

SMS-Mail server SW app

SMS-Mail is a SMTP and POP3 server which collaborates with Alphatech GSM gateways.

It transforms SMS text messages into e-mails and e-mails into SMS text messages.

Components of SMS-Mail system :

- GSM gateway
- Data connection between GSM gateway and PC
- PC with Windows (NT, XP, Vista, 7, 8 ...) operational system
- SW program SMS_Mail
- Program for receiveing and sending e-mails (Outlook, Thunderbird ...)
- PC network (LAN)
- Other PCs with programs for receiveing and sending e-mails

What does it serve? What's the use of SMS-Mail?

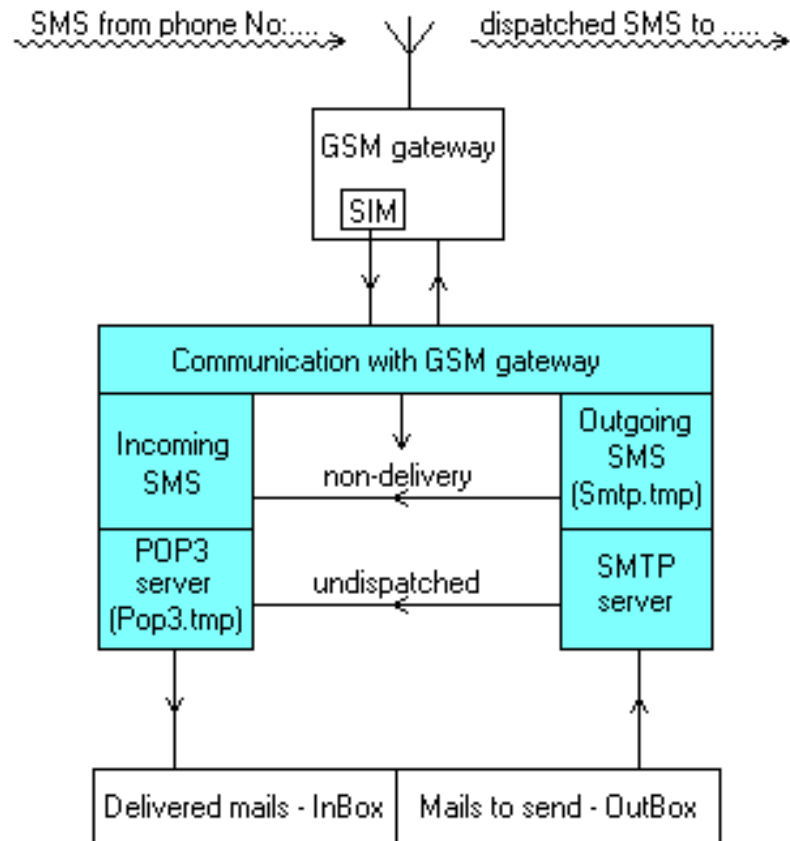
- Exploits GSM gateway not only for calls but also for receiving and sending text SMS messages
- Integration of SMSs and e-mails into one system
- Easy way of sending and receiving bulk batches of SMSs
- Automatization
- Security

Who can use it?

- Companies and enterprises
- Municipal offices
- Firms sending offers and advertisements
- Any other users requiring sending/receiving text messages

Block schema of information processing in system

Sms-Mail as SMTP, POP3 server



SMS Mail – connection of different systems

- SMS – short, simple text message
- Telephone number – the particular telephone
 >>> x <<<
- E-mail body – universal container for data transfer
- E-mail address – e-mail client - program

Two different systems that are to be connected and data transferred.

SMS mail – connection with surroundings



- To GSM gateway – protocols for transfer of SMSs
 - Depends on type of gateway and way of connection



- To e-mail – SMTP and POP3 protocols
 - Server collaborating with e-mail clients
 - Adjusted for LAN net
 - Use of PC`s names in the net
 - Simplified communication regarding SMSs

What is e-mail client?



Program, which connects as a client to a SMTP and POP3 server – i.e. to the SMS-Mail program.

Types of e-mail clients, e.g.:

- Outlook express
- Windows Live Mail
- Outlook 2007, 2010...
- Thunderbird
- Etc...

Setting e-mail client



- For SMS-Mail, it is necessary to set an account in the client
- In the account, it is necessary to set SMTP and POP3 servers
- Address of the servers for work with SMSs is the address of the PC, in which SMS-Mail is running
- Other settings can be left unchanged or are not so important

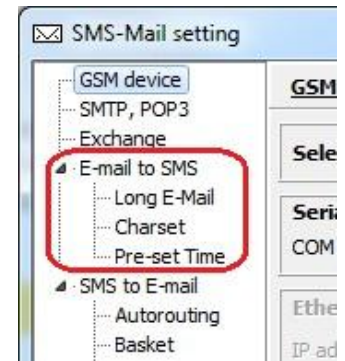
SMS mail – internal inter-connection

Inter-connection of the section for SMSs with the section for e-mails

- Periodical data transfer between both sections
- Temporary data saving in files
- Common readable data format

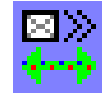
Transfer e-mail -> SMS

- Detection whether it is possible to transfer e-mail into SMS
- Detection of telephone number
- Checking and adjusting of e-mail length
- Detection of charset and characters conversion
- Option to set time of sending



If any step fails, e-mail is returned to the sender

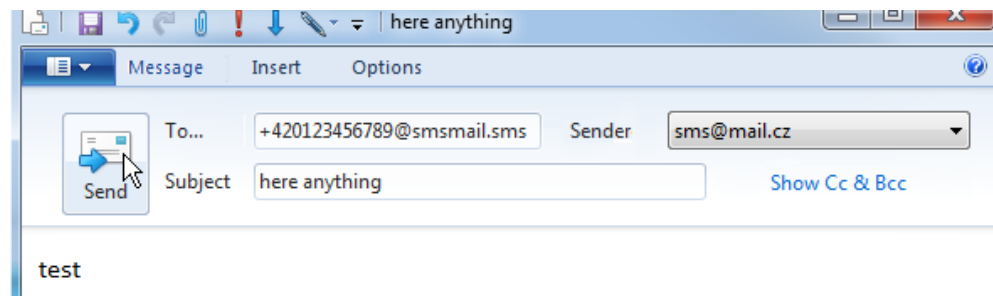
Example of transfer e-mail -> SMS



To whom - +123456789@smsmail.sms

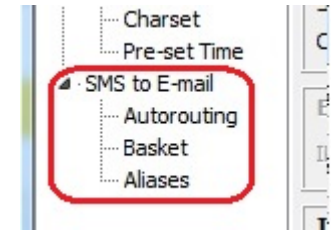
E-mail body- simple text

- +123456789 – telephone number
- smsmail.sms – anything, what can pass through the program for mail sending (e-mail client)
- Simple text - is transferred to the shape for mobile phone



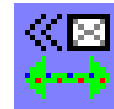
Transfer SMS -> e-mail

- Transfer of telephone number to e-mail address
- Transfer of SMS text to e-mail text
- Routing SMS to PCs in the net
 - Automatic – received by the sender
 - SMS routed to the particular PC
 - Option to deliver to all PCs or to just one PC
- Option of routing with an aid of PC aliases



Example of transfer SMS -> e-mail

- Telephone number – identification of the sender
- Text of SMS – any text



- Telephone number is transferred to the shape +123456789@smsmail.sms
- Received text of SMS is transferred to e-mail body.
- E-mail is transmitted to the particular PC according to set routing rules.

Replacement address - telephone

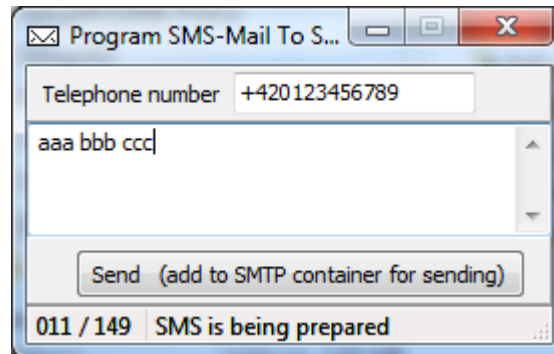
- At receiving and sending e-mail, an ordinary e-mail address can be used
- Possible to define the table of relations e-mail address x telephone number
- If the replacement function is switched on
 - Possible to send SMS to e-mail address
 - Possible to receive SMS and to re-send it further using e-mail address instead of telephone number

Sending SMS without e-mail client

Window called from lower status bar

Main use:

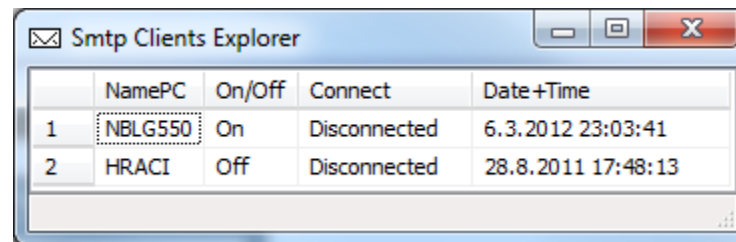
- For program launching (start)
- For testing of communication with GSM gateway



Check of e-mail clients

Window called from lower status bar

- Detection whether a client communicates
- Option to disconnect or switch off a client
- Detection when and who was connected last



The screenshot shows a window titled "Smtplib Clients Explorer" with a table containing the following data:

	NamePC	On/Off	Connect	Date+Time
1	NBLG550	On	Disconnected	6.3.2012 23:03:41
2	HRACI	Off	Disconnected	28.8.2011 17:48:13

Data buffers

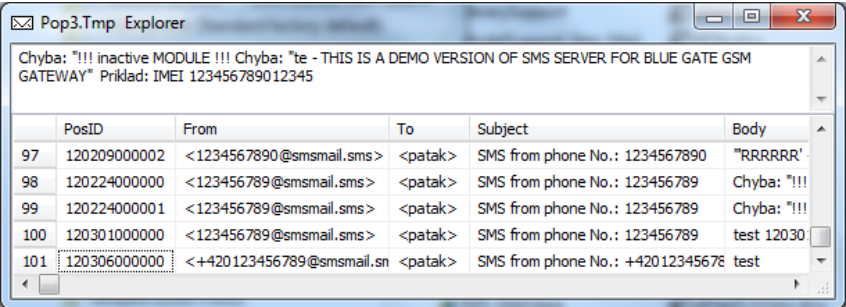
File SMTP.tmp

- SMSs waiting for sending

File POP3.tmp

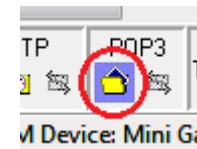
- SMSs waiting for release to e-mail clients

The files can be browsed by the program and are readable for text browsers.



Chyba: "!!! inactive MODULE !!! Chyba: "te - THIS IS A DEMO VERSION OF SMS SERVER FOR BLUE GATE GSM GATEWAY" Priklad: IMEI 123456789012345

	PosID	From	To	Subject	Body
	97	120209000002 <1234567890@smsmail.sms>	<patak>	SMS from phone No.: 1234567890	"RRRRRR"
	98	120224000000 <123456789@smsmail.sms>	<patak>	SMS from phone No.: 123456789	Chyba: "!!!
	99	120224000001 <123456789@smsmail.sms>	<patak>	SMS from phone No.: 123456789	Chyba: "!!!
	100	120301000000 <123456789@smsmail.sms>	<patak>	SMS from phone No.: 123456789	test 12030
	101	120306000000 <+420123456789@smsmail.sn	<patak>	SMS from phone No.: +42012345678	test



Storage of records

The program registers messages for check

- Received e-mails are saved also in the Sntp_YYMM.txt file
- Received SMSs are saved also in the Pop3_YYMM.txt file

YY – means year, MM – means month

Records are text, occupy one row and comprise date and time, telephone number and text.

Main program window

- Start, Stop and setting
- Actual information on program activity
- Status bar with icons
- Program version

