

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

>**bXI1c2VyaWQ=** + 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 has a blue title bar with the text 'Internet Connection Wizard' and a close button. The main area is light beige and contains the following text and controls:

- At the top right, there is a mouse cursor icon pointing at a star.
- The text reads: 'My incoming mail server is a server.'
- Below this, it says: 'Incoming mail (POP3 or IMAP) server:' followed by a text input field containing 'Type here your POP3 Server'.
- Next, it says: 'An SMTP server is the server that is used for your outgoing e-mail.'
- Below this, it says: 'Outgoing mail (SMTP) server:' followed by a text input field containing 'smtp.smsitaly.com'.
- At the bottom, 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 (POP3)" field is empty, and the "Outgoing mail (SMTP)" field contains "smtp.smsitaly.com". The "Incoming Mail Server" section has an "Account name" field with the placeholder "Type here your POP3 Account" and a "Password" field with asterisks. The "Remember password" checkbox is checked, and the "Log on using Secure Password Authentication" checkbox is unchecked. The "Outgoing Mail Server" section has the "My server requires authentication" checkbox checked, and a "Settings..." button is visible next to it. At the bottom of the dialog are "OK", "Cancel", and "Apply" buttons.

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.

