

# HTTP Specifications

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## 1 Introduction

This document describes the HTTP interface for receiving SMS messages using the Mobile Messaging Platform of HotSMS.

### 1.1 *Change history*

<b>Date:</b>	<b>Change:</b>
Sept. 26, 2002	Initial release
Jan. 11, 2003	GET request changed to POST request
Mar. 10, 2003	Operator Ben changed to T-Mobile
Jun. 23, 2003	UNIQUEID parameter added
Jul. 15, 2003	ACTION parameter added
Aug. 13, 2003	Operator O2 changed to Telfort
Oct. 20, 2003	Belgium operators added

## 2 Technical specifications

### 2.1 *Connection details*

SMS messages are delivered real-time to the customer using HTTP POST requests. The IP-address of the SMS gateway performing the requests is:

IP-address: **212.204.209.161**

This IP-address can be used by the user to check if a request is valid.

### 3 Parameters

The SMS gateway delivers exactly one SMS message per request. The following parameters are defined:

<b>Parameter:</b>	<b>Mandatory/Optional:</b>	<b>Description:</b>
<b>ORIG:</b>	Mandatory	The originator of the SMS message in international format
<b>DEST:</b>	Mandatory	The destination number (either shortcode or mobile number)
<b>MSG:</b>	Mandatory	The body of the SMS message
<b>UNIQUEID:</b>	Mandatory	Unique identifier of the SMS message
<b>TIME:</b>	Mandatory	Date and time on which the SMS message was received
<b>KEYWORD:</b>	Optional	The keyword on which the SMS message was matched
<b>OPR:</b>	Optional	The mobile subscriber's operator
<b>SMSC:</b>	Optional	The number of the SMS center which sent the message
<b>ACTION:</b>	Optional	The subscription action performed by the SMS gateway

#### 3.1 Originator (*ORIG*)

ORIG contains the originator of the SMS message in international format.

**Example:**

ORIG=31612345678

#### 3.2 Destination (*DEST*)

This parameter contains the number to which the SMS message was sent. This can be either a shortcode or mobile number.

**Examples:**

DEST=4411  
DEST=31655100000

#### 3.3 Message body (*MSG*)

This parameter contains the body of the SMS message.

#### 3.4 Unique identifier (*UNIQUEID*)

Every SMS message contains a unique identifier. This 32-character long identifier can be used to check duplicate SMS messages. It is strongly advised to store these unique identifiers and check every incoming SMS message if it has already been delivered. Certain network problems can cause messages to be resend.

**Example:**

UNIQUEID=462763289f3ae619e581b5ffcee79039

### 3.5 *Received (TIME)*

This parameter contains the date and time at which the SMS message was received by the SMS gateway in the format YYYYMMDDHHMMSS.

**Example:**

TIME=20020123144800

### 3.6 *Keyword (KEYWORD)*

If the customer uses keywords on specific numbers, this parameter contains the keyword on which the SMS message was matched.

### 3.7 *Operator (OPR)*

If the user is receiving messages on a shortcode, this parameter contains the mobile subscriber's operator.

<b>Value:</b>	<b>Country:</b>	<b>Network:</b>
1	Netherlands	Vodafone
2	Netherlands	KPN
3	Netherlands	Telfort
4	Netherlands	Orange
5	Netherlands	T-Mobile
6	Belgium	Proximus
7	Belgium	Mobistar
8	Belgium	Base

### 3.8 *SMS center (SMSC)*

If the user is receiving messages on a mobile number, this parameter contains the number of the SMS center in international format.

**Example:**

SMSC=31653131313

### **3.9 Subscription action (ACTION)**

When using keywords in combination with Reverse Billing subscriptions, an extra parameter ACTION will be added when the user subscribes or unsubscribes from the service. The SMS gateway keeps track of all subscribed mobile numbers and defines the actions based on subscription state and message body.

**Please note:**

This parameter is only applicable to keywords used for subscription-based Reverse Billing services. The client will not receive any MO messages unless a user is subscribed to the service.

**Example:**

ACTION=SUBSCRIBE  
ACTION=UNSUBSCRIBE

## 4 HTTP request

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

- Provide an URL to which the SMS messages will be send to
- Accept the request of the SMS gateway
- Respond to the request of the SMS gateway

### 4.1 Example POST request

```
POST /someurl HTTP/1.0\r\n
Host: www.userserver.nl\r\n
Content-Type: application/x-www-form-urlencoded\r\n
Content-Length: 61\r\n
Connection: close\r\n
\r\n
ORIG=31612345678&DEST=4411&TIME=20020925120716&MSG=Test&OPR=1&UNIQUEID=
462763289f3ae619e581b5ffcee79039
```

### 4.2 Server response

Every POST request has to be answered by a positive or negative result in the body of the HTTP reply. The following result codes are defined:

<b>Value:</b>	<b>Description:</b>
<b>OK</b>	OK, message accepted
<b>ERROR</b>	Message not accepted, do not retry

Any other response will cause the SMS gateway to retry the same SMS message every 30 seconds.

**Please note:**

We strongly advice users to check if a certain SMS message has already been received. This can be done by storing the UNIQUEID parameters. The user has to check every request to see if the same UNIQUEID has already been delivered. If so, the user should respond with an ERROR response.

## 5 Support

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