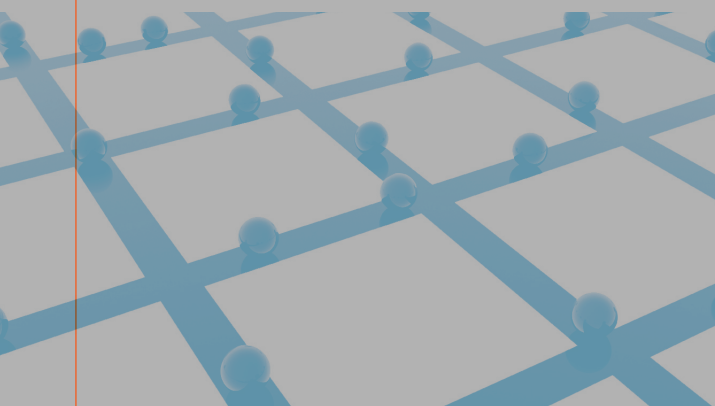


RECEIVING MESSAGES – INCOMING NUMBERS

User guide



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www.routomessaging.com
support@routotelecom.com



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Version	Date	Author	Section	Changes to documentation
1.1	10-Sept-2010			Initial release

Table 1: Change history

1 Introduction

The RoutoMessaging SMS Gateway is a platform capable of delivering SMS messages to any CDMA/GSM mobile handset through partnerships with more than 800 mobile operators.

We have a clear focus on SMS mobile messaging with advanced features including sending picture messages, ring-tone, logo, business card, WAP Push, V-Calendar, V-Card, Flash messages and Unicode messages.

By using the RoutoMessaging SMS gateway, registered users can send different types of messages:

- **Plain SMS** - standard SMS message
- **Unicode Messages** – SMS with standard character encodings
- **Long and Concatenation**- the method for sending more than 160 characters of information where several separate short messages to our gateway will be displayed as one message
- **Flash SMS** – an SMS message which appears directly on the mobile phone display instead of the usual inbox; this type of message can be useful if you want to catch recipient's attention immediately
- **MMS notifications** – an SMS message with a link for an image, video, audio or rich text which are stored on the Web server
- **Binary Messages/MMS** – rich content SMS messages with more operator logos, ringtones, telephone settings and WAP push messages
- **Ring Tone** – an SMS containing melodies and tunes which can give a unique sound to the GSM phone ringtone you can send to your contacts
- **vCard** – an SMS containing electronic business cards
- **vCalendar** – an SMS containing a calendar entry and schedule information
- **Operator Logos** – an SMS containing a picture that can be sent to a handset as either a single message or a series of concatenated SMS messages
- **Picture Messages** – an SMS containing monochrome pictures which can be sent as a series of SMS messages
- **WAP bookmarks** – an SMS containing a web link which makes it easy to open the page in the browser
- **EMS** – this is an Enhanced Messaging Service which provides rich-media content e.g. picture, ring tones

This document is a manual guide for sending and receiving SMS through HTTP and SMPP protocols, Easy Messenger Desktop SMS Software and Command Center (Web SMS interface).

2 Receiving Messages (Incoming Numbers)

We can offer our clients the service of receiving text messages through [Long Numbers](#) (Virtual Mobile Numbers). These appear like regular mobile numbers allowing mobile users to send text messages into your application using HTTP/S, SMPP Interface, to our Web SMS tool or directly to your desktop using Easy Messenger Desktop SMS software.

There are 2 connection methods for receiving messages and those are:

- **through HTTP** – see section 2.1
- **through SMPP** – see section 2.2

Or you can use any of our readymade products to receive text messages:

- **through RoutoMessaging Desktop SMS Software** - see section 2.3
- **through Web SMS Interface - Command Centre** – see section 2.4

2.1 Receiving SMS over Long numbers through HTTP

This method is easy to implement and is useful for the customers who want to avoid carrier grade protocols.

The SMS Gateway delivers all of the received messages to the URL specified by the customer. To receive the messages through the HTTP protocol, the customer should provide the SMS Gateway with an URL linked to the script, which will accept the incoming messages. Please contact our [Support team](#) and provide them with the HTTP call back URL to set up the service for you.

