
agis

User's Manual

agisNavigator

Version 1.6.5

October 2005

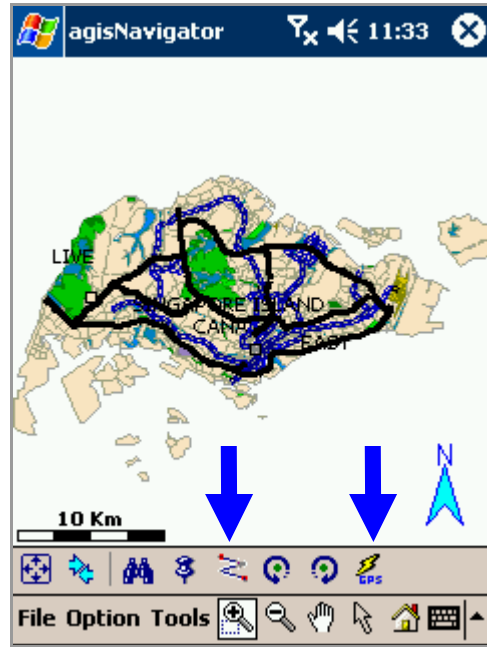
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What's new in this version?

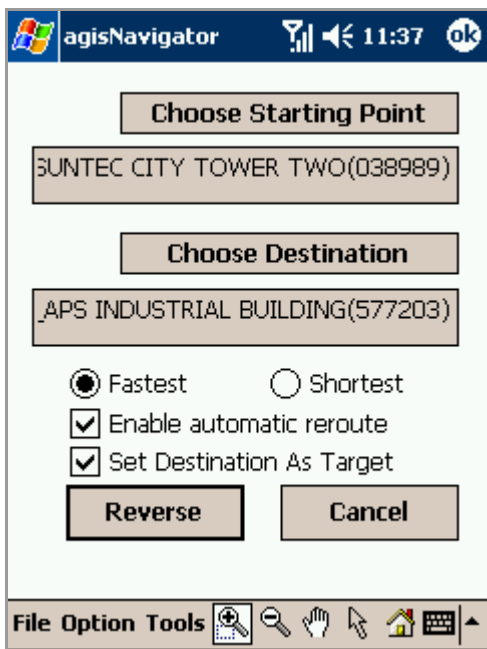
Night Mode



Quick Access



Enhanced Routing



Turn Arrows & 200m, 500m Voice Prompts



Quick Reference

File















About	Version and software creation date
Load Trace	Load previously saved GPS trace
Save Trace	Save a GPS trace to a file
Load Overlays...	Load map overlay of different country
View Overlays...	Preview, edit or unload overlays
Save All	Save all user settings
Exit	Exit program

Option







Center on GPS	Automatically center map to current location
Heading Up	Map rotates in direction of travel
Zoom to GPS	Zoom in and center map to current location
Clear Target	Clear the current target
Show GPS on ... Road	Display the road name of your current location
Show Annotation	Show details of map object
Show Trace	Display the trace of the route taken using GPS
Clear Trace	Clear trace from the map
Show Scale	Display scale bar
Show Compass	Display compass
Show Navigation Pane	Display road navigation information

Tools











Jump To	Go to user-defined latitude/longitude position
Rotate Step	Change the step angle for rotation
Measure Distance	Measure distance between points
Plan Route	Select Start point & Destination for route guidance
Send SMS	Send SMS through a the PDA phone
Vehicle Command	Send command to remote tracking device
What's Near Me	Search for nearby amenities
Tourism Information	Provide useful information for tourist
Connect to GPS	Setup connection to a GPS device
GPS Status	Display GPS status information
View NMEA Data	View incoming data from GPS device
Log GPS Data	Log data from GPS device
Playback NMEA File	Playback logged positions on the map

ICON	DESCRIPTION	FUNCTION
	Full Screen	Hides the less critical buttons to offer a larger map window size
	Switch	Extends the view toolbar
	Find	Queries a location and displays it on the map
	Waypoint	Changes the properties of waypoints
	Route	Route Planning
	Rotate	Anti-clockwise rotation
	Rotate	Clockwise rotation
	GPS	Auto-connect to pre-set GPS device
	Zoom In	Zooms into the box you drag on the map view
	Zoom Out	Zoom out
	Pan	Pans the map as you drag the point across the map view
	Select	Selects a item
	Extent	Zooms to the extent of all overlays
	Keyboard	Standard Pocket PC input. Other input methods available.

