

# HTTP Specifications

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# 1 Introduction

This document describes the HTTP interface for sending SMS messages.

## 1.1 *Change history*

<b>Date:</b>	<b>Change:</b>
Sept. 25, 2002	Initial release
Feb. 17, 2004	NOTTYPE parameter added, NOT parameter updated

## 2 Technical specifications

### 2.1 Connection details

In order to use this interface, an HTTP connection has to be established with the following parameters:

Main gateway:	gateway.hotsms.com
Port:	80 or 443 (SSL)
URL:	/sendsms
Backup gateway:	gateway2.hotsms.com
Port:	80
URL:	/sendsms

### 3 Parameters

To send SMS messages using the HTTP interface, the user can use the following parameters:

<b>Parameter:</b>	<b>Mandatory/Optional:</b>	<b>Description:</b>
<b>UID / CUID:</b>	Mandatory	The username of the SMS account on the SMS gateway
<b>PWD / CPWD:</b>	Mandatory	The password of the SMS account on the SMS gateway
<b>M:</b>	Mandatory	The body of the SMS message
<b>N:</b>	Mandatory	Recipient list of mobile phone numbers to receive the SMS message
<b>O:</b>	Optional	Originator of the SMS message
<b>ONUM:</b>	Optional	Numeric originator
<b>GROUP:</b>	Optional	Existing group name under the account of the user
<b>VAL:</b>	Optional	Validity of the SMS message
<b>FLASH:</b>	Optional	Flash SMS message
<b>DATE:</b>	Optional	Delivery date and time
<b>REP:</b>	Optional	Replace code
<b>NOT:</b>	Optional	Notification request
<b>NOTTYPE:</b>	Optional	Notification type
<b>MSGID:</b>	Optional	Message ID
<b>BATCHID:</b>	Optional	Batch ID
<b>INFO:</b>	Optional	Request additional error information
<b>TEST:</b>	Optional	Parameter for test purposes

#### 3.1 Account Username (UID / CUID)

UID contains the username of the account on the SMS gateway. It is not possible to use this interface without an existing account.

CUID can be used for extra security. If this parameter is used, the username is transmitted using base64 encoding.

#### 3.2 Account Password (PWD / CPWD)

PWD contains the password of the account on the SMS gateway. It is not possible to use this interface without an existing account.

CPWD can be used for extra security. If this parameter is used, the password is transmitted using base64 encoding.

#### 3.3 Message Body (M)

This parameter contains the body of the SMS message. The maximum length is 160 characters, additional characters will be removed.

### 3.4 Recipient List (N)

The recipient list is a comma-separated list of mobile numbers. The format of the mobile number is in international format. There is no restriction to the amount of mobile numbers in the list.

Plus (+) and minus signs (-) are allowed.

**Examples:**

+31612345678  
33123456789

For Dutch, Belgium and German numbers, national numbers are also allowed (e.g. 061234567, 0412345678 and 01712345678).

**Please note:**

If the recipient list contains invalid numbers, no SMS messages will be send to the other recipients in the list. So either all messages will be send, or none in case of errors.

### 3.5 Originator (O)

The originator can be either numeric or alphanumeric. In case of a numeric originator, the maximum length is 16 digits. In case of an alphanumeric originator, the maximum length is 11 characters.

Please note that numeric originators starting with 00<NUMBER> will be translated to <NUMBER> by the SMS gateway.

*Default value:* Originator specified in the user profile.

### 3.6 Originator Type (ONUM)

This parameter applies when the originator is set to a numeric value, otherwise it will be ignored. ONUM has the following values:

<b>Value:</b>	<b>Description:</b>
0	Originator is in international format and will be prefixed by a + sign
1	Originator is in national format

**Examples:**

O=1234 and ONUM=0 will be displayed on the mobile phone as: **+1234**  
O=1234 and ONUM=1 will be displayed on the mobile phone as: **1234**

*Default value:* 0

### 3.7 Group Name (GROUP)

An existing group name can be specified instead of mobile numbers.

### **3.8 Validity (VAL)**

This parameter indicates how long an SMS message should be stored in the mobile network when immediate delivery is impossible (e.g. mobile phone switched off). If the SMS message is not delivered after this time, it will be removed from the message queue. The value is in seconds and ranges from 180 (3 minutes) to 604800 (1 week).

*Default value:* 259200 (3 days)

### **3.9 Flash (FLASH)**

A Flash message is displayed immediately on the screen of the mobile phone, without any action from the recipient. The possible values are 0 (OFF) and 1 (ON).

*Default value:* 0 (OFF)

### **3.10 Deferred Delivery (DATE)**

SMS messages can be delivered at a later date. To specify the exact date and time, the DATE parameter can be used. The format of the value is **YYYY-MM-DD,HH:MM**

**Example:**

2002-09-25,12:00

*Default value:* Immediate delivery

### **3.11 Replace Code (REP)**

Certain mobile phones have the feature to replace old SMS messages with a new one by replacing the old message, therefore not using any additional SMS storage in the memory of the mobile phone.