In case the initial attempt to deliver these messages fails, the SMS Gateway will make another 3 consecutive attempts to resend the data.

In case all 4 attempts are unsuccessful, the process ends. All the requests will be sent as an HTTP POST request and the SMS Gateway will expect to receive a valid HTTP response in order to confirm the delivery.

The format of this request will be as follows:

http://www.domain.com/cgi-bin/script.php?user=username&pass=password&dcs=0&org=originator_number&dest=destination_number&message=message_text

The table below explains each of the available parameters:

Parameter	Description
user	the customer's RoutoMessaging account username
pass	the customer's RoutoMessaging account password
dcs	the DCS settings of the message (usually '0')
org	the number the message was sent from (originating number)
dest	the long number allocated to the client account; this value will remain constant
message	the message text

Table 2: Long numbers parameters

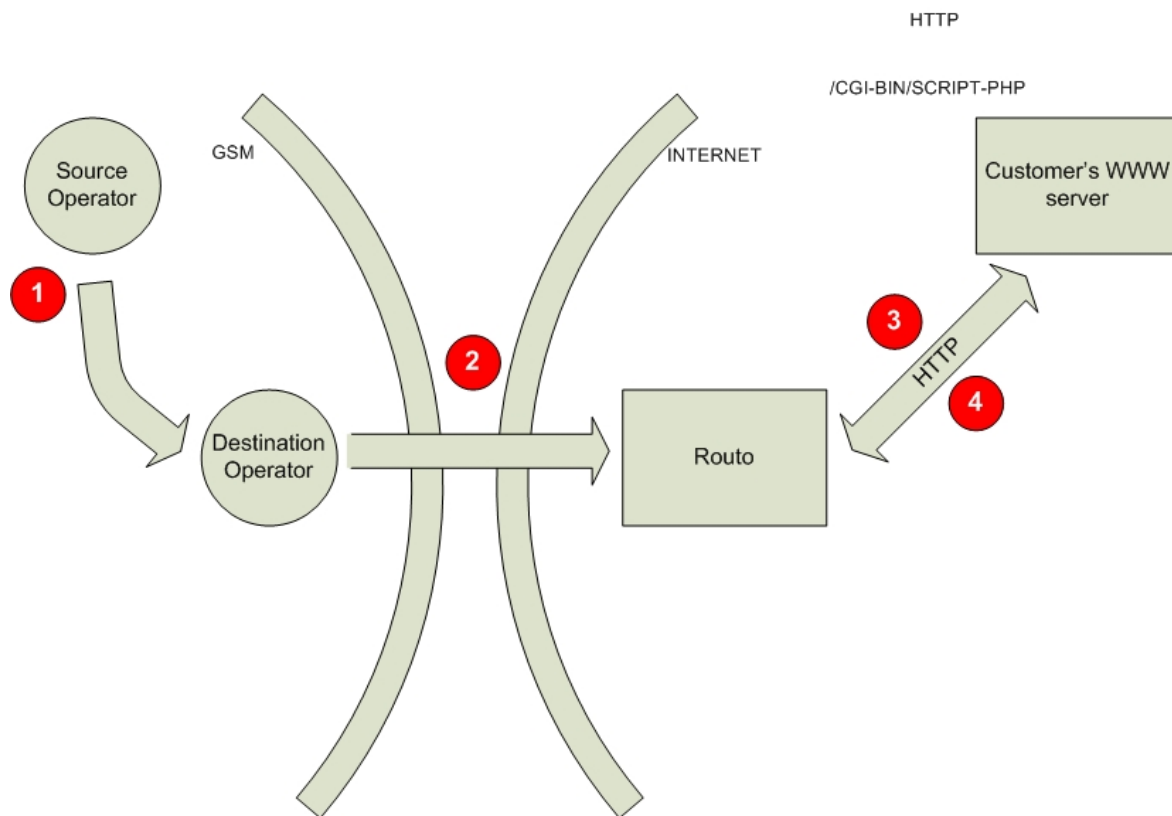


Figure 1: The procedure for receiving messages sent to long number through HTTP protocol

- **Step 1** the end-user's mobile handset sends a message to the long incoming number
- **Step 2** the destination operator receives the message and forwards it to the SMS Gateway
- **Steps 3 and 4:** once the message is received, RoutoMessaging will issue an HTTP POST request to the customer's URL
- **(Step 3)** the script should process this request and return a valid HTTP header (Step 4).

