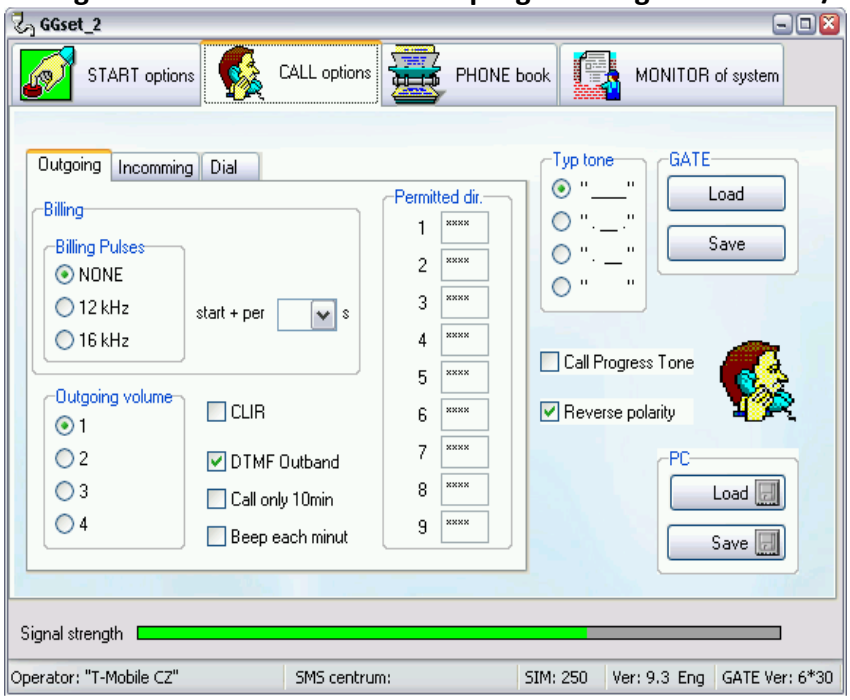
## Configuration software GG-SET for programming RUKRA GSM/PSTN Interface





### What do you need

Hardware:

- ☞ Computer Windows 7 or higher with USB connector
- ☞ RUKRA USB Interface

Software:

- ☞ GG-SET (Download from www.rukra.eu)

### Install and uninstall of the programm

Make a copy of 2 files ( with end .exe and .ini) from selected language variant on CD into some directory in your Computer. During first programm start have been created all needed files in this directory. When you copied file *.exe only the english version will be cretated.
By erasing of this directory will be uninstall programm completely.

### Installation of USB driver

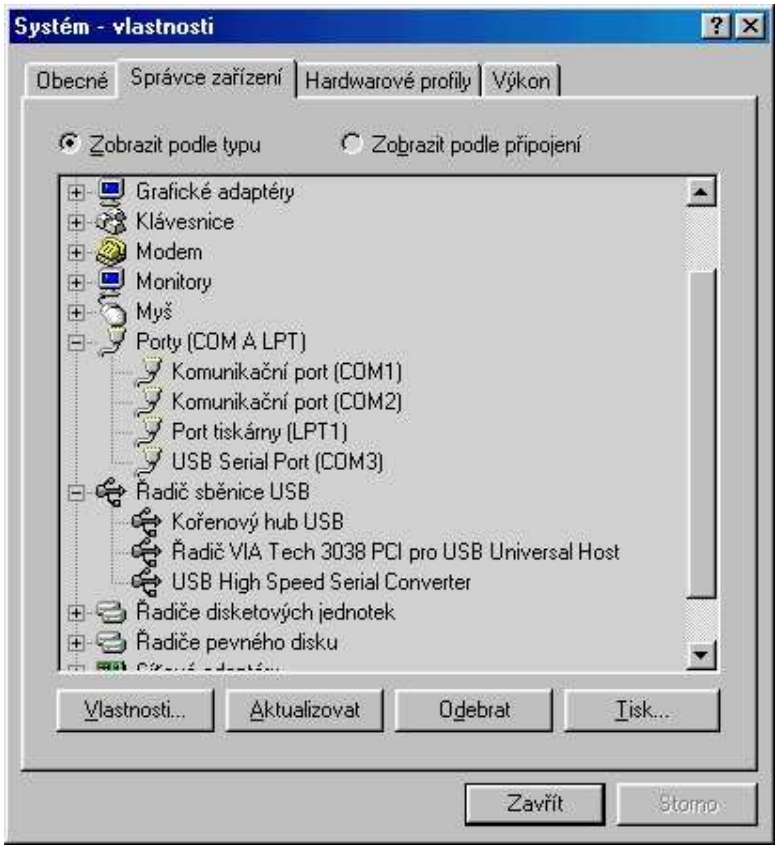
Switch ON the RUKRA GSM/PSTn Interface. Connect the interface by USB cable to the computer via the USB option (packed with unit). When is not already installed on PC appropriate USB driver (FTDI) will be shown at bar of your PC warning of new Hardware detection and start usual process of needed software installation. Select searching required sw automatically or select installation from other place. As other place select attached CD ROM and directory USB driver. Installation will be done automatically. It must be ended by announcement „ New Hardware is ready to use“.

