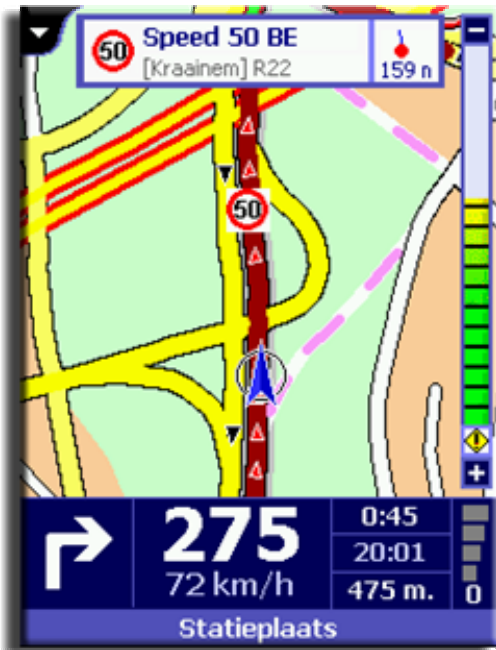


GPSAssist.NET

Version 2.1.1.4

Users Manual



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2 GPSAssist

2.1 Introduction

GPSAssist is an add-on for TomTom Navigator. One of its most important features is to perform POI Detection.

GPSAssist is supported on following platforms

- TomTom Navigator 1
- TomTom Navigator 2
- TomTom Navigator 3
- PPC 2002 (using .NET Framework)
- Windows Mobile 2003

Currently GPSAssist consists of actually two applications that can be used separately but do tightly integrate with each other. One application is called GPSAssist which is the application used to perform POI Detection etc... while the other application, called POIAssist, is used to download OV2 files. If you don't know what OV2 files are, continue reading this chapter.

2.2 Starting GPSAssist

To start GPSAssist tap [\[Start/Programs\]](#) on your Pocket PC and then click the GPSAssist icon. By default GPSAssist will configure your Pocket PC's **first hardware** button to **toggle** between **GPSAssist** and **TomTom Navigator**. You may of course change this on the general settings window.

2.3 POI

POI is short for "*Point Of Interest*". In other words a set of geographical coordinates indicating a location of some importance. GPS Coordinates are always expressed in *Latitude* and *Longitude*. The Map Datum is WGS84.

TomTom Navigator uses files in the OV2 format. These OV2 files contain lists of POIs.

A POI can be of different types like for instance gas stations, speed cameras, and so on. TTN expects these OV2 files to be located in its map directory.

You will learn that to use the GPSAssist POI Detection, you don't actually need to know the exact location of the map directory unless you manually want to place OV2 files on your Pocket PC.

2.4 POI Detection

Using POI detection you will get warned when approaching certain points of interest (stored in OV2 files). When correctly configured (using the POI Detector Settings menu option), and when the TTN navigator window is visible you will be warned by an *audible alert* (configurable) and *visible alerts* when approaching a POI.

2.5 Audible alerts

GPSAssist uses audible alerts to warn you of certain events. All these alerts can be configured. There is an audible alert when driving faster than a certain selected speed (see speed alerts) and there are two alerts when approaching a POI.

2.6 Visible Alerts

GPSAssist also uses visible alert windows to warn you when you are driving faster than a certain set speed (see Speed Alerts Window) and/or when approaching a POI. When you approach a POI, two visible alerts are show. One window will tell you which POI is detected, your current distance to the POI and the relative direction to the POI. A second visible alert shows a progress bar on the right of the screen showing you how far away you are from the POI.

2.7 Active or not?

To know if POI detection is active you only need to look for the small yellow diamond icon situated right above the plus sign on the TomTom Navigator navigator screen. If the icon is not there, POI Detection is not active.



2.8 Speed Alerts

With Speed Alerts you can get warned when driving above a set speed. As long as you're driving above the set speed a visible alert will be show telling you about your current speed and the maximum speed. At the same time and audible alert will play. To configure a total of six speed settings use the Speed Alerts Window.

2.9 The Main Menu

This chapter gives an overview of all available menu options and buttons available in the GPSAssist main menu. The top three buttons are used to turn on/off certain function (POI Detection, Speed Alerts, Automatic Day/Night colors).

2.9.1 POI Detect

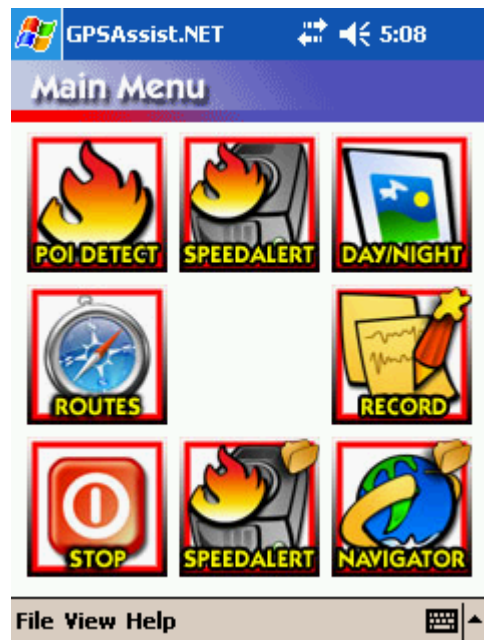
Click this button to make POI Detection active. Click it again to disable POI Detection. If the button is grayed out, POI Detection is inactive.

2.9.2 SpeedAlert

Click this button to make Speed Alerts Active. Click it again to disable Speed Alerts. If the button is grayed out, Speed Alerts are inactive

2.9.3 DayNight

Click this button to enable automatic night colors. Click it again to disable automatic night colors. When the button is grayed out, automatic night colors are inactive.



2.9.4 Record

Click this button to record a POI. When no valid GPS Coordinates are available (e.g. no satellite reception) an info message will popup telling you that there are no valid GPS coordinates. If there are GPS coordinates available then the POI Recorder will popup.

2.9.5 Stop

Click this button to stop GPSAssist. A second window will appear asking you for confirmation. Click stop again to really stop GPSAssist. Click [\[MainMenu\]](#) to return to the main menu.