In case all of these steps were successfully completed, the SMS Gateway will consider the message as being delivered.

The user's username and password have been used to:

1. authenticate the HTTP request
2. authenticate the customer as a valid SMPP receiver

If necessary, RoutoMessaging can also issue an HTTPS request to the customer.

Please contact our Support team and provide them with the callback URL to which messages will be forwarded.

2.1.1 PHP Example

The following snippet demonstrates the PHP code for receiving long numbers.

```
<?php
$user=$_REQUEST["user"];
$pass=$_REQUEST["pass"];
$org=$_REQUEST["org"];
$dest=$_REQUEST["dest"];
$dcs=$_REQUEST["dcs"];
$msg=$_REQUEST["message"];
$file_name = fopen("/tmp/incoming.txt","a+");
fwrite($file_name, "[" . date("d:m:Y:H:i:s") . "]: $username\n");
fwrite($file_name, "$user\t$pass\t$org\t$dest\t$dcs\t$msg\n");
fwrite($file_name, "-----\n");
fclose($file_name);
?>
```

Snippet 1: PHP example

2.1.2 ASP Example

The following snippet demonstrates the ASP code for receiving long numbers.

```
<%
dim username,pass,dcs,org,dest,message
dim fs,tfile
dim ctime,cdate
user = Request.Form("user")
pass = Request.Form("pass")
dcs = Request.Form("dcs")
org = Request.Form("org")
dest = Request.Form("dest")
message = Request.Form("message")
cdate = Date
ctime = time
set fs=Server.CreateObject("Scripting.FileSystemObject")
set tfile=fs.OpenTextFile(server.MapPath("files")+"\incoming.txt",8,true)
tfile.WriteLine(cdate+ctime)
tfile.WriteLine(org+vbtabs+dest+vbtabs+message+vbtabs+dcs)
tfile.WriteLineBlankLines(1)
tfile.Close
%>
```

Snippet 2: ASP example

2.2 Receiving SMS over Long numbers through SMPP

The SMPP is a robust industry protocol, which allows higher traffic volumes and better connectivity maintenance. It is possible to receive messages through this protocol by connecting as a valid SMPP v3.4 receiver.

Please note that this service will accept only receiver connections (Rx) and not Transmitter (Tx) or Transceiver (TRx) connections.

Once you have registered for an account please contact your account manager to allocate a Long number.

Important note: this service requires dedicated account credentials, and once gained, the customer will be provided with the required connectivity details.