### Setting of COM port parametres

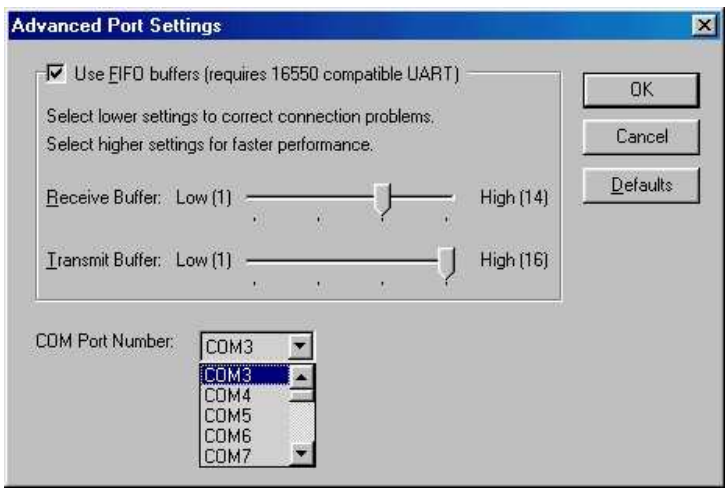
After USB driver installation you should select appropriate COM port for communication with Mini Gate. When you know your PC COM port distribution the situation is easy. Simply select during programm run ( via follow) the new one.

**Properties setting of installed COM port**

Number of COM port you can programm in Systém supervisor.
Click to "+" at line Ports. It is open submenu Ports where is at the end mention USB serial port. Select by mouse or keypad this row (USB serial port) to be marked (for example : blue) and press button „properties". In follow window select Folder "Port settings". Press button ADVANCED.

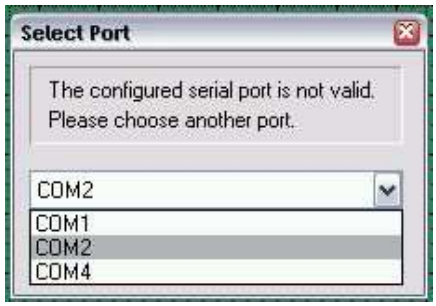



Here select number of COM port which will be used for access to aplication. (for instance select COM3 then software will communicate with aplication via port COM3). After a few OK button pressing is properties setting finished succesfully.



**Programm Start**

Start GGset programm and select appropriate COM port where is the interface connected. The program can connect to the interface, which is registered to GSM network (green LED is off, yellow LED flashing by signal strength).

