OnCourse

# User's manual
# OnCourse Navigator | 4

as on October 2004

**Impressum**

Easy PocketNAV.com LLC.
6050 Peachtree PKWY
STE 240-328
Norcross, GA 30092

The information contained herein may be changed at any time without prior notification. This manual nor any parts thereof may not be reproduced for any purpose whatsoever without the express written consent of Easy PocketNAV.com LLC, nor transmitted in any form either electronically or mechanically, including photocopying and recording.
© Copyright 2004, Easy PocketNAV.com LLC
All rights reserved.

# Table of contents

**1 Introduction ..... 3**

1.1 Important safety information ..... 4
1.1.1 Safety information on navigation ..... 4
1.1.2 Safety information on the GPS receiver ..... 5
1.1.3 Safety information on the installation in the vehicle ..... 5
1.2 Search facilities and conventions ..... 6
1.3 Liability ..... 6
1.3.1 Support ..... 7
1.4 Trademarks ..... 7

**2 Installation and quick-start guide ..... 9**

2.1 Operating mode of your navigation system ..... 10
2.1.1 Hardware components at large ..... 10
2.2 Installation of the navigation system ..... 12
2.2.1 Software installation on your PC and on your Pocket PC (Case A) ..... 13
2.2.2 Software installation on your Pocket PC (Case B) ..... 14
2.2.3 Transferring a map extract to your Pocket PC (Case A) 14
2.2.4 Software registration and activation ..... 15
2.2.5 Installation in the vehicle ..... 16
2.2.6 Starting navigation ..... 20

**3 Operating the navigation software ..... 23**

3.1 Starting OnCourse Navigator ..... 24
3.1.1 Basic settings ..... 25
3.2 User interface and basic functionality ..... 27
3.2.1 Icons ..... 27
3.3 Indicating destinations ..... 30
3.3.1 Entering a destination manually ..... 31
3.3.2 Selecting a Point of Interest ..... 33
3.3.3 Selecting destinations from the Outlook contacts list 37
3.3.4 Indicating destinations on the map ..... 39
3.3.5 Saved destinations ..... 41
3.3.6 Recent destinations ..... 42
3.3.7 Save and use your home address ..... 43
3.3.8 Voice command ..... 44
3.4 Working with the map ..... 45
3.4.1 Operating the map ..... 46
3.4.2 Representation of the map in navigation mode ..... 50
3.4.3 Displaying additional information on the map ..... 52

**4 Navigation and Itinerary planning ..... 55**

4.1 General notes on navigation ..... 56
4.2 Navigating to a destination ..... 57
4.3 Navigating to several destinations (Itinerary planning) ..... 59
4.3.1 Working on itineraries, storage and management ..... 61
4.3.2 Simulating the route ..... 62
4.4 Functions which are useful for navigation ..... 63

4.4.1 Displaying the route list ..... 63
4.4.2 Adding a stage point during navigation ..... 64
4.4.3 Blocking a route section ..... 65
4.4.4 Keeping the logbook ..... 66

**5 Additional software: MapExport ..... 69**

5.1 Functionality of MapExport ..... 70
5.1.1 Map export and transfer ..... 70
5.1.2 Transfer of Standard map extracts ..... 70
5.2 User's interface and basic functionality ..... 71
5.2.1 Starting MapExport ..... 71
5.2.2 Operating elements ..... 73
5.2.3 Hot keys ..... 74
5.2.4 Structure of the windows ..... 75
5.3 Working with maps ..... 76
5.3.1 Loading and displaying maps ..... 76
5.3.2 Icons ..... 78
5.4 Exporting segments of the map ..... 80
5.4.1 Corridor surrounding an itinerary ..... 80
5.4.2 Area ..... 89
5.5 Transferring segments of the base map ..... 93