 **Switch**

	Pan left	Pan towards the left side of the map
	Pan right	Pan towards the right side of the map
	Pan up	Pan towards the top of the map
	Pan down	Pan towards the bottom of the map
	Zoom In	Zoom in at fixed scale
	Zoom Out	Zoom out at fixed scale

 **Waypoint**

	New File	Creates a new waypoint file
	Open	Opens a waypoint file
	Delete	Unload the selected waypoint or waypoint file.
	Go to	Displays the selected waypoint.
	Show/Hide	Toggles display of the waypoints.
	Link	Toggles display of the lines joining the waypoints
	Route-Start / End	Route starting point / Route ending point
	Move up	Move the selected waypoint up.
	Move down	Move the selected waypoint down.
	Target	Set target destination for directional guidance

About agisNavigator



agisNavigator is a digital street directory, which allows you to display maps on your Personal Digital Assistant. The main window in **agisNavigator** is the map window. Located at the bottom of the screen are the icons toolbar and menu commands toolbar. The icons toolbar provides zooming and panning capabilities to facilitate map navigation. Waypoints, with text labels, can be created to mark specific positions of interest on the map. Map features can be located through a simple query by keyword, after which, they are reflected in the map window.

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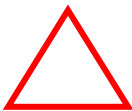
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Cautions set out in this manner indicate that failure to follow instructions might result in loss of lives.



Cautions set out in this manner indicate that failure to follow instructions might result in damage to equipment, loss of data or malfunction of the system.

Abbreviations:

PDA – Personal Digital Assistant

GPS – Global Positioning System

SMS – Short Message Service

NMEA – National Marine Electronics Association

WP – Way Point

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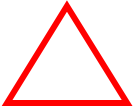
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Safety Information



Warning! For safety, the user should not operate this system while driving or in motion. The user shall be responsible for his/her own safety and adhere to all traffic rules and regulations at all times. Some map data may be outdated, incomplete or inaccurate and the user shall exercise good judgment when using the system for route guidance. agis Private Limited shall not be liable for any loss or damage caused by the usage of the system.

Important Information



1. **All programs and data will be lost** when the PDA's battery is completely drained. The user will have to re-install the agisNavigator with the installation CD and the serial number.
 2. The serial number provided with the agisNavigator is for installation on a **single PDA only**. Please keep it at a safe location. agis will not be liable for misplace or misuse of the serial number.
 3. When agisNavigator program is lost due to **loss, damage or repair of PDA**, agis will not be liable for a replacement. However, with supporting documents such as a police report or a repair invoice, replacement can be obtained. **Administrative charges will apply.**
 4. For **upgrade of PDA**, the user can bring in their old and new PDAs together with the installation CD and the serial number. We will enable the transfer of agisNavigator to the new PDA. **Administrative charges will apply.**
 5. As map data is always changing, **updates can be purchased** from our website www.asiagis.com.sg.
 6. agisNavigator has been fully tested on a limited range of PDAs in a given time frame. As PDA specification varies among models and/or batches, agis will not be liable for any **incompatibility issue**.
-

1. Getting Started

The agisNavigator is an advanced and intelligent information system that harnesses the cutting edge technology of Global Positioning System (GPS) and Geographical Information System (GIS) to provide detailed street level navigation system.

agisNavigator is developed for PocketPC PDA.

The map data can be purchased at www.asiagis.com

In this section, you will learn about:

- What are the system requirements?
- Installing the agisNavigator

1.1 What are the system requirements?

- PDA
 - PocketPC 2002 or Windows Mobile 2003
 - Memory size of about
 - ◆ Application 5MB
 - ◆ Singapore 10MB
 - ◆ Malaysia 20MB

Please contact us to have an updated list of compatible PDAs.

- Desktop or laptop
 - Pentium-class PC with Microsoft Windows Version 98, 98SE, 2000, ME or XP Operating System
 - 40MB of free disk space
 - CD-ROM drive
 - One available serial or USB port for ActiveSync
 - Microsoft ActiveSync 3.5 and above installed



Internet connection at the PC is required for online registration & software activation

1.2 Installing the agisNavigator

- Setup
 1. Install ActiveSync if it has not been installed on your computer.
 2. Connect the PDA cradle to the PC serial or USB port
 3. Place the PDA on the cradle and power on the PDA
 4. ActiveSync will initiate connection

When connecting the PDA to the PC for the first time, you will be prompted to install a driver from a CD provided with the PDA.

- Installation
 5. Insert agisNavigator installation CD
 6. Start agisNavigator installer.
 7. You have successfully installed agisNavigator onto the PDA.

2. Using agisNavigator

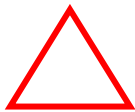
Now that you have installed agisNavigator on your PDA, you are ready for the experience of a life-time.

2.1 Beginner

When starting the agisNavigator for the first time, you will see a blank screen on the PDA. To view maps, follow the instructions below.

- **Loading map layers**
 1. Tap **File**
 2. Tap **Load Overlays**

Memory size and processor speed of PDA.