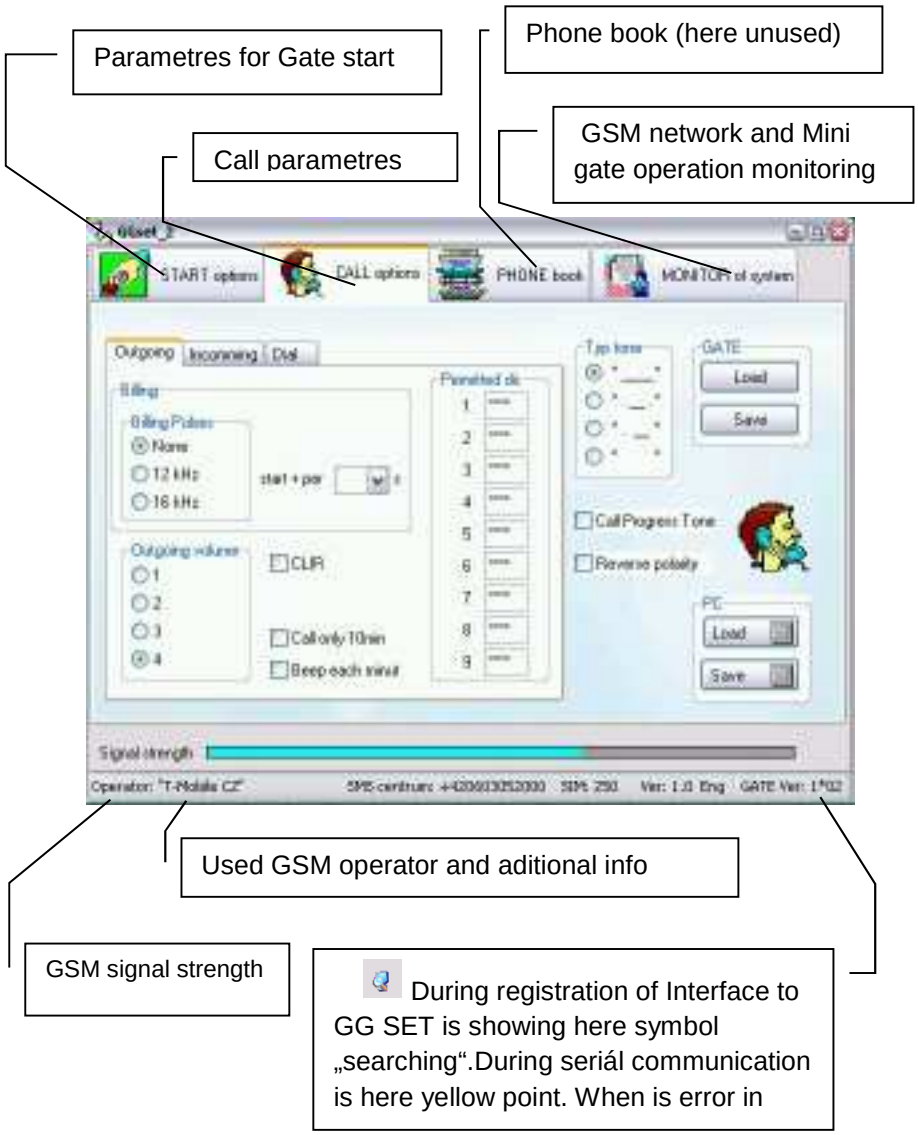



**After programm start (in active mode – via follow) Interface is blocked for calls. Incoming calls are rejected and outgoing calls get busy tone. The Interface set up new parametres until 30 seconds after GGSET ending ( Interface restart). Without exit the program, the new parameters will not be accepted!**

Bookmark and parameters displayed in the setup program vary according to Interface type. Therefore, it is always necessary to wait for login the gates to program (detection of type). The grayed elements are not available.

