

## MobileMapper CE Quick Setup Guide

23 August 2005

### A. Open the box and make sure you have everything

The photograph below shows everything that should have been shipped to you. It includes the part numbers.

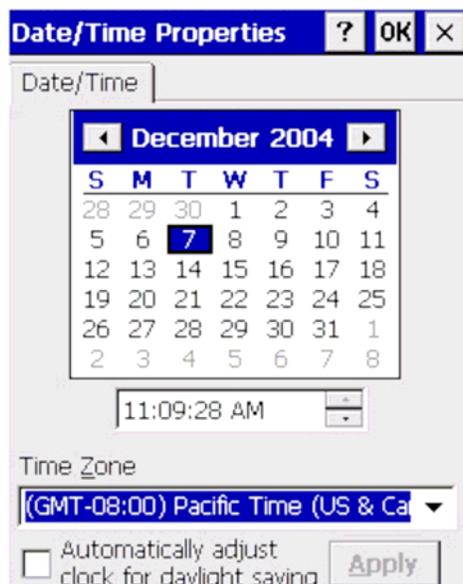


## B. Charge the internal, removable battery

1. Attach the I/O Module to the back of the MobileMapper CE as shown in the Getting Started Guide.
2. Plug the recharging transformer into a wall plug and attach the DC end into the I/O Module.
3. The battery automatically charges when the MobileMapper CE is in Full Shut Down Mode or when it is turned on. It will not charge when in Suspend Mode.
4. Turn on the receiver and a green LED under the power button will turn on.
  - a. Whenever the receiver is turned on and attached to external power, a flashing red LED will signify that the battery is recharging.
  - b. When the battery is fully charged, the red LED will stay on without flashing.
  - c. Whenever the receiver is in Full Shut Down Mode, the battery will be recharged but neither front panel LED will be lit.
5. Once Windows CE has booted on the receiver, you may check battery status by tapping the Start icon on the bottom left side of the screen and then selecting Settings>Control Panel. On the Control Panel, double-tap the Power icon. The Battery screen will show the status of both the external power source and the internal battery. You should wait until the Battery screen shows 100% charge (or until the red LED is lit steadily) before proceeding to collect a full day's data.
6. Tap the OK button to exit the Power utility.
7. Tap the X in the upper right of the Control Panel to turn it off.

## C. Set the time zone

1. In the Windows CE task bar, double-tap the clock icon  to open the Date/Time Properties screen.



2. Set the year, month and date on the calendar
3. Set the time zone in the time zone field.
4. To automatically adjust the time for daylight saving, check the box at the bottom
5. Tap the **Apply** button and then **OK** on top of the screen.

After you tap OK – and every time you turn on MobileMapper CE - it will automatically set the correct time as soon as it tracks the first GPS satellite.

#### D. Set GPS recording parameters

The GPS Settings tool is used to control the precision required for GPS positions. To access the tool, tap Start>Programs>GPS Utilities>GPS Settings. A more complete description is contained in the tech note “Tech Note - MMCE's GPS Settings.”

In average environments, we recommend the following default settings:

DOP Type:	PDOP
Maximum PDOP:	6
Minimum SNR:	24
Elevation Mask:	15

Under tree canopy, we recommend the following less restrictive settings:

DOP Type:	PDOP
Maximum PDOP:	8
Minimum SNR:	32
Elevation Mask:	10

#### Editing GPS settings

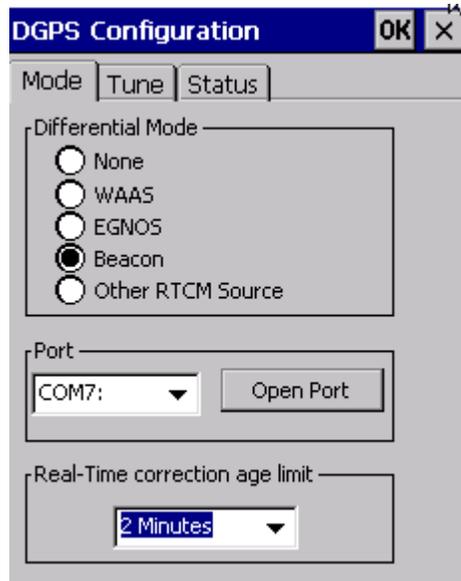
You may edit any field on MobileMapper CE using the buttons on the keyboard or by using an on-screen “soft keyboard” that you display on the screen. To use the soft keyboard, tap the screen-and-pencil icon in the Windows CE task bar. Select the Keyboard option to make the on-screen keyboard appear. Tap on the **Maximum PDOP** field, for example, and then edit the number using the on-screen keyboard. If the keyboard obscures anything on the display, you may tap and hold on the label bar and drag it to another location on the display.

#### Saving GPS settings

To save and use your selections, tap the Apply button and then the OK button. Important: The on-screen keyboard obscures the **Rest to Default** and **Apply** buttons on the GPS Settings screen. When you are done editing the GPS settings parameters, you must hide the on-screen keyboard by tapping the screen-and-pencil icon in the Windows CE task bar and selecting the **Hide Input Panel** option.

#### E. Configure MobileMapper CE for real-time DGPS corrections

To launch the **DGPS Configuration** utility, tap Start>Programs>GPS Utilities>CGPS Configuration. MobileMapper CE allows you to select specific modes of real-time differential correction. When you select a mode, the receiver will use only this mode and will not automatically switch to some other mode if the selected source of real-time corrections is not available. If a selected source of corrections is unavailable, the receiver will continue to record positions, but they will not be corrected. The DGPS modes you select are **None**, **WAAS**, **EGNOS**, **Beacon** (i.e., MobileMapper Beacon, specifically) and **Other RTCM source** (usually another type of beacon receiver).



If you select **Beacon** for MobileMapper Beacon you will have to open a port for Bluetooth communication (see below).

Select the **Real-Time correction age limit** by tapping the down arrow and picking an amount of time from the pick list. The receiver will continue to use the last corrections it received as long as the age limit is not exceeded. After that it will record uncorrected positions until the DGPS signal is restored.

Click **OK** to accept the configuration or **X** to cancel.

#### **F. (Optional) Set up a Bluetooth connection**

For a full description of setting up Bluetooth communication in the MobileMapper CE, for example to access real-time differential corrections, please refer to the Getting Started Guide or to the tech notes titled “Setting up MMCE for Beacon Corrections.” Both are available from the MobileMapper CE folder at <ftp.thalesnavigation.com>.