2.9.6 SpeedAlert

Click this button to bring up the Speed Alert window. On this window you can select another predefined speed limit.

2.9.7 Navigator

Click this button to switch to TomTom Navigator. If TomTom navigator is not yet running, it will be started. In that case an info window will popup telling you that TTN is being started.

2.9.8 Routes

This button allows you to do point to point navigation with an unlimited amount of waypoints. Routes can be created (imported) using RouteAssist. Check the chapter on RouteAssist for more detailed information.

2.10 GPSAssist Menu options

2.10.1 File/POI Assist

Selecting this menu option will start the external application POIAssist.

2.10.2 File/POI Manager

Selecting this menu option will open the POI Manager

2.10.3 File/POI Detector Settings

Selecting this menu option will open the POI Detector Settings window.

2.10.4 File/General Settings

Selecting this menu option will open the general settings window.

2.10.5 View/Speed Alerts

Select this menu option to view the Speed Alerts window.

2.10.6 View/Geographics

Select this menu option to view the Geographics Window

2.10.7 View/Main Menu

Select this menu option to view the main menu (with graphical buttons)

2.10.8 Help/About

Select this menu option to view details of the current GPSAssist version

2.10.9 Help/Register

Select this menu option to view the registration panel.

2.10.10 File/Route Assist

This function is still in beta and will provide function to use routes (navigation from point to point). TTN3 provides a similar option but limits the number of points to 16 while GPSAssist has no limit and provides import support.

2.10.11 File/Routes

This function is still in beta

2.11 Automatic Night Colors

When this option is enabled, GPSAssist will automatically switch TTN from day to night colors and vice versa based on your current geographical location and local time. This function will only work when valid GPS coordinates are available (there is satellite reception). The Geographic's window gives more information about the times that switching will occur.

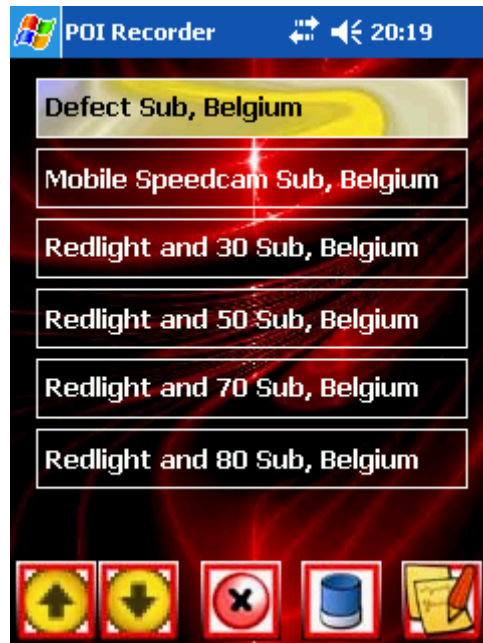


2.12 POI Recorder

The POI Recorder allows you to **record new POIs** into existing or new OV2 files. This allows you to record a POI that for some reason is not present in a certain OV2 file. E.g. you might pass a new gas station that is not in the OV2 file holding all gas stations in your region.

2.13 POI Recorder Window

The POI Recorder window is shown when you want to record a POI. This is either done by clicking on the **graphical button** on the main menu or by assigning a hardware button to perform this function.



At the top of the panel you will find a list of OV2 files that you have selected to be shown for POI Recording (using File/POI Recorder Settings)

You might have 50 OV2 files monitored by GPSAssist but you might only want to record new POIs in 5 of them. To select which OV2 files need to be available for POI Recording use [\[File/POI Recorder Settings\]](#)

Important to know is that when you record a POI it is not only stored directly in the OV2 file but also in the recorder database. It's this database that you can manage with the POI Manager.

Following list describes the function of each of the available buttons.

2.13.1 Scroll Up button

Click this button to scroll up in the list of available OV2 files. This is only needed if you have selected more than 6 OV2 files to be available for recording.



2.13.2 Scroll Down button

Click this button to scroll down in the list of available OV2 files. This is only needed if you have selected more than 6 OV2 files to be available for recording.



2.13.3 Cancel Button

Click this button if you don't want to record or delete the new POI



2.13.4 Delete button

Click this button to delete the nearest POI. Note that a POI can only be deleted if it is being monitored by GPSAssist
 it was detected
 it is within the deletion radius (by default 300 Meters and configurable)



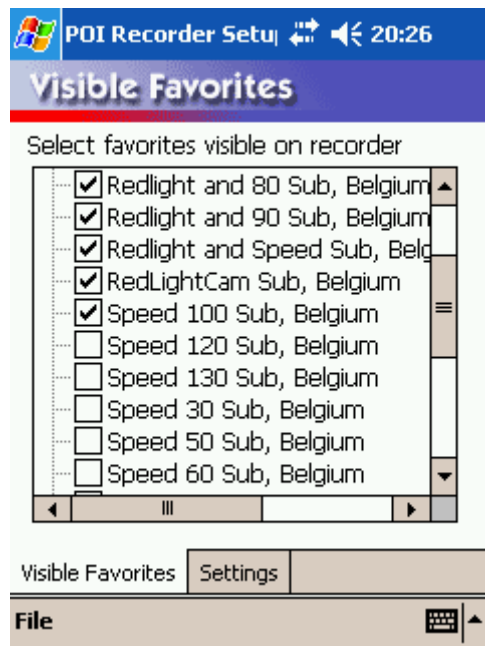
2.13.5 Record button

Click this button to record the POI in the OV2 file that you have indicated in the list of available OV2 files.



2.14 POI Recorder Settings

Select File/POI Recorder to bring up this panel. Here you can select which OV2 files need to be available for POI recording. Here you can also set the deletion radius by clicking on the Settings tab. If the POI you want to delete is not within this set radius it will not be deleted.



2.15 Info Window (OSD)

The info window or OSD (on screen display) gives informational messages of what GPSAssist is doing. E.g. when you click the Navigator button on the main window and TTN is not started yet, an information window will popup telling you that TTN is being started.

