

Aspicore GSM Tracker

Usage Instructions

Tracking a route

Turn on your Bluetooth GPS device, if not already powered up. (Not necessary for integrated GPS)

Start GSM Tracker.

When you see, that the GPS and the cellular packet data are connected, you can put the GSM Tracker into the background by pressing *Options / Hide* or you can lock the keyboard with *Options / Lock keyboard*. (Note also the *Options / Keep backlight on* feature, if you want to keep display constantly visible.)

Now make a couple of kilometres test drive letting GSM Tracker to track your route to the test server.

After the drive, when you take your phone out of the Bluetooth range of your GPS device for long time, it is wise to exit the GSM Tracker application to save the phone battery charge level.

If you keep the GSM Tracker running in the background, you may want to turn on the setting *Misc / System attribute*. Otherwise the Symbian operating system may silently close down GSM Tracker, when other applications need more memory.

Examining the tracking results

With your PC web browser go to web <http://www.toimii.com/gps>.

Enter your phone's IMEI and click *Send*.

Soon you should see a table of stored location coordinates and links to various online maps.

The MapPoint link shows 20 most recent locations simultaneously on a single map. This is useful, if you want to fine-tune the trigger settings in GSM Tracker.

If you have Google Earth installed into your PC, try the Network Link with title "Snailtrail of 20 most recent valid positions". It shows your route on top of satellite or aerial image. You can give your friends the URL of Google Earth Network Link to your latest position and then they can add a self-refreshing Network Link to their Google Earth to see your position moving!

Release notes (v3.14)

New features since v3.13:

Power saving features for Integrated GPS. The GPS power can be automatically switched on and off as needed. If the application is set to report its GPS position every 10 minutes and to turn the GPS off in between, the battery time is about three times longer than when keeping the GPS chip constantly powered up.

New GPS settings items: "Max fix wait, min" and "Powersave after fix" On/Off.

The first setting determines how long the application waits for the GPS getting a good satellite signal before giving up. This timeout value is used, when making an automatic GPS connection. Setting the value to zero disables the timer.

The second setting, "Powersave after fix", causes the application to turn off the GPS straight after getting a good satellite signal and possibly sending the position to the server or enquirer. Next time the GPS is awakened again e.g. based on "Retry after, min" timer or when receiving a position enquiry SMS. This GPS power save function has no effect if the charger is connected.

Recommended settings for extended battery operation:

GPS / On startup GPS : On

GPS / Max fix wait, min: 2

GPS / Powersave after fix: On

GPS / Retry after, Min: 10

Trig1 / Time trigger: On

Trig1 / Time period, min: 10

With these settings the handset reports its GPS position every 10 minutes with minimal power usage.

New SMS settings item: "GPS activation by SMS".

If turned on, this setting causes automatic GPS connection establishment, when receiving a position enquiry by SMS.

Now the application can be used to recover a lost phone:

Set Autostart: On, System attribute: On, Password on exit: On,
GPS activation by SMS: On, Disable bill prompt: On

Application starts into the background on boot and stays silently there until a position enquiry SMS is received from an authorized user. When a matching SMS arrives, the GPS is activated and GPS coordinates are sent back to the enquirer.

If the GPS and the data connection are usually off, the application in the background consumes very little power. If this is what you want, make the following settings:

GPS / On startup GPS : Off

GPS / Powersave after fix: On

Net / On startup conn. : Off

New features and bug fixes since v3.12:

New SMS settings items: "Enquiry string" and "Response target" allow sending GPS data on request. Sends the current location, when receives an SMS starting with the string specified in "Enquiry string". The string can be e.g. "?loc".

New optional fields available in the text message template:
<status>, <utctime>, <utcdat>, <speed>, <course>, <cellid>, <lac>, <mcc>, <mnc>, <mode> (Already earlier supported fields are <lat> and <lon>).

Ensure that captured data is written to the disk within 5 minutes to minimize data loss if the battery is unexpectedly removed.

Launching the web browser from GSM Tracker works now also in S60 3rd Ed, FP1 devices like Nokia N95.

Automatic web browser launch using an URL extracted from the HTTP response. If there is an URL among the Info tab text, GSM Tracker sends that URL to the mobile browser.

Use compressed SVG icons for S60 3rd FP1 devices. Makes the icons visible also in the newer firmware versions.

Check for Bluetooth connection / GPS connection immediately after charging is activated (cable connected).

New Settings item: "GpsGate protocol" On / Off.

Backup works now also for the settings.