Loading large maps slows down the processing speed of the PDA. At times, PDA might hang due to overloading. You will have to perform a soft reset when this occurs. Please refer to the PDA manual for instructions to perform a soft reset. **DO NOT** perform a hard reset as all data and program will be lost

-
- **Save settings**
 3. Tap **Save All**. All your current settings will be saved.

2.2 Quick Links

- **Overlays**

[Overlays](#)
[Change Colour Properties](#)
[Visibility of Overlays](#)
[Delete Overlays](#)

- **View**

Display or hide a set of extended buttons for map manipulation.

[Pan Left](#)
[Pan Right](#)
[Pan Up](#)
[Pan Down](#)
[Zoom In](#)
[Zoom Out](#)

- **Waypoints**

Waypoints are points that can be created and displayed on the map as an icon with label attached to it. All the waypoints can be saved in a .way file.

[New Waypoint File](#)
[Open Waypoint File](#)
[Current File](#)
[Edit](#)
[Delete](#)
[Goto](#)
[Show/Hide](#)
[Link](#)
[Change Image](#)
[Move Up](#)
[Move Down](#)
[Set As Target](#)

2.3 File Menu



- **About**

A brief description of the software is given.

See Also

[About agisNavigator](#)

[About agis](#)

- **Load Trace**

Load previously saved GPS trace(s) to the program.

1. Tap **File > Load Trace**.
2. Select the trace(s) to be loaded from the list of trace (.trc) files by ticking the checkbox beside its filename.
3. Tap **ok** to load the selected file(s) or tap the **Cancel** button to exit.

See Also

[Save Trace](#)

- **Save Trace**

Save the current GPS trace to a file.

1. Tap **File > Save Trace**.
2. A file dialog box will be displayed for input of File name and Notes for the trace.

3. To change the file name or folder to save the file, tap the **Change** button. Input the new file name / folder / location and tap the **OK** button.
4. To save the trace, tap **ok**.
5. To exit without saving, tap the **Cancel** button.

See Also[Load Trace](#)

• Load Overlays...

Load **agis** country maps to the program.

1. Tap **File > Load Overlays....**
2. A file dialog box will be displayed with a list of country maps.
3. Tap the country map to be loaded. (If overlays were removed previously, the user can reload all the default layers by selecting the country map to reload).
4. To exit, tap the **Cancel** button.

See Also[Delete Overlays](#)[Managing Overlays](#)

• Overlays

Preview all the overlays that have been loaded.

Users can edit the colour settings (or display image) and toggle the visibility of the overlays.

Overlays can also be removed from the program.

1. Tap **File > View Overlays...**
2. List of all the overlays that has been loaded are shown in a table.
3. For Point overlays, tap the **Legend** field to change the display image for that overlay.
4. For Line and Area overlays, tap the **Legend** field to change the colour properties for that overlay.
5. Check/Uncheck the **Overlay Name** field of an overlay to toggle its visibility.
6. To exit, tap **ok** .

See Also[Change Colour Properties](#)

[Visibility of Overlays](#)

[Delete Overlays](#)

[Add Overlays](#)

▪ **Change Colour Properties**

Change the colour settings for any of the overlays.

1. Tap **File > View Overlays....**
 2. Tap the overlay's **Legend** field.
 3. A **Change Colour** dialog box will be displayed with RGB colour code.
 4. There are three ways to change the colour:
 - Shift the Red/Green/Blue sliders to the left or right.
 - Enter the Number code directly for Red/Green/Blue. (The values should be between 0 and 255)
 - Select a colour from the drop-down colour box.
 5. To apply the new colour, tap **ok**.
 6. To exit without applying the new colour, tap the **Cancel** button.
-

▪ **Visibility of Overlays**

Toggle the visibility of the overlays.

1. Tap **File > View Overlays...**
2. Tap the checkboxes to toggle the visibility setting of the overlays. (A check in the box means that the corresponding overlay is visible)
3. To exit, tap **ok** .

Note: **File > Save All** will not save the visibility settings.

▪ **Delete Overlays**

Delete any of the map overlays.

1. Tap **File > View Overlays...**
 2. Tap the name of the overlay to be deleted. The name will be highlighted.
 3. Tap the **Remove** button.
 4. To exit, tap **ok** .
-

See Also
[Load Overlays](#)

- **Save All**

Save all the user settings, this includes the list of overlays loaded, overlay's colour setting, waypoints, scale bar and compass. When the program next reloads, all the user settings will be preserved.

1. Tap **File > Save All**.
-

- **Exit**

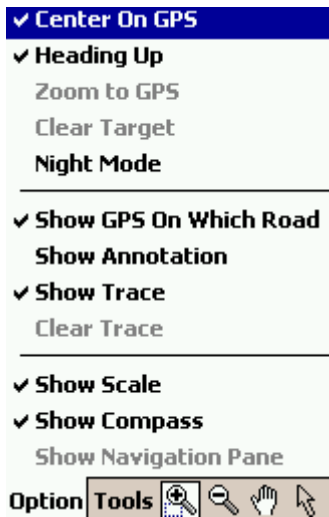
Exit **agisNavigator**.