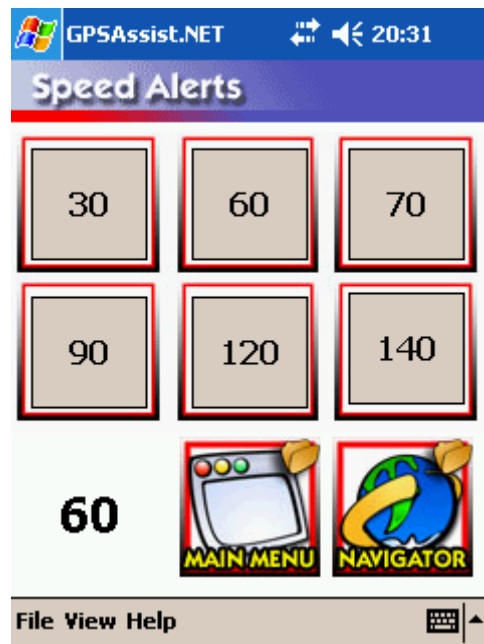


You can set the time the informational window needs to stay on the screen on [\[File/General Settings/Graphics/OSD Delay\]](#)

2.16 Speed Alerts

The speed alerts window pops up when you drive faster than a certain set speed. It tells you about your current speed and the speed limit that you have currently selected.

You can switch the speed limit either by opening the Speeds Alerts window or using hardware buttons.



2.17 POI Assist

POIAssist is an external application that you can also start by selecting [\[Start/Programs/POIAssist\]](#) on your pocket pc or from within GPSAssist by selecting [\[File/POIAssist\]](#)

With POIAssist you can download **OV2** files from the internet straight onto your PPC, in the correct location. Note that you actually don't have to use POIAssist to download OV2 files.

You can also manually copy OV2 files onto your pocket PC in the TTN map directory.

See the separate chapter on POIAssist for details.



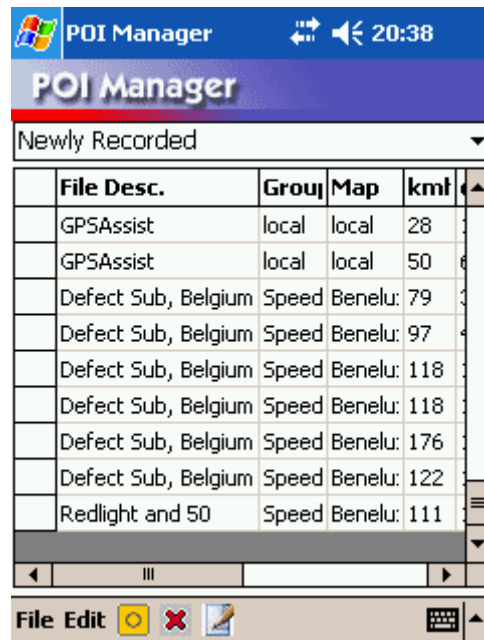
2.18 POI Manager

With the POI Manager you can manage the POIs you have recorded or deleted.

It allows you to move/remove recorded POIs to another OV2 file, to show them on the map etc See the separate chapter on the POI Manager for details. In a later version the POI Manager will be used to synchronize (upload) recorded POIs to Pocket GPS World.

See the separate chapter on the POI Manager for details.

Again note that the POI Manager currently only manages your own record/deleted POIs.

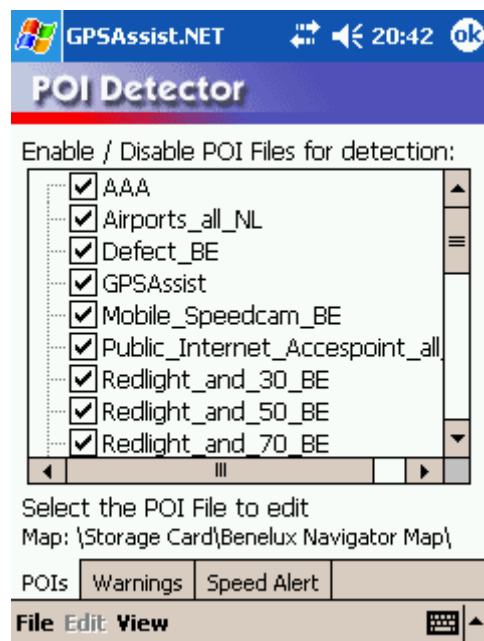


2.19 POI Detector Settings

Select [\[File/POI Detector Settings\]](#) to bring up the POI Detector Settings. When you first open the POI Detector Settings panel you will see that it lists **all available OV2 files** in the current TTN map. Of course if you don't have OV2 files on your PPC yet (and in the correct location) this list will be empty. Use POIAssist to download OV2 files or manually copy them into the map directory.

To enable an OV2 file for POI Detection you have to tick the checkbox in front of it.

To alter the detection parameters click on the title of the OV2 file.



Following lists the parameters that you can set for each monitored OV2 file separately.

2.19.1 Left

This is the left detection angle and can range from 0 to 180 degrees.

If an approaching POI is not within this detection angle it will not be detected and consequently no alerts will be given.

Setting both the left and right detection angle to 180 degrees will effectively enable detection of a POI in the selected OV2 files even if it lies behind you. You can set the left and right detection angle separately to for instance only detect the POI if it lies left from you.


2.19.2 Right


This is the right detection angle and can range from 0 to 180 degrees. If an approaching POI is not within this detection angle it will not be detected and consequently no alerts will be given.

2.19.3 First Warning Active

Tick this option to enable the first alert. If this is not active then of course there will be no alert.

2.19.4 First Warning Alert Sound

Click the  button to select a sound to be played for this alert. The sounds (wav files) need to be stored in "My Documents" or on an external storage card. If they are located elsewhere you can still enter the filename of the sound file manually.

Click the  button with to play the sound for verification.

Note that you can download a selection of warning sound from the GPSAssist Sound site using POIAssist.

2.19.5 First Warning distance

With this you can set when the alert has to be played/shown.