**6 Additional software: SkinEditor ..... 97**

6.1 Skin creation ..... 98
6.2 Selecting a Skin in OnCourse Navigator ..... 99

**7 Appendix ..... 101**

7.1 Annex A: Configuration of OnCourse Navigator ..... 102
7.1.1 Map information ..... 102
7.1.2 Route information ..... 103
7.1.3 Volume ..... 103
7.1.4 Representation ..... 104
7.1.5 Auto mode ..... 104
7.1.6 Speed profile ..... 104
7.1.7 Logbook ..... 105
7.1.8 Keypad ..... 105
7.1.9 Itinerary ..... 105
7.1.10 Format ..... 105
7.1.11 GPS ..... 106
7.1.12 Home address ..... 106
7.2 Annex B: Problem solutions ..... 107
7.2.1 Installation ..... 107
7.2.2 Performance ..... 107
7.2.3 GPS receiver ..... 108

**8 Glossary ..... 109**

**9 Index ..... 111**

# 1 Introduction

**Topics covered in this chapter:**


| | | |
|---|---|---|
| 1.1 | Important safety information<br>Safety information on navigation<br>Safety information on the GPS receiver<br>Safety information on the installation in the vehicle | page 4 |
| 1.2 | Search facilities and conventions | page 6 |
| 1.3 | Liability<br>Support | page 6 |
| 1.4 | Trademarks | page 7 |

## 1.1 Important safety information

*Note*

In your own interest, read the following notices and safety information carefully before starting up your navigation system.

### 1.1.1 Safety information on navigation

The use of ***OnCourse Navigator*** may only be effected at your own risk.

**Attention:** To protect yourself and others from accidents please do not operate the navigation system while driving!

**Attention:** You must not look at the display except when it is absolutely safe to do so!

**Attention:** The road layout and the traffic signs are absolutely prior to the instructions of the navigation system.

**Attention:** You must not follow the instructions of ***OnCourse Navigator*** except when the circumstances and the road traffic regulations allow doing so. ***OnCourse Navigator*** will guide you to your destination even when you have left your planned itinerary..

**Notice:** We recommend to effect route planning before beginning the journey. If you are on the road and you want to establish a new itinerary, please drive to the next parking site!

**Notice:** If you have not understood the instructions or if you are not sure about what to do next you may quickly refer to the map or arrow view of your navigation system.

### 1.1.2 Safety information on the GPS receiver

**Attention:** As it is not waterproof, do not expose your GPS receiver to water!

**Attention:** Do not install the cable next to security relevant equipment and supply lines.

**Attention:** Please check the security relevant equipment when you have installed the navigation system.

**Attention:** The GPS receiver should be disconnected from the power supply while your car is parking. As it spends energy permanently you might risk discharging the car battery.

**Attention:** The installation of the GPS receiver must not interfere with the sure operation of your car.

**Notice:** Do not varnish the GPS receiver. Doing so might impede the reception of GPS signals.

**Notice:** Do not use any harsh solvents for cleaning the GPS receiver. A damp cloth is sufficient! You might damage the case of the GPS receiver.

**Notice:** Do not unplug by pulling the cable. This might damage the cable!

**Notice:** Do not fold the cable. Check that the cable may not be damaged by any sharp object.

### 1.1.3 Safety information on the installation in the vehicle

**Attention:** Do not fix the holder within the deployment area of airbags.

**Attention:** When you install the holder, please check that it may not constitute any safety risk, even in case of an accident.

## 1.2 Search facilities and conventions

*Find information quickly*

This manual offers the following search facilities:

- ⇔ In the footnote at the bottom of the page, you may check which chapter and which section you are actually reading.
- ⇔ A glossary at the end of the manual contains explanations on the technical terms used in this manual.
- ⇔ An index at the end of the manual allows precise search for the information contained in this manual.

*Conventions*

The conventions on the fonts and symbols used in this manual are explained in the two following tables:

| Font | Use |
|---|---|
| **bold** | Buttons, icons, names of entry fields, and elements of the software's user interface. Also used for highlighting warnings and notices. |
| ***bold italic*** | Registered names and trademarks. |
| **SMALL CAPITALS** | Window and dialogue box titles. |

| Symbol | Use |
|---|---|
| | Indicates hints and notices that may ease the use of ***OnCourse Navigator***. |
| | Indicates additional information. |
| | Warns against dangers that might cause damage to objects and persons. |

## 1.3 Liability

*Limitation of liability*

The software and the manual are subject to change without notice. Easy PocketNAV.com LLC may not be liable for the correctness of the information contained in this manual nor for damages resulting from the use of this manual.