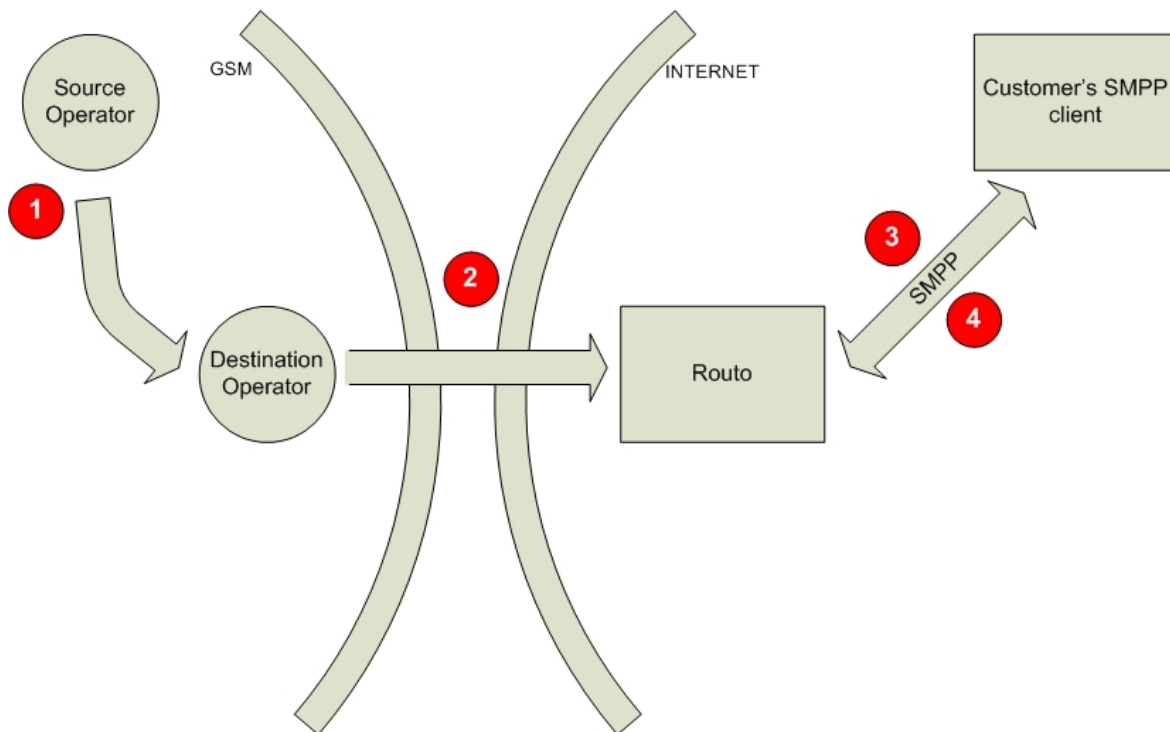


Figure 2: The procedure for receiving messages sent to long number through SMPP protocol

The following are the steps for receiving the message through the SMPP protocol:

- **Step 1:** a text message will be originated and sent to your incoming number
- **Step 2:** this message will be accepted by the destination operator and sent to the SMS Gateway. Once the message is received, the SMS Gateway will store it in a local cache, and wait for the customer to connect as a valid SMPP receiver
- **Step 3:** If the customer is already connected, the SMS Gateway will issue the SMPP command 'deliver_sm' to the customer's SMPP client
- **Step 4:** after processing this request the customer should reply with a valid SMPP response – 'deliver_sm_resp' Once the SMS Gateway receives this response, it will consider the message as being delivered.

2.3 RoutoMessaging Desktop SMS Software – Easy Messenger

The RoutoMessaging Desktop SMS Sender is a desktop application for sending and receiving SMS directly from PC, which has an integrated feature for two way messaging allowing full interaction between our clients and their customers.

This functionality is possible because the Desktop SMS Software already has embedded Long Number which can be used immediately. The screenshot below demonstrates the Desktop SMS Software interface.

