

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!

Extended battery operation with internal GPS

The GPS chip consumes much power. 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.

Related settings item: "Powersave after fix" On/Off.

See recommended power saving settings at

<http://www.aspicore.com/gsmtrackerhelp/v315/#Extended>

Release notes (v3.15)

New features since v3.14:

BUFFERING

Now it is possible to store waypoints if the data connection is lost and forward them once the connection is restored. Buffering is available, when using plain TCP/IP or UDP/IP connection. To activate buffering, turn on the setting "Net" / "Output buffer". The buffering works best with a TCP/IP connection. The buffering is not available with an HTTP connection.

In the main screen the bottom row shows a counter for the number of positions sent to the server. If the buffering is in use and the data connection is broken, the counter shows the number of stored positions in the buffer instead. In this case the number is prefixed with letter B.

AUTOMATIC PERIODIC SMS MESSAGES

New settings: "SMS" / "Autosend when offline" and "SMS" / "Time period, min". This feature uses the stored value "SMS" / "Recipient number" and the setting "Net" / "Disable bill prompt" must be turned on. Offline meaning here that there is no open Internet connection. A GSM network and a SIM card are still required to send the text message.

New optional fields in SMS template: <ssi>, <imei>

(The signal strength of the currently serving cell, phone serial number.)

SERVER CAN ENQUIRE CURRENT LOCATION THROUGH TCP/IP CONNECTION

Normally Aspicore GSM Tracker reports its position to the server as set by the triggers at the mobile end. Now in the new version the server can also poll the current location of the mobile phone via an open TCP/IP connection. Aspicore GSM Tracker accepts command "?loc" from the TCP/IP connection and responds by sending the current position. The keyword ?loc can be changed by settings item "SMS" / "Enquiry string". If the keyword ?loc is followed by an identifier in the TCP/IP stream, then GSM Tracker sends the current position labelled with the identifier.

E.g. if the server sends ?loc pos1
the GSM Tracker responds with

```
IMEI 35146710870xxxx  
$GPRMC,092326.000,A,6010.34733,N,02445.70196,E,1.8,163.8,041108,6.9,W,A*14  
Label pos1  
*9B80F2C8
```

CHANGE IN SYNTAX CONTROLLING MOBILE WEB BROWSER

When using HTTP as a connection channel between GSM Tracker and the server, the web server can send an URL back to GSM Tracker in the response text. Earlier just the characters http:// anywhere in the response text caused GSM tracker to send the extracted URL to the cell phone web browser. Now in the new version an additional condition has been added: the URL must be delimited with tags <gsmtracker> and </gsmtracker> before any action is taken. E.g. <gsmtracker>http://www.hereisourlink.com</gsmtracker>

BETTER PROTECTION AGAINST THEFT

New settings: "SMS" / "App start alert" and "SMS" / "SIM change alert". These functions can be used to track a stolen phone. If they are turned on and "SMS" / "Recipient number" has been set, they send an SMS to the preset number, when the application is started or when the SIM card has been changed, respectively. This SMS reveals the new phone number, which you can then use to interrogate the phone's location by further text messages. To use these features make sure that "Net" / "Disable bill prompt" is ON and "Misc" / "Autostart" is ON.