsID=123456&ClientSmsID=258&Dest=324xxxxxxx&Status=Aked&Comment=&StatusCode=200>

Please find below a list of possible receipts

Status	StatusCode	Comment	Meaning
Pending	100	Pending	Waiting for delivery confirmation
Pending	101	Gsm Off	The recipient's GSM is not accessible
Pending	102	Gsm Full	The recipient's GSM cannot receive any new messages
Aked	200		The SMS has been delivered correctly
Error	500	Delivery failed	The SMS could not be delivered
Error	501	Invalid destination format	The recipient's format is incorrect
Error	502	Blacklisted destination	The recipient has been "blacklisted"
Error	503	Unexisting destination	The recipient's number does not exist
Error	504	Insufficient balance	The recipient's prepaid card is empty
Error	505	Not allowed destination	You are not permitted to send Reverse Billing SMS messages to this number
Error	506	Message content not allowed	The content of your message is not permitted
Timeout	900	Unknown	No confirmation of delivery but no error indicated

4 Receiving SMS messages via the Gateway

4.1 Introduction

You can receive SMS messages via your SmsExtraPro account.
SMS messages can be received via two types of number:

- The short number.
- The long number.

The short number enables you to receive SMS messages that are premium rate or free for the user.
The long number enables you to receive normal SMS messages.

Each of these numbers may be "dedicated" or "shared".

A dedicated number is a number used only by you.

A shared number is a number used by several of our customers.
In this case, the first word in the message will be considered as a keyword and will be used to direct the message to the SmsExtraPro account of the corresponding member.

4.2 "Keyword / Message content" splitting

4.2.1 Shared short code

On receipt of an SMS message our system will split your SMS into two:

- The first word of the message will be considered as the keyword (referred to below as: RealKey)
- The rest of the message will be considered as the message content.

The keyword (RealKey) will be analysed to link it with the theoretical keyword (Key) to which it corresponds.
Theoretical keywords are those chosen by our customers when they reserve a keyword.

This theoretical keyword may be a complete word or a prefix.

In the latter case, it is sufficient for the first word (RealKey) to start with the theoretical keyword (Key) for the message to be assigned to it.

Example:

- You have chosen a theoretical keyword (Key): "ABC%" (the % at the end indicates that it is a prefix).
- An SMS message arrives with the following content: "ABCDEF Hi everyone."
- The RealKey is extracted: "ABCDEF"
- The content is extracted: "Hi everyone."
- The Key "ABC%" is actually a prefix for the RealKey "ABCDEF" → the SMS received is assigned to your account.

4.2.2 Dedicated short code

On receipt of an SMS using a dedicated Short code, the message is not split.
The contents of the SMS correspond to the whole message.

4.3 Forwarding of SMS messages received to your URL

4.3.1 Shared short code

On receipt of an SMS message using a keyword linked to your SmsExtraPro account, we forward this SMS to your server (URL) via an http GET request.

The variables transmitted to your URL on receipt of an SMS via your SmsExtraPro account are as follows:

Variables	Value
ShortCode=	The reception number (short or long number)
SmsID=	SMS identifier in our database.
Sender=	The sender's telephone number
Key=	Your theoretical keyword or prefix
RealKey=	The keyword actually sent by the user
Msg=	The rest of the message content (no longer contains the Key= or RealKey=).
Provider=	The name of the operator

Example:

- SMS received: "ABCDEF Hi everyone." using the ShortCode : 1234
- Theoretical keyword: "ABC%" → Encoded URL, this gives: "ABC%25"
- Your URL for receiving messages is: <http://www.mysite.com/MySmsReceived.php>

The full URL that will be called to forward your SMS message will be:

<http://www.mysite.com/MySmsReceived.php?ShortCode=1234&SmsID=12569&Sender=324xxxxxxx&Key=ABC%25&RealKey=ABCDEF&Msg=Hi+everyone.&Provider=Belgium>

4.3.2 Dedicated short code

On receipt of an SMS message using a dedicated number linked to your SmsExtraPro account, we forward this SMS to your server (URL) via an http GET request.

The variables forwarded to your URL on receipt of an SMS via your SmsExtraPro account are as follows:

Variables	Value
ShortCode=	The reception number (short or long number)
SmsID=	SMS identifier in our database.
Sender=	The sender's telephone number
Key=	Empty
RealKey=	Empty
Msg=	The whole content of the message
Provider=	The name of the operator

Example:

- SMS received: "ABCDEF Hi everyone." using the ShortCode : 1234
- Your URL for receiving messages is: <http://www.mysite.com/MySmsReceived.php>

<http://www.mysite.com/MySmsReçus.php?ShortCode=1234&SmsID=12569&Sender=324xxxxxxx&Key=&RealKey=&Msg=ABCDEF+Hi+everyone.&Provider=Belgium>