1. Tap **File > Exit**.

Note: Remember to save the settings of the program.

See Also
[Save All](#)

2.4 Option Menu



- **Center On GPS**

Selecting this option will automatically pan the map window to the current GPS position. When the current GPS position moves to the edge of the map window, the map will automatically be refreshed to display the GPS position in the center.

1. Tap **Option > Center On GPS**.

- **Heading Up / North Up**

When there is valid GPS data input to the program, the map can be rotated to reflect the direction of travel of the user.

If map rotation is enabled, the map will be displayed such that the direction of motion of the user is pointing towards the top of the screen.

If map rotation is disabled, the map will be displayed such that the North direction is pointing towards the top of the screen.

1. To enable the rotation of map, tap **Option > Heading Up**.
2. To disable the rotation of map, tap **Option > North Up**.

- **Zoom to GPS**

Adjust the map display and show the current GPS position at the center of the map.

1. Tap **Option > Zoom to GPS**.

- **Clear Target**

Clear the current target.

1. Tap **Option > Clear Target**.
-

- **Night Mode**

Dim the screen display.

1. Tap **Option > Night Mode**.
 2. To toggle the display, repeat Step 1.
-

- **Show GPS On Which Road**

When connected to GPS, the name of the current road is displayed on the map.

1. Tap **Option > Show GPS On Which Road**.
 2. To toggle the display, repeat Step 1.
-

- **Show Annotation**

Show or Hide the additional details of point map objects. When this option is enabled, the details of point objects will be displayed on the map when the map is zoomed-in.

1. Tap **Option > Show Annotation**.
 2. To toggle the display, repeat Step 1.
-

- **Show Trace**

When connected to GPS, a trace of the route that the user has traveled is displayed on the map.

1. Tap **Option > Show Trace**.
 2. To toggle the display of the trace, repeat Step 1.
-

- **Clear Trace**

This option clears all records of the route last traveled by the user.

1. Tap **Option > Clear Trace**.
-

- **Show Scale**

Toggle the display of the scale bar shown at the bottom left corner of the screen.

1. Tap **Option > Show Scale**.
 2. To toggle the display of the scale bar, repeat Step 1.
-

- **Show Compass**

Toggle the display of the compass shown at the bottom right corner of the screen.

1. Tap **Option > Show Compass**.
 2. To toggle the display of the compass, repeat Step 1.
-

- **Show Navigation Pane**

When GPS is connected, navigation information can be displayed at the top of the screen.

1. Tap **Option > Show Navigation Pane**.
 2. To toggle the display of the navigation information, repeat Step 1.
-

2.5 Tool Menu



- **Jump To**

Translate the map to a user defined latitude/longitude position.

1. Tap **Tools > Jump To...**
2. Select the mode,
 - i) **Degrees (d.d°)**,
 - ii) **Degree/Minutes (d°m.m')** or
 - iii) **Degree/Minute/Seconds (d°m's")**.
3. Select the direction of the latitude (North or South) and longitude (East or West).
4. Enter the latitude and longitude values.
5. To create a waypoint on jumping to that position, tick the **Creating Waypoint** checkbox.
6. To jump to the position, tap the **Jump To** button.
7. To exit, tap the **ok** button.

- **Rotate Step**

Set the step size for map rotation.

1. Tap **Tools > Rotate Step...**
2. Enter the new value for the angle of clockwise rotation.
3. To restore default settings, tap the **Default** button.
4. To save the new value and exit, tap **ok**.
5. To exit without changes, tap the **Cancel** button.

- **Measure Distance**

Measure the actual ground distance(s) between 2 (or more) points on the map.

1. Tap **Tools > Measure Distance**.
 2. A popup bar will appear at the top right corner of the screen.
 3. Tap the first position on the map.
 4. Tap the second position on the map.
 5. The measured distance will be displayed.
 6. To continue with the measurement, tap another position(s) to continue. The total distance from the first position will be shown.
 7. To start a new measurement, tap the **New** button.
 8. To exit from measurement mode, tap the **X** button.
-

- **Plan Route**

Plan the route to take during travel between a start and end location.

1. Tap **Tools > Plan Route**.
2. A **Planning** screen will be displayed.
3. Select a starting point.
4. Select a destination
5. Select either the “fastest” or “shortest” routing option.
6. Select whether to enable automatic reroute.
7. Select whether to set the destination point as a target.
8. Tap the **Reverse** button to reverse the starting and destination points.
9. To cancel, tap the **Cancel** button.