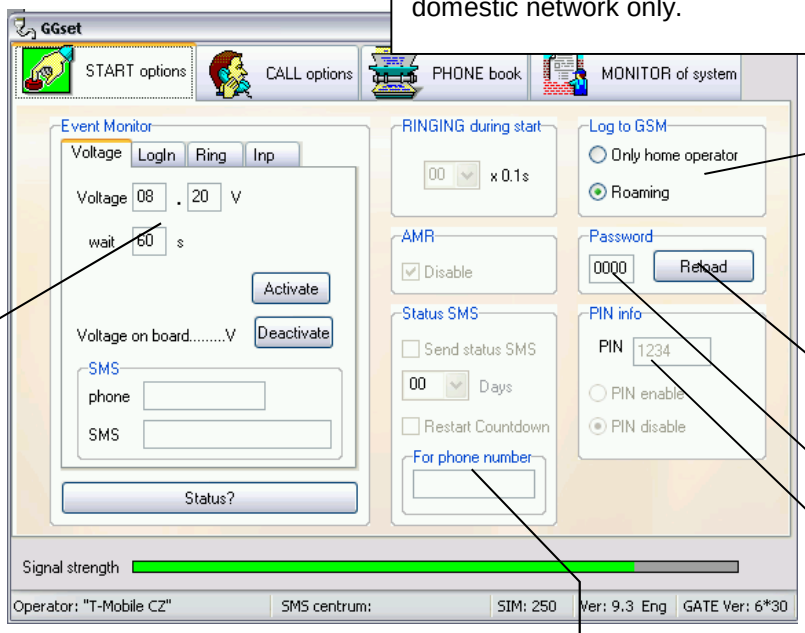
**Basic programm description**

Programm contain a few Folders (buttons) which includes similiar parametres. Under Folders is status bar display operational information about connected gate. Some parameters can be gray - inactive. They are designed for another types of gates.



## Folder START options

GSM network registration. You can allow all networks (roaming) or domestic network only.




Option
Not used in this type of Interface

PIN information. PIN and its setting is possible change only by connected analog phone after inserting password.

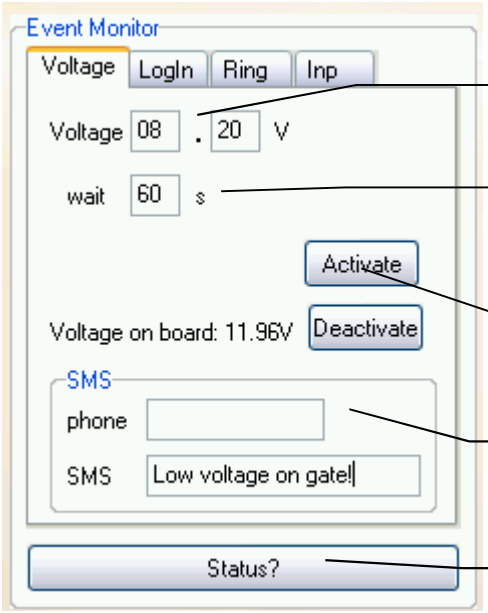
Password to access connected Gate. When is incorrect then you cant change any setting. (parametres and phone book)
Default: 0000

Command for parametres reloading when wrong password was inserted.

Panel monitor events (see next page)

**Panel event monitor**

Interface sends incurred event by set SMSs to a specified phone number.




**If the supply voltage is lower than specified.**

Adjusted voltage (8.2V)

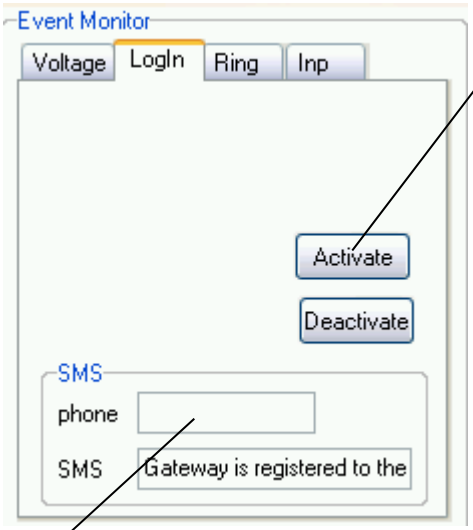
Minimum time of low voltage (60 sec.)

Activation/deactivation voltage monitoring.

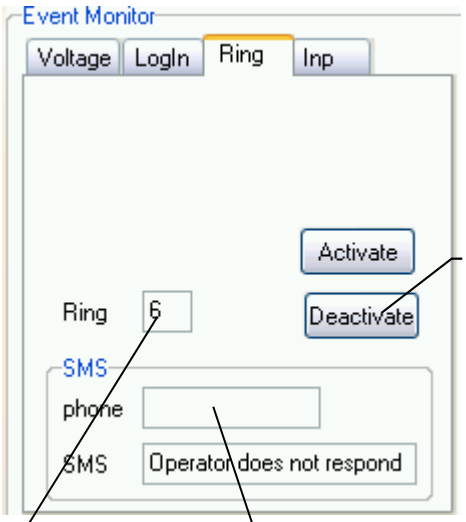
SMS and phone number to which SMS will be sent

Determining status and set of event monitor

**At the moment every time when the Interface logs into the GSM network**




Activation/deactivation monitoring of logging into the GSM network.