- **Meters:** If a POI is closer than the set distance in meters, the alert is given.
- **Feet:** Same a meters but in feet
- **Seconds:** Same as meters but in seconds
- **Meters Sonar:** Same as meters but the audible alert will keep sounding.

2.19.6 Second Warning Active

Tick this option to enable the second alert. If this is not active then of course there will be no second alert. Note that the second alert will never play when the first alert has not been played.



2.19.7 Second Warning Alert Sound

Same as for the first warning alert sound

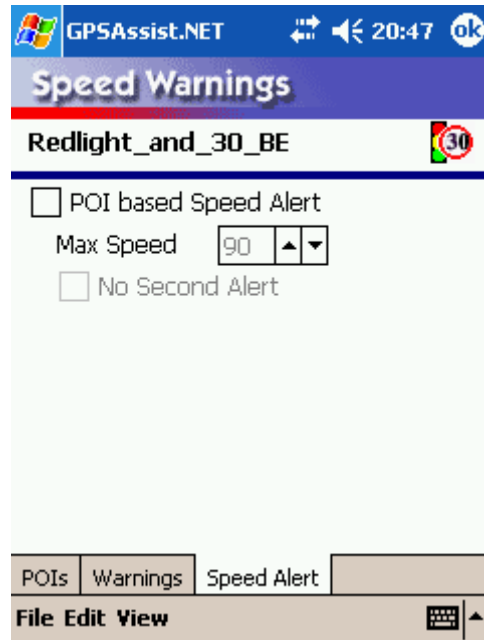
2.19.8 Second Warning distance

Same as for the first warning distance

2.19.9 POI Based Speed Alert Active

Using this setting you can let GPSAssist sound the speed alert warning sound when a POI has been detected from the selected OV2 file and you are driving faster than a set speed. This is basically the same as the speed alerts but here you can have a different speed setting for each OV2 file separately.

- **Max Speed:** Driving faster than this setting will sound/show the speed alert
- **No Second Alert:** Selecting this option will disable the second sound alert when a speed alert is given.



2.20 POI Detector settings - Menu options

2.20.1 File/Activate All

Select this menu option to make all OV2 active for POI detection. This is easier than having to select each OV2 file separately.

2.20.2 File/Deactivate All

Select this menu option to make all OV2 inactive for POI detection. This is easier than having to deselect each OV2 file separately.

2.20.3 Edit/Copy Values

Selecting this menu option will copy all the detection parameters of the currently selected OV2 file onto the clipboard. These can then later be used to paste into the detection parameter settings of other OV2 files.

2.20.4 Edit/Paste To Selected

This will paste the values that you have copied earlier using the Edit/Copy Values option into the parameter fields of the currently selected OV2 file.

2.20.5 Edit/Paste To All

This will paste the values that you have copied earlier using the Edit/Copy Values option into the parameter fields of all OV2 files.

2.20.6 View/Make Active Visible in TTN

Use this option to make all active POI Files visible in TomTom Navigator. This is much easier than having to go into TomTom navigator and making the POIs visible there.

2.20.7 View/Make Active Invisible in TTN

Same as above function but to make the POIs invisible in TTN.

2.21 Geographic's Window

The Geographic's window shows you some details about the current longitude and latitude, if TTN is detected to be running, the sunrise and sunset times for your geographical location and date.



2.22 Registration Panel

The registration panel is used to enter your unlock code. Once purchased you will obtain a personalized unlock code that you need to enter on this panel.

GPSAssist.NET 23:41

Registration

Please enter the unlock code you have received. For help contact registration@autoreplying.com.

Name

ID

Unlock Code

2.23 Hardware Buttons

GPSAssist makes full use of the hardware buttons on your pocket pc to perform certain actions like switching to TTN, recording POIs etc... Each of the buttons on your pocket PC can be configured to perform a certain action.

See the separate chapter on hardware buttons for details.

2.24 General Settings

Select [\[File/General Settings\]](#) from the main menu to bring up the settings panel.

2.24.1 General/Units in Miles

Select this option to show distances in miles.

2.24.2 General/Do not launch TTN at startup

Select this option to prevent GPSAssist from starting TTN at startup.

2.24.3 General/Stop when TTN is stopped

Selecting this option will have as effect that GPSAssist is also stopped whenever TTN is stopped

2.24.4 General/Stop TTN When GPSAssist Stops

Selecting this option will have as effect that TTN stops whenever GPSAssist is stopped

2.24.5 General/Delay Correction

It's inherent to GPS Receivers that they report the GPS coordinates and speed with a small delay. To compensate for this delay you can set the Delay correction parameters. A good setting is 1000 milliseconds.

2.24.6 Buttons Tab

On this tab you can assign certain function to any of the hardware buttons on you pocket pc. Note that by default the first hardware button of you device is set to toggle between GPSAssist and TomTom Navigator.

See the separate chapter on hardware buttons for an overview of all functions that can be assigned.

2.24.7 Speed Alerts/Speed

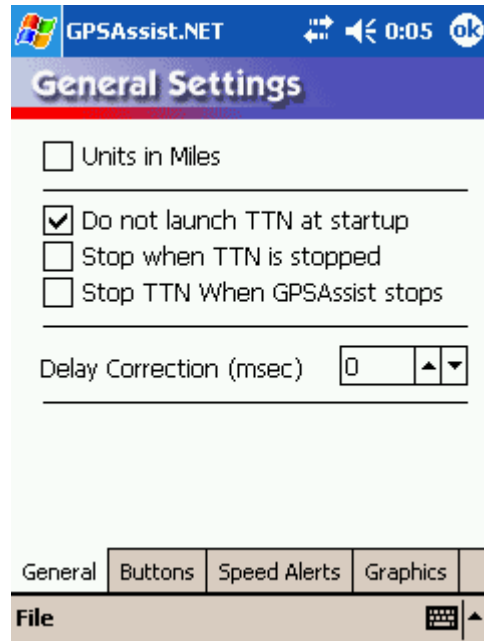
On this panel you can predefine a total of six speed limits which are used for the speed alerts.