See Also
[Routing](#)

- Advance User Only -

- **Send SMS**

Send a SMS through the active SMS connection.

1. After a SMS connection is established, tap **Tools > Send SMS...**
 2. In the **Send SMS** screen, enter the contact number of the recipient by filling up the text box on the top-left of the screen.
 3. Tap the -> button to create new contact information.
 4. Alternatively, select a name from the list of available contacts in the drop-down list on the top-right of the screen.
 5. Fill in the message to be sent. (Maximum message length is 160 characters)
 6. Tap the **Send** button to send the message.
-

7. To Cancel without sending message, tap the **ok** button.

- Advance User Only -

- **Vehicle Command**

Send Vehicle Command SMS to an agis GPS tracking device. (Please contact agis to find out more about tracking devices)

1. After a SMS connection is established, tap **Tools > Vehicle Command...**
2. In the **Vehicle Command** screen, first select the Asset type.
3. Next, select the recipient from the drop-down list.
4. Tap **Locate Asset** to retrieve latitude and longitude position of the selected asset.
5. Tap **Lock Asset** to lock the asset.
6. Tap **Unlock Asset** to unlock the asset.
7. Tap **Enable Asset** to enable tracking of the asset.
8. Tap **Disable Asset** to disable tracking of the asset.
9. To exit, tap the **ok** button.

- Advance User Only -

- **What's Near Me**

Find out what is near your proximity. Your present location is based on the GSM Base station. (This service requires subscription with your telco)

1. Tap **Tools > What's Near Me**.

- Advance User Only -


- **Tourism Information**

A new window will be shown to display Tourism Information. (Only for subscriber)

1. Tap **Tools > Tourism Information**.

- **Connect to GPS**

Setup the connection to a GPS device.

1. Tap **Tools > Connect GPS** or tap the  button (enabled if GPS settings have been set).

2. At the **Data Connection Settings** screen, select the **Port** from the list of available connections.
3. Select the appropriate **Baud rate** for the selected connection.
4. Tap **ok** to confirm the settings and connect to the selected GPS device.
5. To Cancel, tap the **Cancel** button.

Note: An icon will be placed at the bottom right of the screen to indicate the status of the GPS position fix.

See Also

[Disconnect GPS](#)
[GPS Status](#)
[View NMEA Data](#)

- **Disconnect GPS**

Disconnect from the GPS device.

1. To terminate an active GPS connection, tap **Tools > Disconnect GPS**.
-

- **GPS Status**

Display GPS status information based on data received from the GPS receiver.

1. After a GPS connection is established, tap **Tools > GPS Status...**
2. Tap the **Position** tab to view the current position information.
3. Tap the **Skyplot** tab to view the position of the satellites in the sky.
4. Tap the **Signal Strength** tab to view the signal level of signals received from the satellites.
5. To exit, tap **ok**.

See Also

[View NMEA Data](#)

- **View NMEA Data**

Allow the user to view the NMEA message received from the GPS device.

1. After a GPS connection is established, tap **Tools > NMEA Data...**
 2. In the **View NMEA Message** screen, NMEA messages received from the GPS device is displayed in a scrollable list.
-

3. To pause the updating of the list, tick the **Pause** checkbox.
4. To resume the updating of the list, un-tick the **Pause** checkbox.
5. To exit, tap **ok**.

See Also

[Log GPS Data](#)

[GPS Status](#)

▪ **Log GPS Data**

NMEA data received from the GPS device can be saved to a file on the PDA.

1. Tap **Tools > Log GPS Data...**
2. At the **Logging GPS Data** screen, select either
 - **Full GPS Data** logging or
 - **Partial GPS Data** logging.
3. The **Full GPS Data** logging option will log all NMEA data received from the GPS device.
4. The **Partial GPS Data** logging option allows selective logging from a choice of 5 predefined NMEA data types.
The logging interval can also be selected.
5. A default filename for the GPS log file is displayed.
To change this filename, tap the name to edit it directly or tap the **Change** button.
6. Tap the **Start logging** button to begin logging of GPS data.
7. To exit without logging, tap **ok**.

See Also

[View NMEA Data](#)

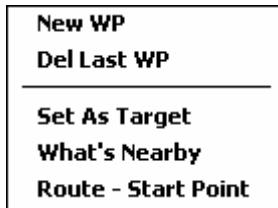
[GPS Status](#)

▪ **Playback NMEA File**

Retrieve GPS data from a NMEA log file and display the positions in the log file as a route on the map.

1. Tap **Tools > Playback NMEA File**.
2. A **Open** file dialog will be shown for selection of a NMEA log file.
3. Select a file by tapping on its name.
4. The positions in the file will be shown as a route on the map.
5. To stop the playback, tap **Tools > Stop Playback**.