**If the call isn't picked up in less than the set number of rings.**

Activation/deactivation monitoring number of rings.

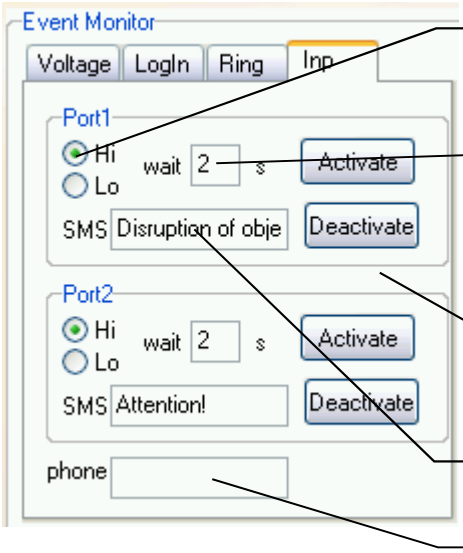
SMS and phone number to which SMS will be sent

SMS and phone number to which SMS will be sent

Number of rings

**When changing state of the Port1, Port2 (only availible on request)**

Note: necessary hw option (board inputs)




SMS by change input Hi/Lo

Necessary duration of change for sending SMS.

Activation/deactivation of Port1

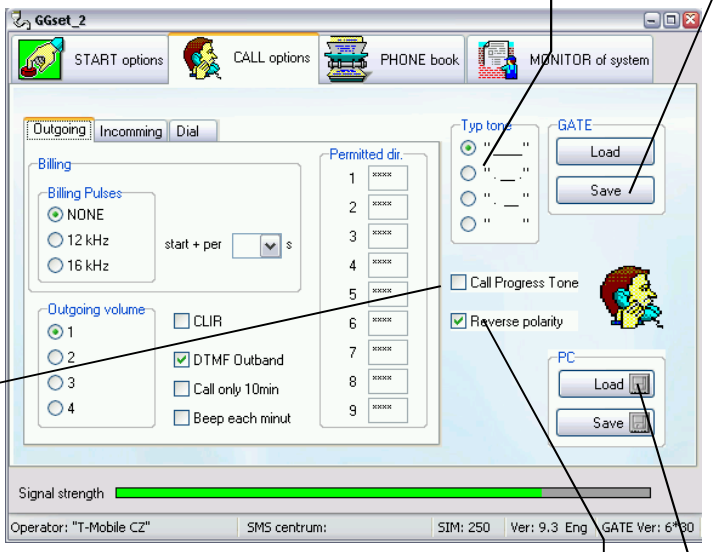
SMS of Port1

Telephone number for both ports

**Folder CALL options**

Reading and saving all parametres to Interface . It is valid also for parametres from Folder „START“. The buttons are unavailable when you insert wrong

Dial tone setting.




Activation audio information from the GSM network.
Default: off - generate local ringing tone

Polarity change during ON/OFF HOOK.
Default: OFF

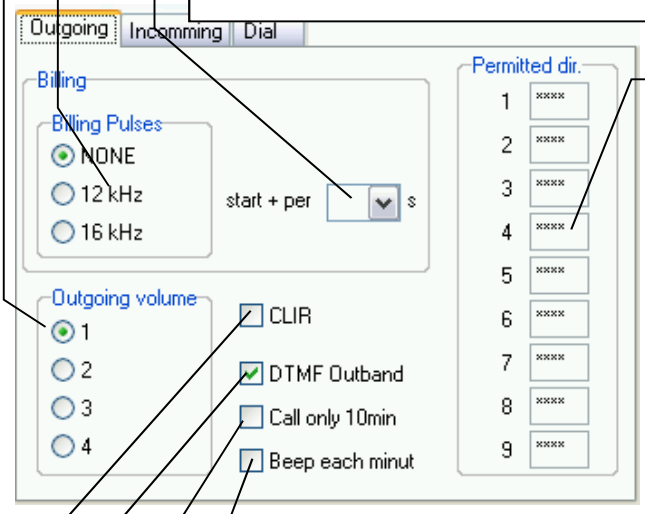
Loading and saving parametres into Computer

## Outgoing Call

Loudness in outgoing direction (1-4)

Setting of tax (billing) pulses 12 or 16 kHz
Default: OFF

When billing pulses are ON the first puls is sent when call is pick up. Further pulses may be send in preprogrammed periods
Default: 1 pulse only when call is pick up




9 memories for permitted directions

Permitted direction may be 1-4 digits of number begining.. Other numbers will get busy tones.