2.24.8 Speed Alerts/Repeat Alert

If you want to be continuously warned that you are driving to fast you may set this value to a value greater than zero.

2.24.9 Speed Alerts/Speed Alerts On

Has the same function as the graphical button on the main menu



2.24.10 Speed Alerts/Sound

You can select the sound to be played when a speed alert occurs.

2.24.11 Graphics/POI Alert Position

This parameter sets the position in pixels from the top of the window that alerts you when a POI is in reach. This window holds information about the POI itself and its distance and direction. The top of the screen is zero while the bottom of the screen is 320.

2.24.12 Graphics/Speed Alert Position

Same as above but for the Speed alert window

2.24.13 OSD Position

Same as above but for the informational window

2.24.14 OSD Delay

Use this parameter to set the number of milliseconds informational messages should be displayed.

3 Hardware Button Functions

Following is a list of functions you can assign to your PPC's hardware buttons. Use [\[File/General Settings/Buttons\]](#) to assign functions.

3.1.1 [Default]

The default function of the button is preserved.

3.1.2 Switch to GPSAssist

This switches to GPSAssist. To save buttons you may use the toggle function (described later)

3.1.3 Switch to Navigator

This switches to the TomTom Navigator Navigator window. To save buttons you may use the toggle function (described later)

3.1.4 Main Menu

This switches to the GPSAssist main window. To save buttons you may use the toggle function (described later)

3.1.5 Speed Alerts ON

Turns on speed alerts

3.1.6 Speed Alerts OFF

Turns off speed alerts

3.1.7 Toggle Speed Alerts

Turns speed alerts on if they were off and vice versa. Use this to save buttons

3.1.8 Speed Alerts

Shows the GPSAssist speed alert window where you can select a different speed limit

3.1.9 Setup

Shows the GPSAssist General settings panel

3.1.10 Geographics

Shows the GPSAssist Geographics screen

3.1.11 Speed Alert X

Selects a specific speed limit

3.1.12 Speed Alert <

Switches to the previous speed limit and stops when the lowest speed limit has been reached

3.1.13 Speed Alert >

Switches to the next speed limit and stops when the highest speed limit has been reached

3.1.14 Speed Alert <<

Switches to the previous speed limit but does not stop when the lowest speed limit has been reached.

3.1.15 Speed Alert >>

Switches to the next speed limit but does not stop when the highest speed limit has been reached

3.1.16 Toggle POI Detector

Turns POI Detection on when it was off and vice versa

3.1.17 Toggle GPSAssist/TTN

Toggles between GPSAssist and TTN

3.1.18 Toggle GPSAssist/Speed Alerts

Toggles between GPSAssist and the speed alerts window

3.1.19 Stop GPSAssist

Stops GPSAssist

3.1.20 Record POI/Store

This is a double click function. The first click opens the POI Recorder panel while the second click on the same button records the POI.

3.1.21 Record POI/Delete

This is a double click function. The first click opens the POI Recorder panel while the second click on the same button deletes the POI (according to deletion rules)

3.1.22 Record POI (Hot)

This will record a POI in the file GPSAssist.OV2 without opening the POI Record panel. This allows for quick recording

3.1.23 Delete POI (Hot)

This will delete a POI in the OV2 file of the last detected POI without opening the POI Recorder panel.

3.1.24 Show TTN Map

Shows the TomTom Navigator Map

4 POIManager

The POIManager allows you to manage POIs that you have recorded or deleted using the POI Recorder. As said before the POI Recorder stores newly recorded POIs directly in the OV2 file but also in the recorder database.

The recorder database will as such hold a list of all POIs that you have recorded and deleted. It's this information that will be used in a later version to synchronize with the Pocket GPS World database.

Each recorded POI holds following information


- A description
- Latitude
- Longitude
- Time of recording
- Your current speed
- Your current direction
- Your current speed limit setting
- Your time zone
- POI Map
- POI Group
- POI Name

4.1 Viewing the POIs

By selecting [\[File/POI Manager\]](#) you will immediately see the list of recorded POIs. You can also view deleted POIs by selecting [\[Newly Deleted\]](#) in the dropdown list on top of the page. You can also view all POIs by selecting [\[All\]](#) in the same dropdown list.

4.1.1 Edit/Show On Map

Use this function to show the selected POI on the TomTom Navigator Map. Click any hardware button to return to the POIManager.



File Desc.	Group	Map	km/h	
GPSAssist	local	local	28	
GPSAssist	local	local	50	
Defect Sub, Belgium	Speed	Benelu:	79	
Defect Sub, Belgium	Speed	Benelu:	97	
Defect Sub, Belgium	Speed	Benelu:	118	
Defect Sub, Belgium	Speed	Benelu:	118	
Defect Sub, Belgium	Speed	Benelu:	176	
Defect Sub, Belgium	Speed	Benelu:	122	
Redlight and 50	Speed	Benelu:	111	

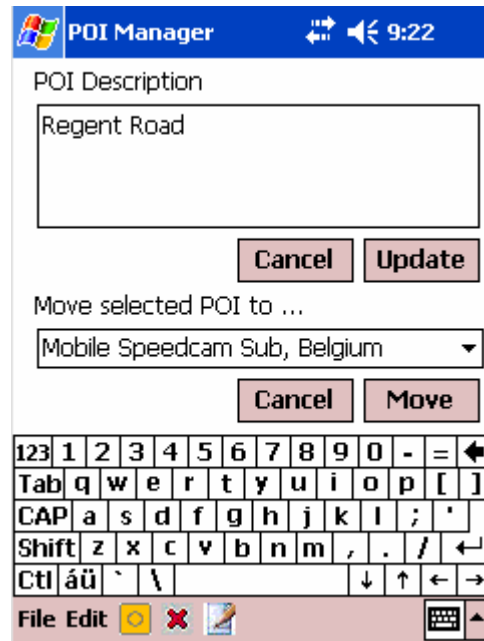
4.1.2 Edit/Description Move

Use this function to either rename a POI or move it to another OV2 file.

To Rename the POI enter a new description in the POI Description field and click Update.