2.6 Map Menu



- **How to display the Map Menu**

To display the Map Menu, tap a location on the map and hold the stylus down for about 2 seconds.


- **Map > New WP**

Creates a new waypoint at the current map location.

1. Tap a location on the map and hold the stylus down for about 2 seconds.
 2. Select **Map > New WP** from the map menu.
 3. A new waypoint will be created at the current location and added to the current waypoint file.
-

- **Map > Set As Target**

Set the current screen location as the target for GPS navigation.

1. Tap a location on the map and hold the stylus down for about 2 seconds.
 2. Select **Map > Set As Target** from the map menu.
 3. The current screen location will be set as the target for GPS navigation and a target icon  will be shown at this location.
-

- **Map > What's Nearby**

Allows the user to search for map items in the vicinity of the current screen location.

1. Tap a location on the map and hold the stylus down for about 2 seconds.
 2. Select **Map > What's Nearby** from the map menu.
 3. Select the **Search Range** from the drop-down list.
 4. Select one or more type of **Amenities** to search for by ticking the checkbox beside the name of the Amenity.
 5. Tap **Search** to start searching.
 6. The result of the search will be listed.
(If no result is found, the list will be empty.)
 7. To view an item on the map, tap the item's name to select it, then tap the **Go To** button to go to the map view.
 8. To view all the listed items on the map at the same time, tap the **View All** button to go to the map view.
 9. To search again, tap the **Back** button. Then repeat Steps 3 to 5.
 10. To exit without selecting any item, tap **ok**.
-



- **Routing**

Allows the user to obtain a recommended route between 2 locations on the map.

In order to perform a route computation, a start location and an end location must be selected.



Selecting the Start Location

There are 4 methods to select the start location:

1. Tap the **Tools > Plan Route** option to access the full route planning window.
2. Tap the intended start location of the route in the map view and hold the stylus down for about 2 seconds.
Next, select **Map > Route - Start Point** from the map menu to set this location as the start location.
3. Perform a **Find** operation.
In the search results list, tap the name of the desired item to select the item.
Tap on the name of this item and hold the stylus down for about 2 seconds.
Select **Set Route Start Point** from the pop-up menu.
4. Tap the **Waypoints** button. 
Select the waypoint to be set as the start location.
Tap on the start route button. 
Select **Set Route Start Point** from the pop-up menu.

Selecting the End Location

Similarly, there are 4 methods to select the end location:

1. Tap the **Tools > Plan Route** option to access the full route planning window.
2. Tap the intended end location of the route in the map view and hold the stylus down for about 2 seconds.
Next, select **Map > Route - End Point** from the map menu to set this location as the start location.
3. Perform a **Find** operation.
In the search results list, tap the name of the desired item to select the item.
Tap on the name of this item and hold the stylus down for about 2 seconds.
Select **Set Route End Point** from the pop-up menu.
4. Tap the **Waypoints** button. 
Select the waypoint to be set as the start location.
Tap on the end route button. 
Select **Set Route End Point** from the pop-up menu.

Computing the Route

1. After selecting the Start and End locations, a **Routing Setting** window will be displayed.
2. Select the routing method (either Fastest or Shortest route).
3. Tap the **Start** button to start the route computation.
4. Once the route computation is completed, the recommended route will be displayed on the map.

Note:

- To perform another route computation, select **Map > Clear routing** from the Map Menu to clear the current route display. Then select the new Start and End Locations.
- If a GPS device is connected and the user travels along the recommended route, voice turning instructions will be given at the 500m, 200m junctions and before the junction itself. In addition, turn directions will be clearly displayed on the map screen.

See Also [Routing](#)

- Advance User Only -

▪ **Map > Send Pos To...**

Allows the user to send his current position to the intended recipient. This function is only available for PDA with built-in phone functionalities.

1. Tap a location on the map and hold the stylus down for about 2 seconds.
 2. Select **Map > Send Pos To...** from the map menu.
 3. In the **Send Current Position To...** screen, enter the contact number of the recipient by filling up the text box on the top-left of the screen.
 4. Tap the -> button to create new contact information.
 5. Alternatively, select a name from the list of available contacts in the drop-down list on the top-right of the screen.
 6. Tap the **Send** button to send the message.
 7. To Cancel without sending message, tap the **ok** button.
-



2.7 Lower Toolbar





- **Zoom In**

There are two ways of zooming into a map window.



First Method

1. Tap the **Zoom In** button  and the button will remain depressed.
2. Draw a box on the map window and the window will zoom into the area selected.
3. To exit zoom in mode, tap the **Select** button. 



Second Method

1. Tap the **Zoom In** button  and the button will remain depressed.
2. Tap on the map window where you want to zoom in. This will zoom in by a factor of 2.
3. To exit zoom in mode, tap the **Select** button. 