„*“, which means various numeral may

Beeps setting every minute to the call as notification for GSM call.

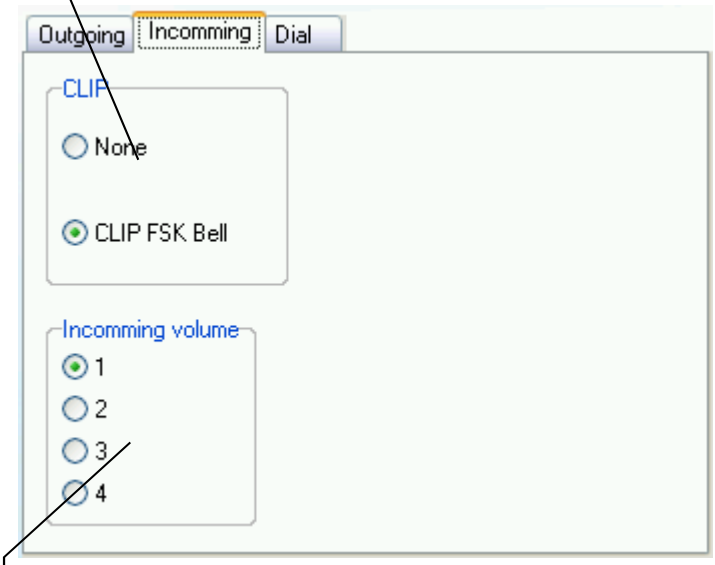
Call duration limit for 10 minutes - see manual

Method of encoding DTMF during a call – see manual

CLEAR service activation**. When you want to use it please check availability at your GSM operator.**

## Incoming Call

Activation CLIP feature.
Default: CLIP FSK Bell




Loudness in incoming direction (1-4)
Default: 1

## Dialling

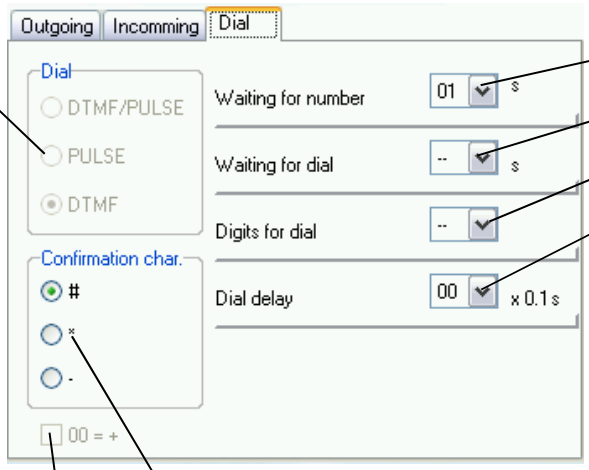
Type of detection is not for this type of Interface active

Dial delay for preprogrammed time (decimal sec 00-99)
Default: 0

Number of dialled numeral, after its is dial send immediatelly (dial completed)
Default: OFF

Waiting for dial after pick up . After time out is busy tone, eventually reverse polarity (call end)
Default: OFF

Waiting for last number (01 to 15 sec). After time out is sent out dialled number.
Default: 6 seconds.