To move a POI, select the new destination OV2 file in the dropdown list and click Move.

Note that you can only move POIs to OV2 files that have been included in your favorites list.



4.1.3 Edit/Delete All

This function will delete all POIs from the recorder database but NOT from the OV2 files.

4.1.4 Edit/Delete

This function will delete the selected POI File from both the recorder database and the OV2 file.

4.1.5 Toolbar buttons

The show on map, delete and Edit/Move function can also be reached by clicking on the buttons in the toolbar.

5 POIAssist

As mentioned before, the basis for POI detection is to have suitable OV2 files stored on your pocket PC. Without these OV2 files there is nothing to detect. The most common use for POI Detection is to detect speed cameras. Note that you of course can detect any type of POI (e.g. ATMs).

Fortunately POIAssist helps you to obtain these OV2 files without having to look for them and copy them on your pocket pc manually. POIAssist will take care of this in an automated fashion.

5.1 POI Sites

The main source of OV2 files are the so called POI Sites. These are websites where you can download OV2 files from. POIAssist will connect to these sites to download OV2 files. Currently about four POI Sites have been preconfigured in GPSAssist. You can add many more if needed.

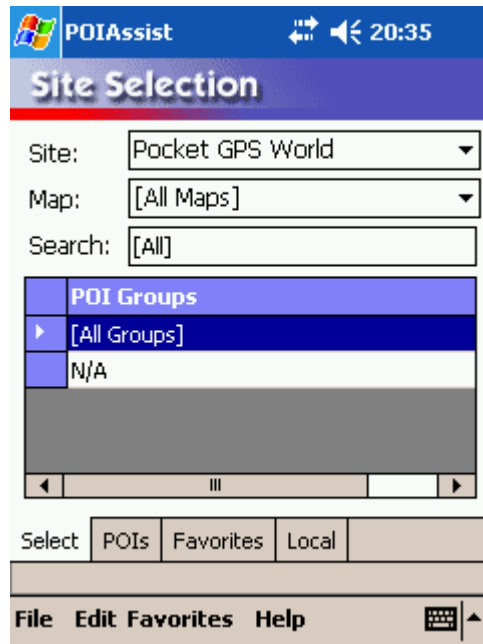
- **Pocket GPS World:** Free and does not need a username and password (<http://www.pocketgps.co.uk>)
- **POIHandler:** Not free and does need a username and password (<http://www.poihandler.com>)
- **Flitspaal.nu:** Free and does need a username and password (<http://www.flitspaal.nu>)
- **GPSAssist sounds:** Free and does not need a username and password. This site is different from the first three as this site provides you with alert sounds (wav files)

5.2 Starting POIAssist

It's important to know that your PPC needs to be able to reach the internet. In almost all cases this is no problem if your PPC is cradled. You PPC can also be connected to the internet over a wireless network (WiFi) or via GPRS (Cellular phone).

To start POIAssist you can either select [\[start/programs/POIAssist\]](#) on your pocket pc or from within GPSAssist, you can select [\[File/POIAssist\]](#).

The first time you start POIAssist you will be informed that you don't have an index yet for the selected POI Site which by default will be Pocket GPS World. You may tap ok here to start the index download or click cancel to do it later.



5.3 Downloading a site index

To download a site index select [\[File/Refresh Index Selected Site\]](#) from the POIAssist menu. For GPSAssist to know which OV2 files are available from a certain site you need to download the index. For some sites this can take several minutes but don't worry as you only have to do this once in maybe 2 or 3 months time (or if you know that new maps and/or groups have been added).

5.4 Downloading an OV2 file

Once you've downloaded the site index you can select an OV2 file to download.

To do that you can select the map and group on the main screen. Then click on the POIs tab. You will now see a list of available OV2 files in the selected map and group. You may optionally also enter a search term on the first tab window.

Highlight the OV2 file you want to download and click on the green down arrow. The download will now start. POIAssist will download both the OV2 file and the BMP file.

The OV2 file is now ready for use by the POI Detector. All you need to do is to make it active for detection and optionally alter the detection parameters.



5.5 Adding an OV2 file to your favorites list

Since you most probably will be using more than one OV2 file and in most cases always of the same type, POIAssist offers you the possibility to add frequently used POI Files to your favorites list.

The advantage is that you can download several POI files at once and that you can opt to download only POI files that are older than a certain amount of days (configurable). This way you can keep your most frequently used OV2 files up to date with the click of a button.

Also note that you can only record to an OV2 file if it is in your favorites list.

To add an OV2 file to you favorites list, highlight the OV2 file on the POIs tab and click the + button. When you tab the Favorites tab you will notice that the OV2 file has been added. The first column of the grid shows you when the OV2 file was downloaded last (download from favorites).



5.6 Deleting an OV2 file from your favorites

To delete an OV2 file from the favorites list, highlight it on the favorites tab and click the x button. Not that this action does NOT delete the OV2 file itself. You will find it back on the Locals tab.

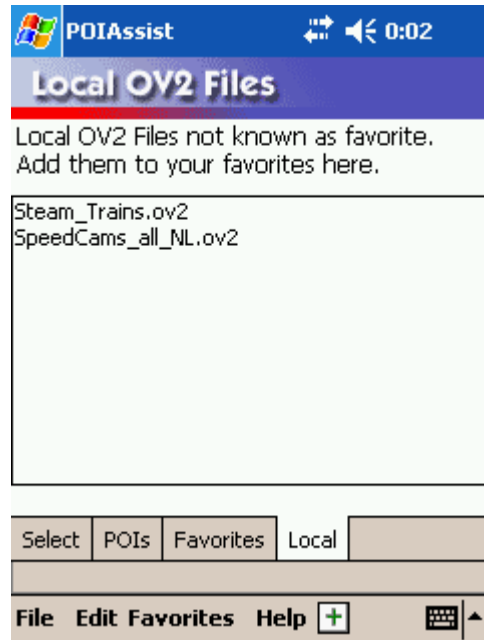
5.7 Downloading from your Favorites list

Similar to direct downloads, you can also download a single OV2 file which is listed in your favorites. To do so, highlight the OV2 file and click the green down arrow.