**Please note:**

- To replace an existing SMS message in the mobile phone, the recipient's phone has to support this feature. If not, the message will be treated as a normal SMS message and stored in a different memory location on the mobile phone.
- For this function to work, the originator and the REP-parameter have to be identical to the originator and REP-parameter of the message to be replaced.

To create multiple groups, the REP-parameter has seven possible values: 1, 2, 3, 4, 5, 6, 7

*Default value:* 0 (No replace)

### 3.12 Notification Request (NOT)

Notification requests can be used to track the status of an SMS message. For each recipient, the SMS gateway will report the status to the user. To request notifications, the following values are defined:

<b>Value:</b>	<b>Description:</b>
<b>0</b>	Notifications off
<b>1</b>	Notifications enabled – using a high-quality route
<b>2</b>	Notifications enabled – using the default route

*Default value:* 0 (OFF)

When notifications are requested, an extra HTTP header is included in the response containing the internal batch number. This batch number can be used to link a received notification to the correct SMS message. The name of the extra HTTP header is X-Batch.

#### **Example response:**

```
HTTP/1.0 200 OK
Date: Wed, 05 Jul 2000 18:51:35 GMT
Server: Apache/1.3.12 (Unix)
X-Batch: 12345
Connection: close
Content-Type: text/plain
```

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#### **Please note:**

The differences between using the high-quality route and the default route are as follows:

##### *High-quality route:*

- Highly reliable delivery notifications
- Additional costs per SMS

##### *Default route:*

- Best-effort delivery notifications (not guaranteed)

For more information, please see the document *Notification Specifications*.

### 3.13 Notification Type (NOTTYPE)

When requesting notifications, the parameter NOTTYPE defines which types of notifications are requested. The following values are defined:

Value:	Type:	Description:
1	accepted	Message accepted by the SMSC
2	buffered	Message could not be delivered immediately and was stored in the SMSC for later delivery
4	delivered	Message delivered
8	undelivered	Message undelivered

*Default value:* 12 (delivered + undelivered)

A combination of notification types is also possible. To request both delivered and undelivered notifications, the value of the parameter NOTTYPE should be  $4 + 8 = 12$ .

#### Example:

```
NOTTYPE=1           (accepted)
NOTTYPE=12          (delivered + undelivered)
NOTTYPE=15          (accepted + buffered + delivered + undelivered)
```

### 3.14 Batch ID (BATCHID)

This parameter can be used to prevent duplicate delivery of the same SMS message(s). When BATCHID is specified, the gateway will check to see if the same BATCHID has already been used once by the user. If so, the SMS message will be rejected and the corresponding error code will be returned to the user. The maximum length is 32 characters.

### 3.15 Message ID (MSGID)

To specify extra information for logging purposes, this parameter can be used. Different projects can be separated by using different message ids. The maximum length is 32 characters.

### 3.16 Error Information (INFO)

In case of an error result code, the user can request additional error information by specifying this parameter. The result code will be followed by an = sign and the error description. The possible values are 0 (OFF) and 1 (ON).

#### Examples:

```
N=1234 and INFO=0 → Result code: 97
N=1234 and INFO=1 → Result code: 97=Invalid destination number length (1234)
```

```
O=InvalidOriginator and INFO=0 → Result code: 97
O=InvalidOriginator and INFO=1 → Result code: 97=Originator too long (alphanumeric)
```

*Default value:* 0 (OFF)

### **3.17 Testing (TEST)**

For testing purposes, this parameter can be used to simulate the sending of an SMS message. During testing, all parameters are verified, but the actual SMS message is not send. The possible values are 0 (OFF) and 1 (ON).

*Default value:* 0 (OFF)

## 4 HTTP request

To send SMS messages using the HTTP interface the user has to:

- Connect to the SMS gateway using TCP (see 2.1)
- POST the parameters
- Read the response from the SMS gateway
- Close the connection with the SMS gateway

### 4.1 Example POST request

```
POST /sendsms HTTP/1.0\r\n
Host: gateway.hotsms.com\r\n
Content-Type: application/x-www-form-urlencoded\r\n
Content-Length: 63\r\n
Connection: close\r\n
\r\n
UID=username&PWD=password&N=31612345678&M=Hello%20world!&INFO=1
```

**Please note:**

The parameter values should be URL encoded as specified in the HTTP protocol.

### 4.2 SMS gateway response

Every POST request is answered by the SMS gateway with a result code. Standard HTTP headers precede the result code. The following result codes are defined:

<b>Value:</b>	<b>Description:</b>
<b>01</b>	OK, message(s) sent
<b>99</b>	Invalid username and/or password
<b>98</b>	Insufficient SMS balance
<b>97</b>	Parameter syntax error
<b>96</b>	Blocked account
<b>95</b>	Internal error, please try again
<b>94</b>	Duplicate batch ID

When the INFO parameter is used (see 3.16), the result code is followed by the = sign and an error description. This can be useful for tracking errors, especially parameter errors.

**Example response:**

```
HTTP/1.0 200 OK
Date: Wed, 05 Jul 2000 18:51:35 GMT
Server: Apache/1.3.12 (Unix)
Connection: close
Content-Type: text/plain
```

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## 5 Support

For further questions please contact [support@hotsms.com](mailto:support@hotsms.com)