To improve the quality of our products and our services, we appreciate all suggestions for improvement and all error notices.

### 1.3.1 Support

*You need help?*

Send an email to

support@OnCourseNavigator.com

You may also find further information on the web site of Easy PocketNAV.com LLC (www.OnCourseNavigator.com).

## 1.4 Trademarks

*Registered trademarks*

All brands and trademarks mentioned in this document are possibly registered by third party and subject to the current legislation and to the rights of their respective owners without reservation. All mentioned names of products, societies, or brands may be registered trademarks of their respective owners. Every right that is not explicitly accorded is reserved.

The absence of an explicit labeling of registered trademarks does not allow the conclusion that this brand was not subject to the rights of third party.

⇔ Outlook, Windows and ActiveSync are registered trademarks of the Microsoft Corporation.

# 2 Installation and quick-start guide

**Topics covered in this chapter:**


| | | |
|---|---|---|
| 2.1 | Operating mode of your navigation system | page 10 |
| | Hardware components at large | |
| 2.2 | Installation of the navigation system | page 12 |
| | Software installation on your PC and on your Pocket PC (Case A) | |
| | Software installation on your Pocket PC (Case B) | |
| | Transferring a map extract to your Pocket PC (Case A) | |
| | Software registration and activation | |
| | Installation in the vehicle | |
| | Starting navigation | |

## 2.1 Operating mode of your navigation system

*OnCourse Navigator*

The time of complicated and frustrating inquiries on the right way in folded maps is over. From now on ***OnCourse Navigator***, your navigation system, will guide you, based on satellite information, quickly and safely to your destination.

*Scope of services*

With ***OnCourse Navigator*** you will not only arrive quickly and safely at your destination. You may also

- ⇔ record a logbook,
- ⇔ use the addresses in ***Microsoft Outlook*** for navigation,
- ⇔ enter several route points,
- ⇔ define your own areas and corridors of the base map.

*GPS-based navigation*

Based on satellites the **G**lobal **P**ositioning **S**ystem (GPS) determines your current geographical position. The GPS has originally been developed as a weapon guidance system for the American forces.

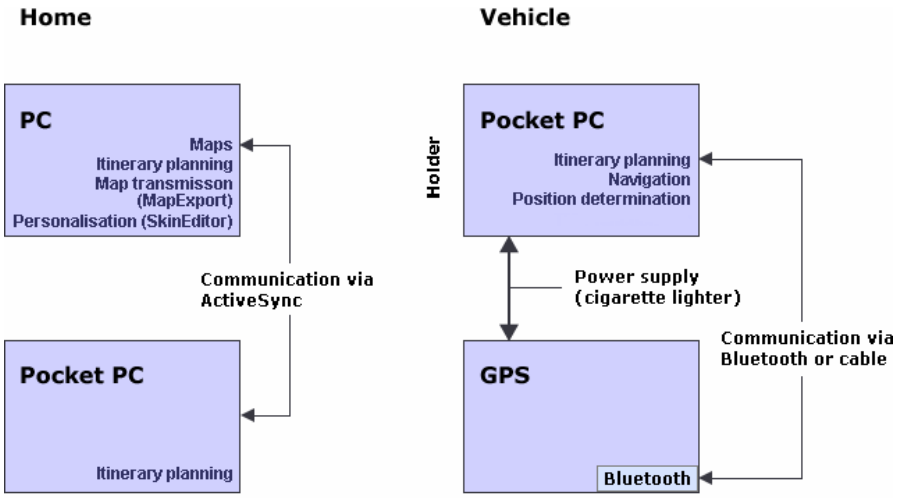
*Operating mode of the GPS*

The GPS is based on 24 satellites, which are in orbit round the earth. They are permanently emitting the time and their current position. The GPS receiver receives this information and calculates the longitude and the latitude of its own actual position.

The signals of at least three satellites are needed to determine the longitude and the latitude. With the signals of at least four satellites the elevation may be calculated, too. The determination has an accuracy of about 3 yards.

### 2.1.1 Hardware components at large

*Hardware components of your navigation system*



*Operating mode of your navigation system*

The so-called base map (e.g. of USA and Canada) and a software designed for exporting extracts of this base map are installed on your PC (if you have purchased the version with 4 CD-ROMs). Via ***ActiveSync*** you may transmit areas of the base map to your Pocket PC. Itinerary planning may be done as well on your PC as on your Pocket PC.

