

SMS-Gateway SMTP interface

Version 1.0.0

©2004-2008 SMSPortal

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
```

SMSPortal

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: +3519612345678** + CR + LF

(with the example we are using a numeric string)

The SMTP Server will answer with:

>**250 +3519612345678 ...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 +351 for Portugal (or 00351, or just 351);
- Gsm Code, example Vodafone 91
- Phone Number, example 1234567

Submit the recipient:

```
>Rcpt To:+351911234567 + CR + LF
```

The SMTP Server will answer with:

```
>250 +351911234567 ...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: +351911234567 + 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
```

SMSPortal

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

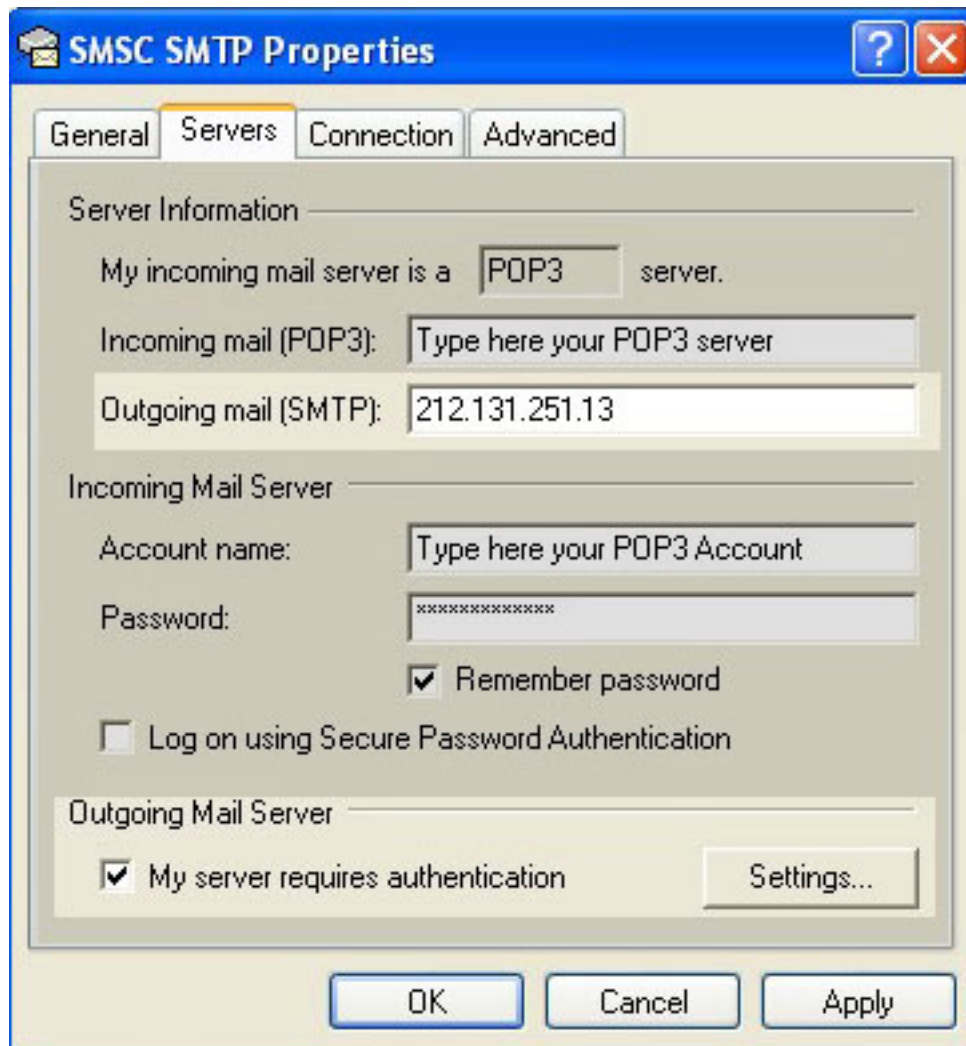
An SMTP server is the server that is used for your outgoing e-mail.
Outgoing mail (SMTP) server:
212.131.251.13

< 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 image shows a Windows-style dialog box titled "SMSC SMTP Properties". It has four tabs: "General", "Servers", "Connection", and "Advanced". The "Servers" tab is selected. The dialog is divided into three sections: "Server Information", "Incoming Mail Server", and "Outgoing Mail Server".

- Server Information:** A dropdown menu shows "POP3" selected, followed by the text "server.". Below it are two text input fields: "Incoming mail (POP3):" with the placeholder "Type here your POP3 server" and "Outgoing mail (SMTP):" with the value "212.131.251.13".
- Incoming Mail Server:** Contains "Account name:" with the placeholder "Type here your POP3 Account", a "Password:" field with masked characters "xxxxxxxxxxxx", and a checked checkbox "Remember password". There is also an unchecked checkbox "Log on using Secure Password Authentication".
- Outgoing Mail Server:** Contains a checked checkbox "My server requires authentication" and a "Settings..." button.

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 **00351911234567@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:

Hello, this is a test message