

# 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/v316/#Extended>

## **Release notes (v3.16)**

*New features since v3.15:*

### NOKIA 5800 XPRESSMUSIC

Tab panels and settings views modified for better usability with Nokia 5800 XpressMusic.

### POWER SAVE

GPS power save feature refined. The powersave feature now disconnects and reconnects the Internet connection in addition to cutting off and resuming the GPS connection. Powersave works now better also when using automatic periodic SMS messages instead of the Internet connection.

Output buffer is now ON by default for better power save functionality in case where the Internet connection cannot be created and SMS autosend is not enabled.

### GPSSGATE "TRACKER ONE" PROTOCOL

GpsGate TrackerOne protocol implemented, as specified by Franson Technology AB. This is now an alternative protocol to be used with GpsGate products. The original GpsGate protocol is still used, when selecting Settings wizard & GpsGate.com wizard from the options menu.

To start using TrackeOne protocol, install Aspicore GSM Tracker with default settings and start the application in the phone. Then you can configure and control the device by sending SMS commands `_GprsSettings`, `_StartTracking`, `_StopTracking` and `_PollPosition` from GpsGate Server. Aspicore GSM Tracker reacts to these commands automatically, provided that the authentication succeeds. The current implementation accepts commands from the GpsGate Server through SMS only. Responses are sent through GPRS or SMS.

### NEW CELL TOWER DATA FIELDS AND PERIODIC CELL MESSAGE SENDING

The data fields 'mode' (3G vs GPRS) and 'ssi' (signal strength) added to the plain TCP and UDP protocols. Earlier these fields were available only with http.

The application can send periodic cell messages to the server even if there is no GPS and the connected cell remains the same. Activate periodic cell messages by turning on the settings "Cell" / "On startup tracking" and "Send cell every time". The time period is set by 'trig1' -> 'time trigger'.

The settings option "Send cell every time" has been moved from the 'http' tab to the 'cell' tab, because now it has an effect also with UDP and TCP protocols in addition to the http protocol.

#### MINOR CHANGES IN POWERSAVE LOGIC

Send only valid satellite positions, when the setting "Powersave after fix" has been enabled. This enables the powersave logic to react quicker to the first good fix: send it immediately to the server and then go to sleep. (Requires that the time period settings are set appropriately as instructed in the recommended settings.)

If using the "Autosend when offline" SMS feature, send GPS data only when the fix is valid and after that activate the powersave, if enabled. Earlier the satellite connection could have been bad just when the SMS was sent and the powersave feature was not optimal together with the SMS autosend feature.