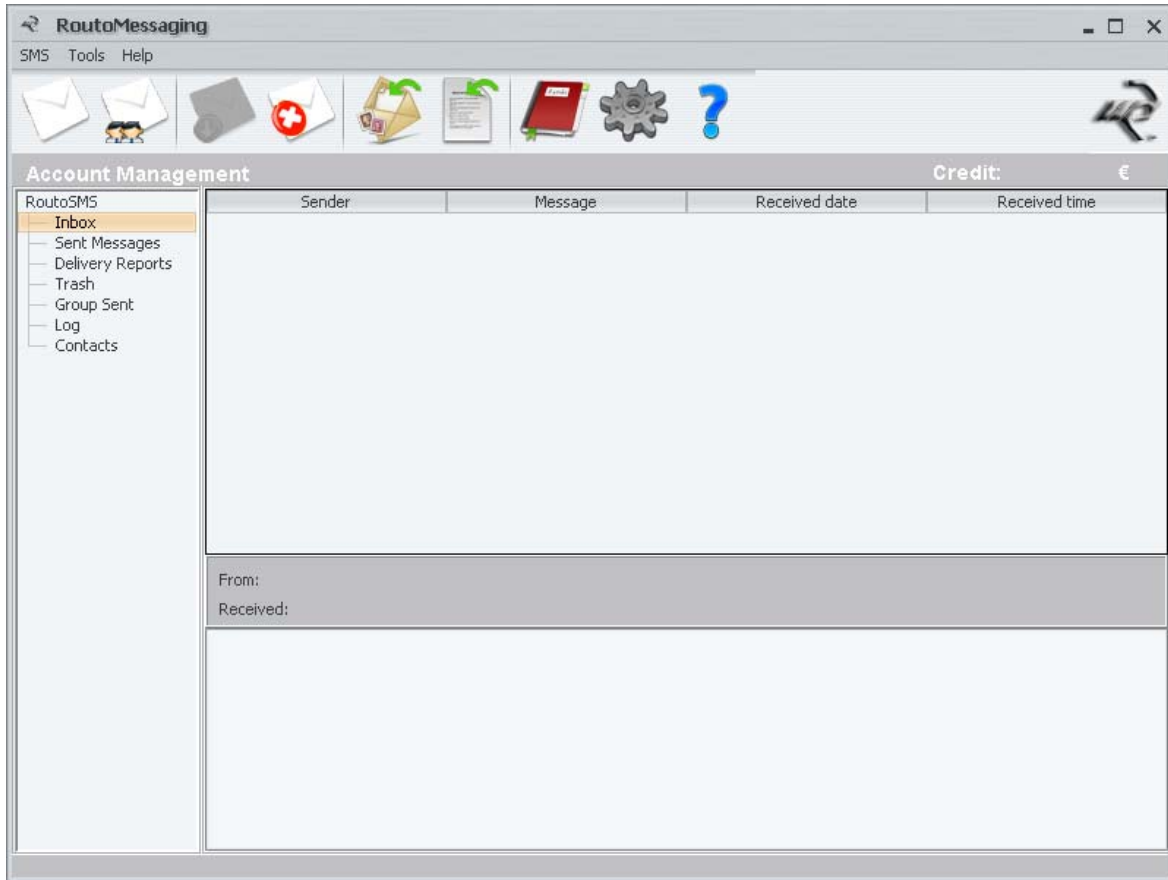


Figure 3: RoutoMessaging Easy Messenger Desktop SMS Software

You can download the Easy Messenger Desktop SMS Software from the following URL:
<http://www.routomessaging.com/sms-downloads.pmx>

2.4 RotoMessaging Web SMS Sender – Command Centre

The RotoMessaging Web SMS also known as the Command Centre is a web interface for sending and receiving SMS messages using any Web browser and Internet connection.

You can test reply service with the Long number we provided within Command Centre to ensure everything works as you need, while all received messages will be shown on the screen.

To have a dedicated number for receiving messages from mobile users you need to purchase a Virtual Mobile Number. After renting Long number/s, service can be used immediately and all received messages will appear into your SMS Inbox. Learn more about [Virtual Mobile Numbers](#).

The screenshot below demonstrates the SMS Inbox within Command Centre interface for sending and receiving messages with delivery reports.

The screenshot displays the RotoMessaging Web SMS interface. At the top, there is a navigation bar with buttons for Home, Administration, Send SMS, Send MMS, HLR Tools, SMS Inbox, Connectivity, My Accounts, and Help. The main content area is titled 'Message Inbox' and features a message icon. Below the icon, there is a prompt: 'Select a Virtual Mobile Number to view messages received for that number.' A dropdown menu is set to '447781470665 (Test number)'. Below this, it states 'Total 2 results. Displaying page 1 of 1'. A table with columns SENDER ID, MESSAGE, DATE, TIME, and SELECT is shown. The table contains two rows of message data. Below the table, there is a 'Move to trash' link and a 'Click on Message to Reply' prompt. At the bottom, there is an option to 'Export this report as CSV' with a CSV icon.

SENDER ID	MESSAGE	DATE	TIME	SELECT
381605019606	milly hel ...	2011-12-02	11:08:30	<input type="checkbox"/>
Kenneth	milly hi, ...	2011-12-02	11:14:23	<input type="checkbox"/>

Figure 4: RotoMessaging Web SMS interface - Command Centre

3 Contact us

For further technical information please contact:

- our **24/7 support team** through real time live chat at <http://www.routomessaging.com>
- send an email to our **Technical Support**: support@routotelecom.com
- or contact our **Sales Department** at sales@routotelecom.com for further information about renting [Virtual Long number](#)