- **Zoom Out**


1. Tap the **Zoom Out** button  and the button will remain depressed.
2. Tap on the map window. This will zoom out by a factor of 0.5.
3. To exit zoom out mode, tap the **Select** button. 

- **Pan**

1. Tap the **Pan** button  and the button will remain depressed.
2. Drag over the map window to do a pan operation.
3. To exit pan mode, tap the **Select** button. 

- **Select**

Disable zoom in, zoom out and pan operations.
Enable selection of items in a map window.

1. Tap the **Select** button  on the toolbar.
 2. Tap on any item on the map.
 3. The attributes of the item selected will pop-up as a message box.
-

- **Home**

-  Zooms to the extent of all overlays.
-

2.8 Upper Toolbar




- **Fullscreen**

Hides some of the less critical buttons and menus to offer a larger map window size.

- **Find**

Query a location or map feature and reflect it on the map.

1. Tap the **Find** button. 
 2. Select the layer that you want to query from the drop-down list.
(To search all map layers, tick the **All** checkbox)
 3. Enter a keyword in the text box.
 4. Tap the **Search** button.
 5. The search result will be listed in the text area at the bottom of the screen.
(If there is no result, there will be a message "Sorry, No item found".)
 6. Highlight the location you wish to see on the map.
 7. To create a waypoint at the selected location, tick the **Creating WP** checkbox.
 8. To set the selected location as a target for navigation, tick the **Set As Target** checkbox.
 9. Tap the **Go To** button and this location will be displayed on the map.
 10. Alternatively, to view All the items found in Step 5 on the map at the same time, tap the **View All** button.
-

- **Plan Route**

Direct access to the Plan Route function. Similar to the **Tools > Plan Route** function.

1. Tap the **Plan Route** button. 

See Also
[Plan Route](#)

- **Rotate Anti-clockwise**

Rotate the map view anti-clockwise by the amount specified in **Tools > Rotate Step...** .

- **Rotate Clockwise**

Rotate the map view clockwise by the amount specified in **Tools > Rotate Step...** .

- **GPS Connection**

Enables automatic connection to the configured GPS device (if previously configured).

Similar to the **Tools > Connect to GPS** function.

1. Tap the **GPS connection** button. 




See Also

[Connect To GPS](#)




- **View > Pan Left**

Shifts the view of the map to the left.

1. Tap the **View** button. 
 2. Tap the **Pan Left** button  to move the map.
 3. To exit, Tap the **View** button. 
-


- **View > Pan Right**

Shifts the view of the map to the right.

1. Tap the **View** button. 
 2. Tap the **Pan Right** button  to move the map.
 3. To exit, Tap the **View** button. 
-

- **View > Pan Up**

Shifts the view of the map upwards.

1. Tap the **View** button. 
 2. Tap the **Pan Up** button  to move the map.
 3. To exit, Tap the **View** button. 
-




- **View > Pan Down**

Shifts the view of the map downwards.

1. Tap the **View** button. 
 2. Tap the **Pan Down** button  to move the map.
 3. To exit, Tap the **View** button. 
-




- **View > Zoom In**

Zooms in by a factor of 2.

1. Tap the **View** button. 
 2. Tap the **Zoom In** button. 
 3. To exit, Tap the **View** button. 
-

- **View > Zoom Out**

Zooms out by a factor of 0.5.

1. Tap the **View** button. 
 2. Tap the **Zoom Out** button. 
 3. To exit, Tap the **View** button. 
-

2.9 Waypoint




- **Waypoints > Create**

There are four methods to add waypoint to the default waypoint file.

First Method

1. Use the **Find** feature.


Second Method

1. Hold the stylus over a position on the map window for a second.
2. Select "**New WP**" from the pop-up menu and a new waypoint will be created with a default icon.
3. Tap the **Waypoints** button  to edit the waypoints.

Third Method

1. Use the **Jump To** feature.

Fourth Method

1. When connected to a GPS receiver and there is a position fix, tap the **Satellite** button  to create a way point at the current location.

See Also

[Waypoints > Edit](#)


[Find](#)

[Jump To](#)

[Connect To GPS](#)

- **Waypoints > Edit**



Edit the name of waypoint and add notes to waypoint.

1. Tap the **Waypoints** button. 
2. Select the waypoint to be edited.
3. Edit the name of the waypoint from the text box.
4. User can also add notes at the text area.

See Also[Waypoints > Create](#)

Waypoints > New Waypoint File



Create a new waypoint file to store the waypoints.

1. Tap the **Waypoints** button. 
2. Tap the **New Waypoint File** button. 
3. A **Save As** window will appear for you to specify the file name and the location to save the new file.
4. To confirm the file name, tap the **OK** button.
5. This new waypoint file will automatically become the "Current File" where new waypoints are stored.

