

GBM Mobile – SiRF III GPS Chips

V4.18 Software Update

GPS units that are optimized for in-car navigation require re-configuration for foot traverses.

Overview

Most manufactures of consumer level GPS equipment have optimized their hardware for in-car navigation. Many are using the SiRF III GPS chip that is has an inbuilt static navigation function designed to stabilize GPS positions for stationary vehicles.

The normal range of movement (speed and acceleration) for a hand carried GPS unit is quite different from that of a typical vehicle mounted unit. The default in-car navigation settings are overly aggressive for typical GBM Mobile operation.

For SiRF III based GPS units, unless static navigation is disabled a slowly moving operator carrying a SiRF based GPS unit will not receive position updates until the location has changed by around 50 meters.

GBM Mobile V4.18 includes configuration setting that automatically turns off static navigation on SiRF II based GPS units each time GBM Mobile connects to the GPS.

GPS Configuration

GBM Mobile operator who are hand carrying their GPS units need to disable the default static navigation settings of the SiRF chip through the new NMEA settings option supported by GBM Mobile V4.18.

To disable static navigation:

- **Upgrade to GBM Mobile V4.18.**

Contact Exa-Min or your GBM Mobile reseller for a link to download the patch installer from the web.

This is a free download for GBM Mobile customers whose systems are under maintenance and for customer who purchased their copy of GBM Mobile after 30th January 2007.

The patch installer will upgrade V4.10 of GBM Mobile Manger on your support PC. You will need to re-install GBM Mobile onto each of you mobile devices once you have upgraded GBM Mobile Manger. Following re-installation the GBM Mobile about box on the PDA should show V4.18.0078.

Customers with GBM Mobile for ike or GBM Mobile for Trimble V4.20.0063 will already have this feature installed.

- **Configure GBM Mobile to disable SiRF static navigation**

With the GPS disconnected, access the “chipset” button on the Hardware tab under NMEA GPS Settings. Choose the second radio button.

- **Connect the GPS through the GBM Mobile menu as usual**

If you are using a SiRF III based GPS unit, GBM Mobile will automatically issue the commands to disable static navigation and switch the GPS into NMEA mode each time it is connected.