5.8 The locals tab

When you click on the locals tab, you will get a list of all OV2 files that are stored in the current TTN map but are not known as favorites. You can add these local files to your favorites list too. Of course local files are never downloaded. Most of the time the files listed in the locals tab are manually copied there or directly downloaded.

Local files add to the favorites list by default get "local" assigned to the map and group.



6 RouteAssist

RouteAssist is the third module that comes with GPSAssist.NET and allows you perform point to point navigation.

The Current version of TomTom (version 3 at the time of this writing) also allows you to do point to point navigation but has a limit of 16 waypoints.

RouteAssist does not have this limit.

RouteAssist in fact is the tool used to manage your routes. Later these routes can be driving using GPSAssist and the Routes function.

You can start RouteAssist by clicking on the RouteAssist icon in [Start/Programs] on your Pocket PC or by selecting [File/RouteAssist] in GPSAssist.NET.



6.1 Importing Routes

The easiest way to get routes into RouteAssist, ready for you to drive, is to import them. Numerous websites are offering pre made (touristic) routes in several formats. Of course you are free to create your own routes either by using RouteAssist or by using route planners on your PC. Following is a list of all route formats which can be imported into RouteAssist.

6.1.1 Garmin Mapsource (MPS)

Several websites are offering GPS Routes in the so called MPS format. One example of such a site is <http://www.gpstracks.nl>. MPS Files (or **Garmin Mapsource Files**) hold routes that you can navigate. Most of these routes contain more than 100 waypoints or points that you need to drive by.

To import an MPS file...

- Make sure that you have copied the MPS file on your pocket pc (for example in My Documents).
- Select [File/Import/Garmin Mapsource]
- Select the MPS file

RouteAssist will now import the MPS file. After this you are ready to drive the route using the Routes button in GPSAssist. Later in this chapter you can find details on how to use the Routes function.

6.1.2 TomTom POI Files (OV2)

Next to Garmin Mapsource files you can also import plain OV2 files.

The difference between MPS files and OV2 files is that MPS files have a strict order in which the waypoints need to be navigated while OV2 files don't have this order. The order of the waypoints depends on how they were recorded in the OV2 file.

To import an OV2 file...

- Make sure that you have copied the OV2 file on your pocket pc (for example in My Documents).
- Select [\[File/Import/TomTom POI \(OV2\)\]](#)
- Select the MPS file

6.1.3 TourExchange (XML)

Another supported format is the TourExchange format (XML). This format is used by applications as Routen Planer.

To import an XML file...

- Make sure that you have copied the XML file on your pocket pc (for example in My Documents).
- Select [\[File/Import/TourExchange \(XML\)\]](#)
- Select the XML file

6.1.4 Comma separated (CSV)

The CSV format allows you to easily edit your own routes using applications as Microsoft Excel and notepad. The CSV files that are recognized need to have following format

[Description ; Latitude ; Longitude](#)

Both Latitude and Longitude need to be in millionths of degrees. Below is an example of a good CSV file

[Start ; 52123123 ; 4123123 ; Start](#)
[Turn left at end of the road ; 52123125 ; 4123125](#)
....

To import a CSV file...

- Make sure that you have copied the CSV file on your pocket pc (for example in My Documents).
- Select [\[File/Import/Semicolon Separated \(CSV\)\]](#)
- Select the CSV file

6.1.5 TRK Format (TRK)

Sometimes, routes are provided in the TRK format. RouteAssist is also capable of importing that format.

To import a TRK file...

- Make sure that you have copied the TRK file on your pocket pc (for example in My Documents).
- Select [\[File/Import/TRK Format \(TRK\)\]](#)
- Select the TRK file

6.2 Exporting Routes

When you have created a new route or modified an existing one you have the option to export your route to a number of formats. This allows you to share your routes with other people (who are not necessarily using GPSAssist).

Below is an overview of the current list of formats you can exports routes in

6.2.1 TomTom POI (OV2)

To export to an OV2 file...

- In RouteAssist, select the route that you want to export
- Select [\[File/Export/TomTom POI \(OV2\)\]](#)
- Accept the default name or enter another one and click ok

6.2.2 Comma Separated (CSV)

Exporting to this format will for instance allow you to open the route in Excel. For the format of the CSV file see the chapter on importing CSV files.

To export to a CSV file...

- In RouteAssist, select the route that you want to export
- Select [\[File/Export/Comma Separated \(CSV\)\]](#)
- Accept the default name or enter another one and click ok

6.3 Creating your own Route

Next to importing existing routes you can also create your own route as follows

- Select [\[Edit/New Route\]](#) to create a new empty route
- Give your new route a new (for example: My Route)
- Select [\[Edit/Add New Waypoint/From TTN\]](#). If TTN is not started yet, RouteAssist will start it for you.
- In TTN go to map view and locate your first waypoint (address lookup or any other method)
- Tap and hold the location
- Select [\[Add as point of interest\]](#)
- Enter 'Import' in the Type field (do not add the OV2 extension)
- Optionally give the waypoint a description and click ok

RouteAssist will popup and you will see that the location has been added as a waypoint in your new route.

Repeat this procedure (File/Add...) to add each of the waypoints in your new route.

6.4 Alternative methods to create a Route

6.4.1 Using the 'on the road' recording method

Use this method if you want to create a route as you are on the road.

- In the GPSAssist Main Menu click [\[File / General Settings / Buttons\]](#) and set one of your hardware buttons to the function 'Record to Route'.
- Click [\[File/Done\]](#) to return to the Main Menu.
- Click [\[File/RouteAssist\]](#) and then [\[File/New Route\]](#). Give the Route a name, like MyRoute
- Click [\[File/Exit\]](#)

In the GPSAssist Main Menu click the 'Routes' icon. In the Routes screen click the small green down arrow to refresh the available routes and choose the route we just made (MyRoute) Click Main Menu and go to the Navigator.

Now start driving your route.

When you are at a place that you want to use as a waypoint for your route, press the predefined hardware button to record the waypoint into the route.

