

# SMSPortal

## SMS-Gateway SMTP interface

Version 1.0.0

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# SMSPortal

## 1 Introduction

### 1.1 Summary

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

- Internet through HTTP 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.

# SMSPortal

## 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: **212.131.251.13**
- Server port: **25**

Through the software Telnet, we open a TCP connection:

```
>telnet 212.131.251.13 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
```

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## 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: +3933312345678** + CR + LF

*(with the example we are using a numeric string)*

The SMTP Server will answer with:

>**250 +3933312345678 ...Sender Ok** + CR + LF

# SMSPortal

## 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 7589951

Submit the recipient:

**>Rcpt To:+44477337589951** + CR + LF

The SMTP Server will answer with:

**>250 +44477337589951 ...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: +44477337589951** + 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

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## 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 (212.131.251.13) as below:



**Internet Connection Wizard**

**E-mail Server Names**

My incoming mail server is a **POP3** server.

Incoming mail (POP3 or IMAP) server:  
Type here your POP3 Server

An SMTP server is the server that is used for your outgoing e-mail.

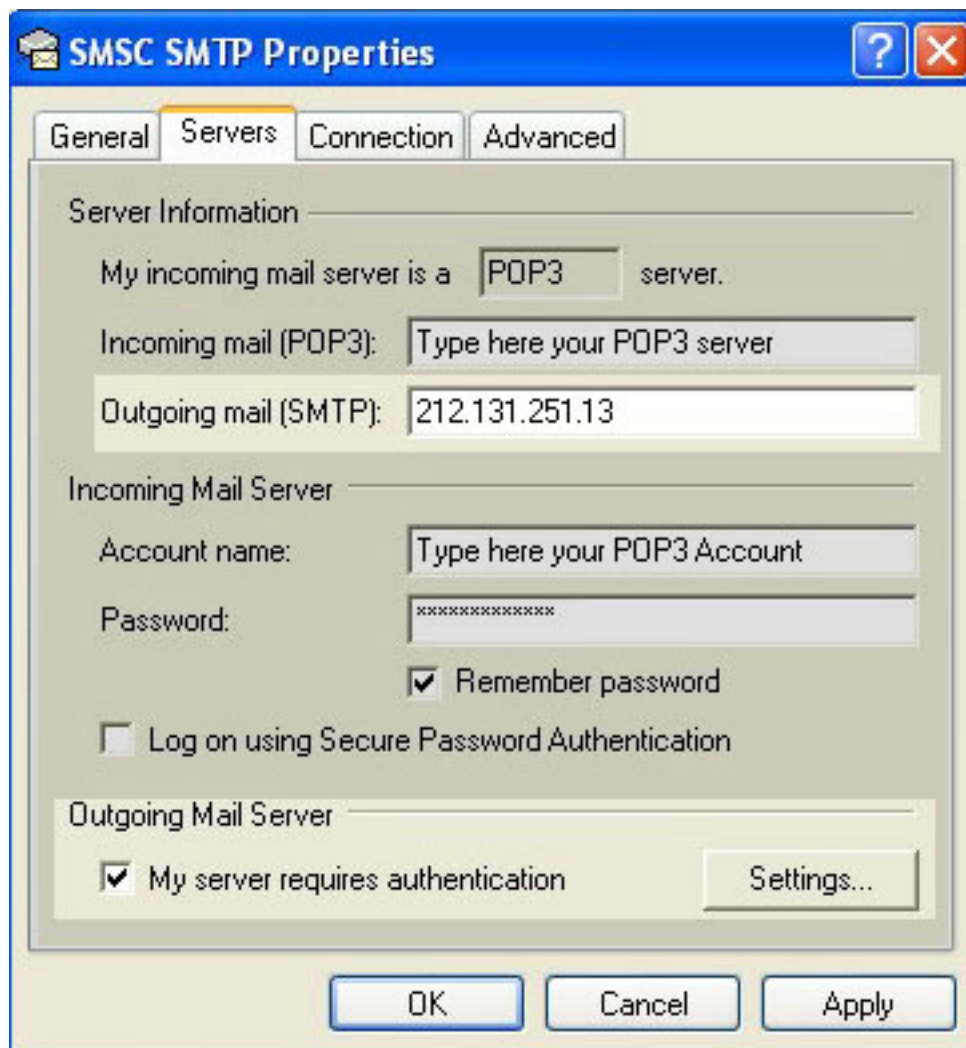
Outgoing mail (SMTP) server:  
212.131.251.13

< Back   Next >   Cancel   Help

# SMSPortal

## 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 dialog has four tabs: "General", "Servers", "Connection", and "Advanced".

**Server Information**

My incoming mail server is a  server.

Incoming mail (POP3):

Outgoing mail (SMTP):

**Incoming Mail Server**

Account name:

Password:

Remember password

Log on using Secure Password Authentication

**Outgoing Mail Server**

My server requires authentication

At the bottom of the dialog are three buttons: "OK", "Cancel", and "Apply".

# SMSPortal

## 3.1.3 Username and Password

Type your Username and Password as below:



**Outgoing Mail Server**

Logon Information

Use same settings as my incoming mail server

Log on using

Account name:

Password:

Remember password

Log on using Secure Password Authentication

OK Cancel

## 3.1.4 Sending

In order to send the message through the Email Client, the recipient must to be formatted like **004477337589951@212.131.251.13**, and writing the text message in TEXT/PLAIN format.



**Test SMS - Messaggio (Testo normale)**

File Modifica Visualizza Inserisci Formato Strumenti Azioni ?

Invia [Icons] Opzioni... ?

A...

Cc...

Ccn...

Oggetto: