

## **SMS-Gateway**

**The simple extension for any software application to allow the exchange of SMS messages in mobile telephone networks.**

- **Connects to mobile telephones or GSM-modems**
- **Direct connection to GSM networks provides for the fastest possible way to send and receive messages**
- **Send and receive SMS messages based on text files**
- **Forward incoming SMS messages as e-mails**
- **Send SMS-messages via e-mail**
- **Generate reports and validity periods for outgoing messages**
- **Runs as Windows service with fault tolerance**



For many software-applications the exchange of SMS messages in mobile telephone networks is an interesting additional feature. Whether sending alerts, status reports, acknowledgements or automated info service - an easy and reliable integration of SMS messaging will often provide new fields of application for your software. The receiving of messages not only allows for personal communication, but also for automated processing in your software. The range of applications includes simple data queries as well as mobile data entry or complex remote control tasks.

The SMS gateway consists of a software application that runs as windows service. The only hardware required is a GSM-modem or a mobile phone with a SIM-card of its own. This not only allows for the world-wide sending of SMS messages with a unique identity, but also for the receiving of SMS messages. Messages are exchanged directly via the network provider's Short-Message-Service-Center (SMSC), bypassing external ISDN or internet gateway servers. The direct connectivity to the GSM network results in a decidedly higher reliability and faster transmission than would be possible with external gateways.

When exchanging messages with GSM devices, binary PDU code is employed for a high degree of compatibility and control.

When sending messages, there are two different methods available. The automated processing of job files allows you to easily send simple text messages. All your application has

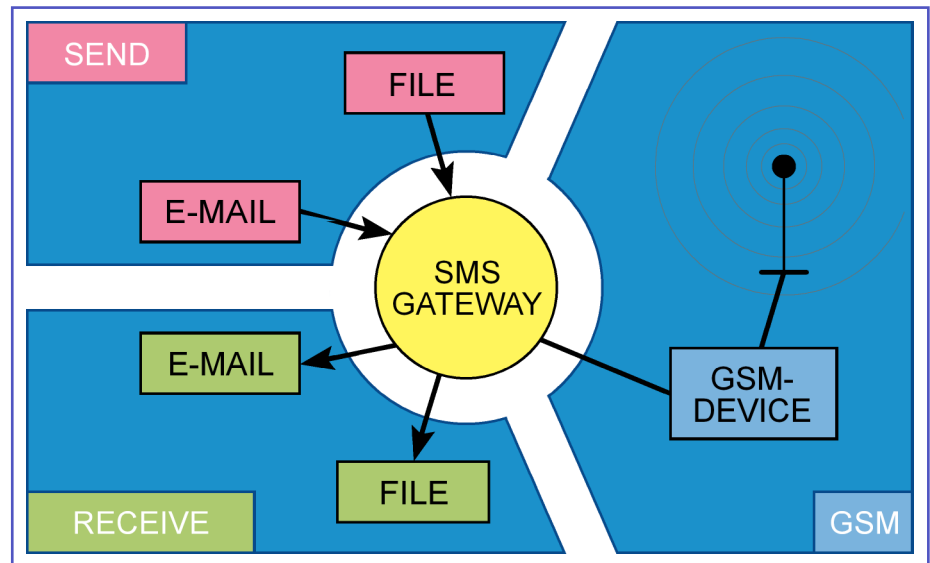
to do is generate a text file in ASCII-format and read the control file which may come with it. The job file contains the message itself and the phone number of the addressee. Optionally, you can specify a validity period for your messages and request a sending report.

Job files can also be used to read status information provided by GSM devices (signal strength, provider, network status) and services.

Along with the sending of text files, you can also send messages via e-mail. For this purpose, the gateway hosts its own SMTP-server, which extracts the addressee's phone number and the text message from the e-mails it receives and then forwards an SMS message. If requested, the sender may receive a sending report via e-mail. The design of the gateway allows you to send SMS messages per e-mail with practically any e-mail client

The messages received can be saved in an incoming messages folder. In this case, an application can periodically scan this folder for new messages and process them automatically. As an alternative, it is possible to forward an incoming SMS message via e-mail. This is achieved by forwarding an SMS message via SMTP protocol to a mail server. The e-mail contains the message, the sender, the time sent and the time received.

The installation of the gateway is just a matter of seconds. Once the hardware is installed, all you have to do is copy the program files, adjust the configuration settings and start the service. Malfunctions such as network problems, communication breakdowns or power failures of GSM-devices are recognized and handled by the software. A log file records all sending and receiving activities and logs all error messages.



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