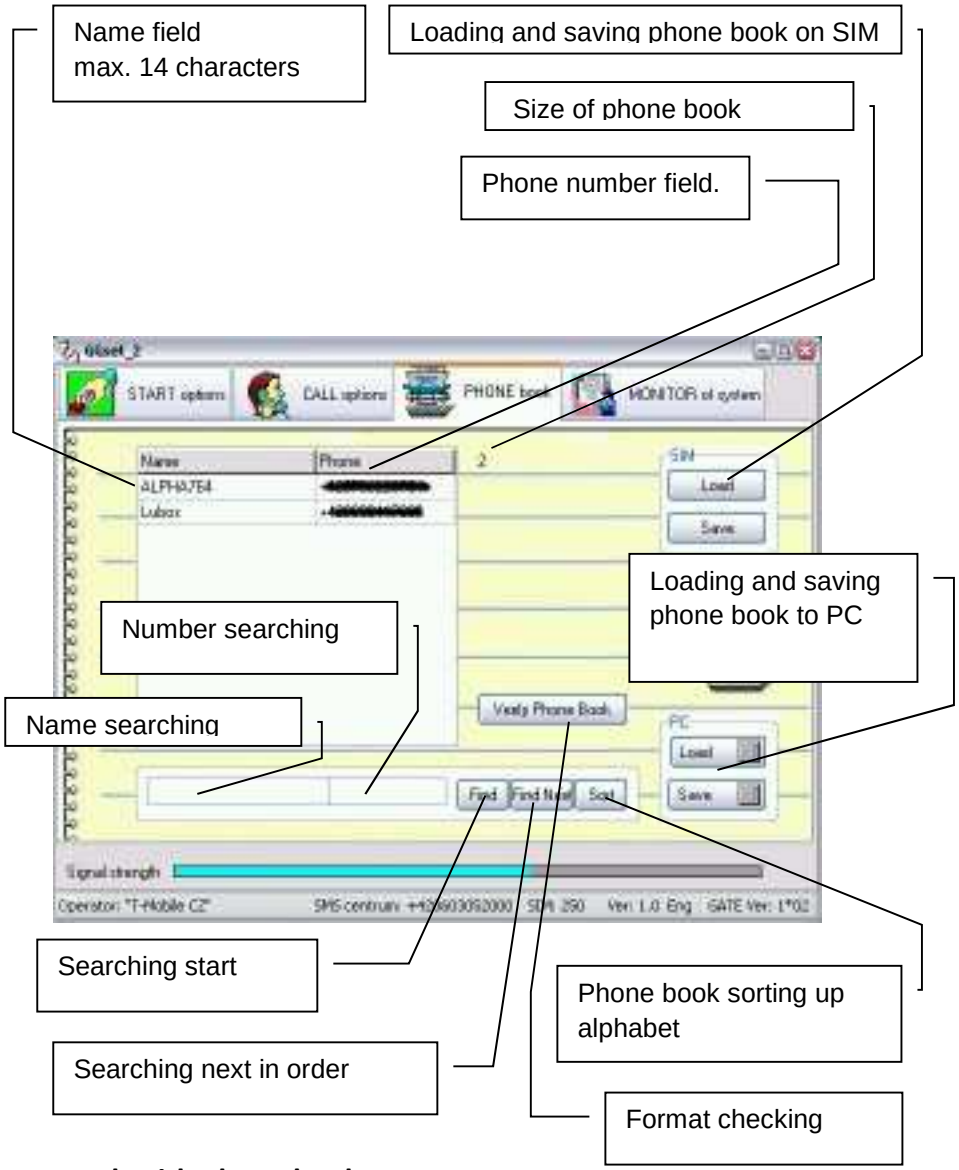



Confirmation character. After its dial is sent out dialled number. Possible set without confirmation character. CAUTION! Then you can not programing via phone!

„00“ dial in number begining will be changed to “+”
Default: OFF

**Folder Phone book**

Work with phone book on SIM card inserted in Gate. For this type of gate is not used.




**Work with phone book**

The work with phone book is the same like work with table. By button „Insert“ on keypad of PC insert new row cursor place. By button „Delete“ erase row contain. When you erase name as same as number from row then after cursor move the empty row is erased. During work with phone book is running automatic format control.

The phonebook you can load and save in your PC where you can edit saved data. After finishing phone book adjustment we recommend use button for checking data format.

Saving to SIM takes a time particularly in phone book longer than 100 records. (a few minutes). The process of phone books saving is shown on scale at bottom of window. During this action are control elements blocked.

The lenght of phone book may be various however to SIM will be saved only data up capacity of SIM card. (capacity info at bottom bar).