See Also[Waypoints > Open Waypoint File](#)[Waypoints > Delete](#)[Waypoints > Current File](#)

Waypoints > Open Waypoint File


Loads agis waypoint files. The default waypoint file is "general.way".

1. Tap the **Waypoints** button. 
2. Tap the **Open Waypoint File** button. 
3. Select the waypoint file to be loaded.

See Also[Waypoints > New Waypoint File](#)[Waypoints > Delete](#)

Waypoints > Current File

All new waypoints are added to the Current waypoint file. If there are more than one waypoint file loaded, only one file can be made Current.



1. Tap the **Waypoints** button. 
2. Select the waypoint file to be made Current.
3. Tick the **Current File** checkbox to make the selected waypoint file as the Current File.

See Also[Waypoints > New Waypoint File](#)[Waypoints > Open Waypoint File](#)



▪ Waypoints > Delete

Delete individual waypoint or remove waypoint file.

Delete a waypoint

1. Tap the **Waypoints** button. 
2. Select the waypoint to be deleted.
3. Tap the **Delete** button. 
4. Tap **Yes** to confirm the deletion of the selected waypoint.

Remove a waypoint file

1. Tap the **Waypoints** button. 
2. Select the waypoint file to be removed.
3. Tap the **Delete** button. 
4. Tap **Yes** to confirm the removal of the selected waypoint file.



Note:

The waypoint file is unloaded but is not deleted from memory. The same waypoint file can be loaded again if desired.

See Also[Waypoints > New Waypoint File](#)[Waypoints > Open Waypoint File](#)




▪ Waypoints > Goto Waypoint

Redraw the map to display the selected waypoint.

1. Tap the **Waypoints** button. 
 2. Select the waypoint of interest.
 3. Tap the **Goto Waypoint** button. 
 4. The map view will be adjusted to display the selected waypoint.
-

▪ Waypoints > Show/Hide

Toggles the display of the waypoints on the map.




1. Tap the **Waypoints** button. 
2. Select the waypoint of interest.
3. If the selected waypoint is currently visible , tap this button to turn it invisible.
4. If the selected waypoint is currently invisible , tap this button to turn it visible.

Note:

To toggle the display state of all waypoints in a waypoint file, select the waypoint file in Step 2.

- **Waypoints > Link/Unlink**

Toggles the display of the lines joining the waypoints on the map.

1. Tap the **Waypoints** button. 
2. Select the waypoint or waypoint file of interest.
3. If the waypoints in the selected waypoint file is currently linked , tap this button to unlink them.
4. If the waypoints in the selected waypoint file is currently unlinked , tap this button to link them.

- **Waypoints > Change Image**

Change the display image for a waypoint or waypoint file.



1. Tap the **Waypoints** button. 
2. Double tap on the waypoint of interest.
3. Select the new image for the waypoint.

Note:

To change all the waypoints in a waypoint file to the same image, select a waypoint file instead of a single waypoint in Step 2.

- **Waypoints > Move Up**

Move the position of a waypoint forward within a waypoint file.



1. Tap the **Waypoints** button. 
2. Select the waypoint of interest.
3. Tap the **Move Up** button. 

Note:

If the selected waypoint is the first waypoint in the waypoint file, its position will not be changed.

▪ Waypoints > Move Down

Move the position of a waypoint backwards within a waypoint file.

1. Tap the **Waypoints** button. 
2. Select the waypoint of interest.
3. Tap the **Move Down** button. 

Note:

If the selected waypoint is the last waypoint in the waypoint file, its position will not be changed.

▪ Waypoints > Set As Target

Set a waypoint as a target for GPS navigation.

A line joining the current GPS position and the target will be shown on the map.


1. Tap the **Waypoints** button. 
2. Select the waypoint of interest.
3. Tap the **Set As Target** button. 

See Also

[Clear Target](#)

▪ Attributes

View the attribute of an selected item.

1. Tap the **Select** button. 
2. Tap on any item on the map.
3. It's attribute will be displayed on the screen in the form of a pop up box.

APPENDIX A – Troubleshooting

Installation error		
Error Message	Cause	Solution
No license file is found.	>incomplete installation >license file was deleted	>reinstall
License is illegal.	>license file is corrupted	>reinstall
The license is not for this PDA.	>installation serial number is registered under another device	>purchase new serial number
The license file is invalid.	>wrong version	>contact us
Routing error		
Error Message	Cause	Solution
Limit Exceeded	>resource exceeded	>re-route via fastest option >shorten route
At least one selected point is outside routing area!	>missing rtl file >invalid routing start/end point	>reinstall >select a start/end point on a valid road
route.bin not found	>missing bin file	>restart application, if not >reinstall

APPENDIX B – Optional Accessories



Bluetooth GPS receiver



Car PDA holder