

SMS-Gateway SMTP interface

Version 1.0.1

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1 Introduction

1.1 Summary

Only authorized users can submit SMS messages for delivery by one of the following methods:

- Internet through HTTP interface
- TCP/IP with session oriented interface
- EMI/UCP interface on TCP/IP protocol
- Via Email
- File Upload (through the Control Panel)

The following conditions must be met to enable SMS delivery:

- Existing user account with the authentication details (Username and Password)
- SMS Credits

In this technical document we illustrate as it's possible to use our SMS Gateway through the SMTP interface.

2 Technical Specifications

2.1 SMS Gateway

In order to transmit delivery requests to our systems through the SMTP interface, the custom application needs to establish a network connection with our SMS Gateway.

Connection details:

- Min Host: **smtp.smsitaly.com**
- Server port: **25**

Through the software Telnet, we open a TCP connection:

```
>telnet smtp.smsitaly.com 25 + CR + LF
```

The SMTP Server will answer with:

```
>220 Service ready. Connection xxx with [IP ADDRESS]
```

2.2 Commands

The SMTP interface use the base commands present on the document RFC0821 (<http://www.ietf.org/rfc/rfc0821.txt>):

- EHLO
- AUTH
- AUTH LOGIN USERNAME
- AUTH LOGIN PASSWORD
- MAIL FROM
- RCPT TO
- DATA
- NOOP
- RSET
- QUIT

The first command is **EHLO**:

```
>Ehlo Client + CR + LF
```

The SMTP Server will answer with:

```
250-Requested okay, completed + CR + LF
```

```
250-ENANCEDSTATUSCODES + CR + LF
```

```
250-AUTH=LOGIN + CR + LF
```

2.2.1 Authentication (AUTH LOGIN USERNAME and PASSWORD)

The SMTP Server require the Authentication (BASIC), so the client needs to send the command **EHLO** instead of **HELO**, in this way the command **AUTH LOGIN** will be allowed.

For the authentication, the client send Username and Password:

>**Auth Login** + CR + LF

The SMTP Server will answer with:

>**334 VXNlcm5hbWU6** + CR + LF

(the SMTP server requires the Username encoded in BASE64)

The client send the Username encoded in BASE64

>**bXl1c2VyaWQ=** + CR + LF

(with the example, we used the string "myuserid" encoded)

The SMTP Server will answer with:

>**334 UGFzc3dvcmQ6** + CR + LF

(the SMTP server requires the Password encoded in BASE64)

The client send the Password encoded in BASE64

> **bXlwYXNzd29yZA==** + CR + LF

(with the example, we used the string "mypassword" encoded)

The SMTP Server will answer with:

>**235 [CREDITS AVAILABLE] ID ACCOUNT: [ID] STATUS: [CURRENT STATUS]** + CR + LF

Now the Account is authorized to send the message.

2.2.2 Sender ID (MAIL FROM)

The Sender Id is submitted through the command **MAIL FROM**. It may be a numeric string (max 16 digits) or alphanumeric (max 11 characters).

Submit the Sender ID:

>**Mail From: +393331234567** + CR + LF

(with the example we are using a numeric string)

The SMTP Server will answer with:

>**250 +393331234567 ...Sender Ok** + CR + LF

2.2.3 Recipient (RCPT TO)

The recipient number of the messages is submitted through the command **RCPT TO**. It may be a string length minimum 10 and max 16 digits, and it must to be formatted in Country Code+Gsm Code+Number:

- Country Code, example +44 for UK (or 0044, or just 44);
- Gsm Code, example Vodafone 7733
- Phone Number, example 1234567

Submit the recipient:

>Rcpt To:+4477331234567 + CR + LF

The SMTP Server will answer with:

>250 +4477331234567 ...Recipient Ok + CR + LF

2.2.4 SMS Message (DATA)

Through the command **DATA**, the client can submit the text message (max length 160 characters). The client send the request to the SMTP Server:

>Data + CR + LF

The SMTP Server will answer with:

354 Enter Text Message, end with <CRLF>".." <CRLF> + CR + LF

now the client is allowed to submit the text, with the following sequence to the end of the string:

Carriage Return + Line Feed + Un Punto + Carriage Return + Line Feed

Example:

>Test SMS message via SMTP + CR + LF

>. + CR + LF

The SMTP Server will answer with:

>Message accepted for delivery to: +4477331234567 + CR + LF

When the message has been accepted, the client can shutdown the connection with the command

>Quit + CR + LF

The SMTP Server will answer with:

>221 SMSC SMTP Server closing connection. + CR + LF

3 SMS with Email Client (example Ms Outlook™)

3.1 Email Client Configuration

Of course, through the SMTP interface it's possible to send the sms using a simple Email Client. In this case the user needs to set up the Account with the connection parameters (above mentioned), Username and Password.

3.1.1 Impostazione Connessione al Server SMTP


With Ms Outlook™ the user set the Ip Address (smtp.smsitaly.com) as below:



The screenshot shows the 'Internet Connection Wizard' dialog box, specifically the 'E-mail Server Names' step. The window title is 'Internet Connection Wizard' and it has a close button in the top right corner. The main title of the step is 'E-mail Server Names'. Below the title, there is a dropdown menu set to 'POP3' with the text 'My incoming mail server is a POP3 server.' Below this, there is a text input field labeled 'Incoming mail (POP3 or IMAP) server:' with the placeholder text 'Type here your POP3 Server'. Further down, there is another text input field labeled 'Outgoing mail (SMTP) server:' with the text 'smtp.smsitaly.com' entered. At the bottom of the dialog, there are four buttons: '< Back', 'Next >', 'Cancel', and 'Help'.

3.1.2 Authentication

In order to send the Authentication, the username and password must to be submitted. Click on My Server Requires Authentication and click on Settings:



The screenshot shows the "SMSC SMTP Properties" dialog box with the "Servers" tab selected. The "Server Information" section indicates the incoming mail server is a POP3 server. The "Incoming Mail Server" section includes fields for "Incoming mail (POP3)", "Outgoing mail (SMTP)", "Account name", and "Password", along with checkboxes for "Remember password" and "Log on using Secure Password Authentication". The "Outgoing Mail Server" section has a checked checkbox for "My server requires authentication" and a "Settings..." button. At the bottom are "OK", "Cancel", and "Apply" buttons.

SMSC SMTP Properties

General Servers Connection Advanced

Server Information

My incoming mail server is a POP3 server.

Incoming mail (POP3): Type here your POP3 server

Outgoing mail (SMTP): smtp.smsitaly.com

Incoming Mail Server

Account name: Type here your POP3 Account

Password: xxxxxxxxxxxx

Remember password

Log on using Secure Password Authentication

Outgoing Mail Server

My server requires authentication Settings...

OK Cancel Apply

3.1.3 Username and Password

Type your Username and Password as below:



3.1.4 Sending

In order to send the message through the Email Client, the recipient must to be formatted like **00447731234567@smtp.smsitaly.com**, and writing the text message in TEXT/PLAIN format.