**Folder GSM network monitoring and Interface operation (for service purpose)**

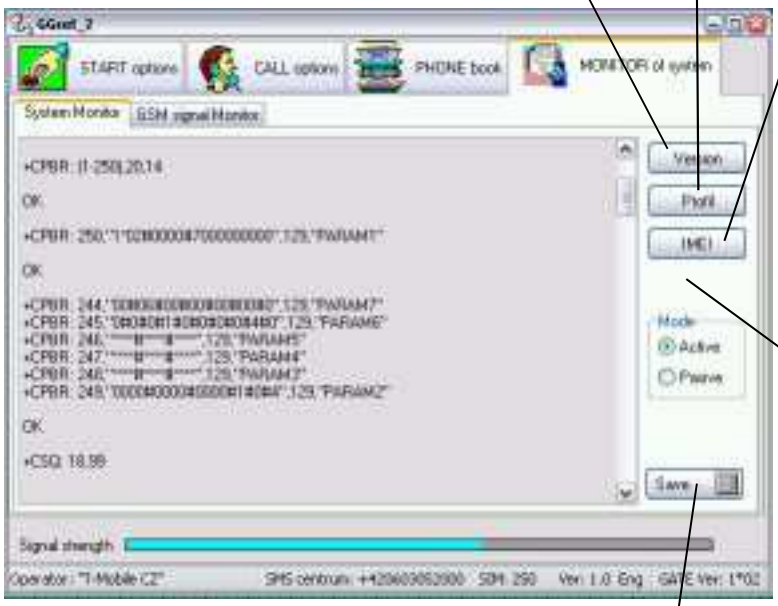
The Folder has 2 subFolders:

**Systém monitor**

IMEI of GSM modul

GSM modul profile

GSM modul version



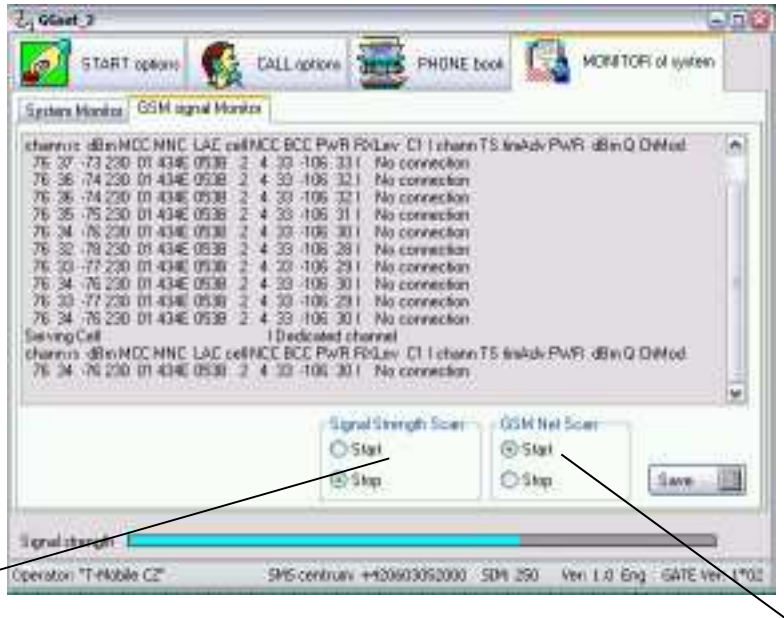

Saving of recorded data into file. (Possibility to send for further investigation)

Switching active/pasive mode. Active mode is design for programming gate parametres. To monitor gate operation you have to switch into pasive mode.

**CAUTION! We do not recommend during pasive mode send any commands to Interface (loading or saving parametres, checking of GSM modul parametres, etc..). It can cause communication error which blocks the Interface!!!!**
**Default: active mode**

## GSM monitor

Features mention bellow we recommend use in active mode only. We recommend to use it in pasive mode for service staff only!




Start and stop fast scanning of GSM signal strenght. The programm shows change of GSM signal as quickly as GSM modul gives the info. It is very useful for finding best position for placing GSM antenna.

By start of this feature will be in 5 seconds interval monitor connection parametres betwen gate and appropriate BTS ( Cell). It helps you to investigate reasons of eventual problems in cooperation between GSM network and Interface.