Drive to your next waypoint and press the hardware button again, and so on. This route will remain in the database until you delete it. In one of the next releases of RouteAssist it will be possible to export the route so you can share it with your friends.

6.4.2 Using the OV2 'at home' recording method

With this method we create a new OV2 file in the TTN map folder which can be imported in RouteAssist later. For this method it is not necessary to be on the road.

- Start TTN and switch to the Map mode.
- Here search the location of your first waypoint.
- Tap and hold the location until the menu appears.
- Click [\[Add as point of interest\]](#).
- Select [<new type>](#) and give the OV2 file a name of your choice in the second field.
- Click OK.
- Back in the map view of TTN select the second waypoint and [Add as point of interest](#) again. Now choose the POI file you just created and press ok.

Continue this for the rest of your route. When your route creation is finished you can import the OV2 file into RouteAssist as explained earlier.

Note: You can also enter one of your favourites or Points of interest into the ov2-file as follows:

- Switch to and tap the Navigator screen
- Choose the 'Search' button and click an item, e.g. Favorites.
- Here choose your favorite and press 'Add as Point of Interest'
- Enter the POI into the ov2 as above explained.

This way you can also enter a restaurant, an address or your Home.

6.5 Deleting a Route

To delete a route, select it on in the dropdown list on top of the window and select [\[File/Delete Route\]](#)

6.6 Cleaning a Route

Most of the time routes that you have imported contain way too much WayPoints which are all positioned close to each other (e.g. 200 Meters). When you navigate a route like this, TTN will be recalculating destinations all the time.

To make sure that WayPoints are not too close to each other you can use the **Clean Route** function. To use this function do following ...

- Select the route that you want to clean
- Select [\[File/Clean Route/300 Meters\]](#) or another option

The route will now be cleaned.

If you would have selected the **300 Meters** option, RouteAssist will have cleaned the route to make sure that none of the WayPoints are closer to each other than 300 meters.

6.7 Other Functions

6.7.1 Edit/Show On Map

Use this function to show the select waypoint on the TTN map

6.7.2 Edit/Navigate To

Use this function to navigate to the selected waypoint

6.7.3 Edit/Waypoint

Use this function to alter the description of the selected waypoint

6.7.4 Edit/Delete

Use this function to delete the selected waypoint

6.7.5 Edit/Copy

Use this function to copy the selected waypoint to the clipboard

6.7.6 Edit/Cut

Use this function to copy/delete the selected waypoint to the clipboard

6.7.7 Edit/Paste

Use this function to past a copied waypoint (only possible in the same Route)

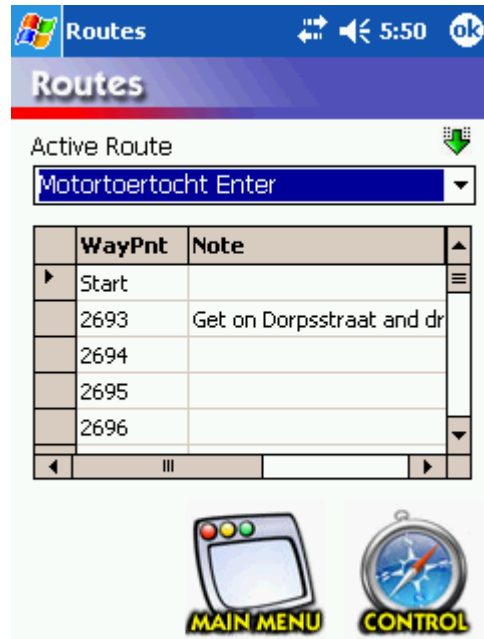
6.8 Disabling recalculation screen in TTN

When you use the route navigation make sure to disable the recalculation screen in TTN. Otherwise you will see the map overview each time a WayPoint has been reached.

7 Routes Function

Once you have created and/or imported your route you can use it in GPSAssist using the Routes function (click the Routes button in GPSAssist).

On the panel that is shown you can select the Route that you want to drive.



7.1 Control

Clicking the **Control** button will bring up the panel shown here at the right. It's here that you will control the Route Navigation.

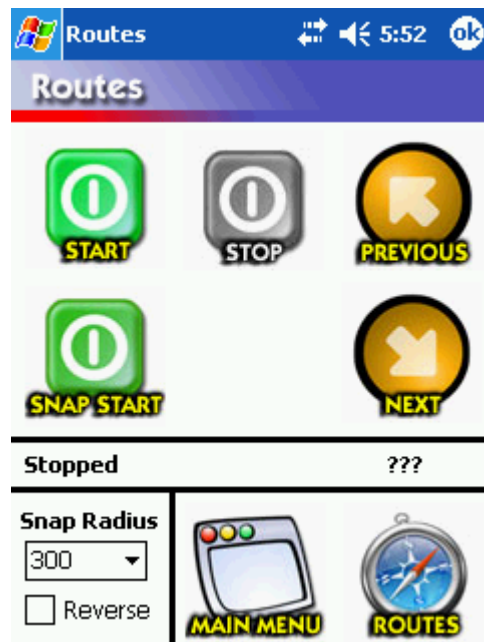
7.2 Start

Click the **Start** button to start the navigation from the currently selected waypoint. In our example this is the Start waypoint.

TTN will immediately calculate the route to this waypoint.

7.3 Stop

Click the **Stop** button to stop the Route Navigation.



7.4 Next

Click the **Next** button to navigate to the next waypoint or **Previous** to navigate to the previous waypoint in the list (note that this normally is not needed as GPSAssist will do this automatically once a waypoint has been reached).

7.5 Snap Radius

With the **Snap Radius** parameter you can tell GPSAssist how close you need to reach a waypoint before TTN should navigate to the next waypoint. A good setting for this is 300 meters.

7.6 Reverse

Select the **Reverse** option if you want to navigate the route in reverse order. Note that this is not always possible if there are waypoints located on one way roads.

7.7 Snap Start

A last option is the **Snap Start** option. This option does the same as the **Start** button with the difference that GPSAssist will first look for the closest waypoint in the route and start navigation there.