**Notice:** As your Pocket PC disposes of limited memory (64MB in most of the cases) you may transmit only areas of the base map. If you dispose of a 256MB storage card you may transmit e.g. a map that covers several Federal States of the United States to your Pocket PC.

On your Pocket PC, you may use the map for navigation by defining the destination. The software communicates with the GPS receiver (via connection cable or via Bluetooth) to determine your current position.

*PC*

Storage of the base map (e.g. of USA and Canada)
Exportation of areas of the base map (***MapExport***)
Skin design (***SkinEditor***)
Itinerary planning
Transfer of segments of the base map to the Pocket PC

*Pocket PC*

Itinerary planning based on the transferred areas of the base map
Street navigation (with GPS receiver)

*GPS*

Determination of the current position
Bluetooth: wireless communication (optional)

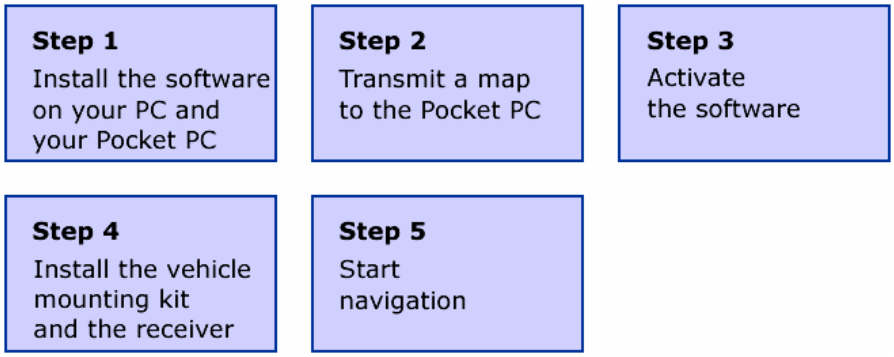
## 2.2 Installation of the navigation system

*Quick-start guide…*

Depending on the version you have purchased, you must carry out the following procedures before using ***OnCourse Navigator***:

***Case A:** 4 CD-ROMs*

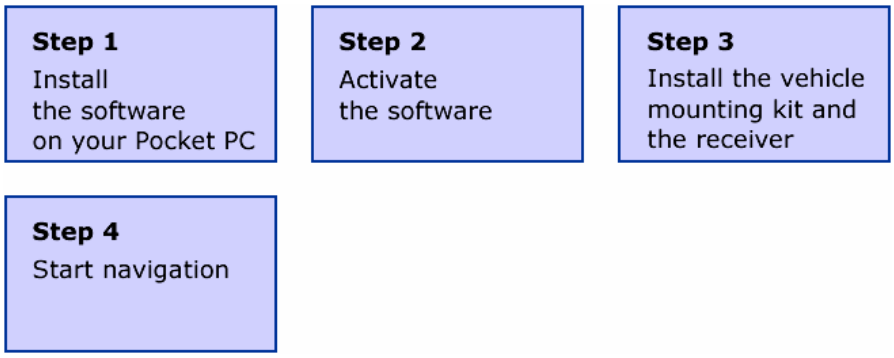
**Case A:** You have purchased 4 CD-ROMs. Proceed as follows:




You need a PC for installation. All software components necessary for navigation will be installed on your Pocket PC. ***MapExport*** (exportation and transfer of areas of the base map) and ***SkinEditor*** (personalization of your navigation software) will be installed on your PC.

***Case B:** storage card, recovery CD*

**Case B:** You have purchased a storage card (setup-file and one map) and a recovery CD. Proceed as follows:




You do not need a PC for installation. All software components necessary for navigation will be installed on your Pocket PC. ***MapExport*** (exportation and transfer of areas of the base map) and ***SkinEditor*** (personalization of your navigation software) will not be installed.

***Case C:** 4 CD-ROMs, storage card*

**Case C:** You have purchased 4 CD-ROMs and a storage card (setup-file and one map). Proceed as described in **Case A** or in **Case B**.

### 2.2.1 Software installation on your PC and on your Pocket PC (Case A)

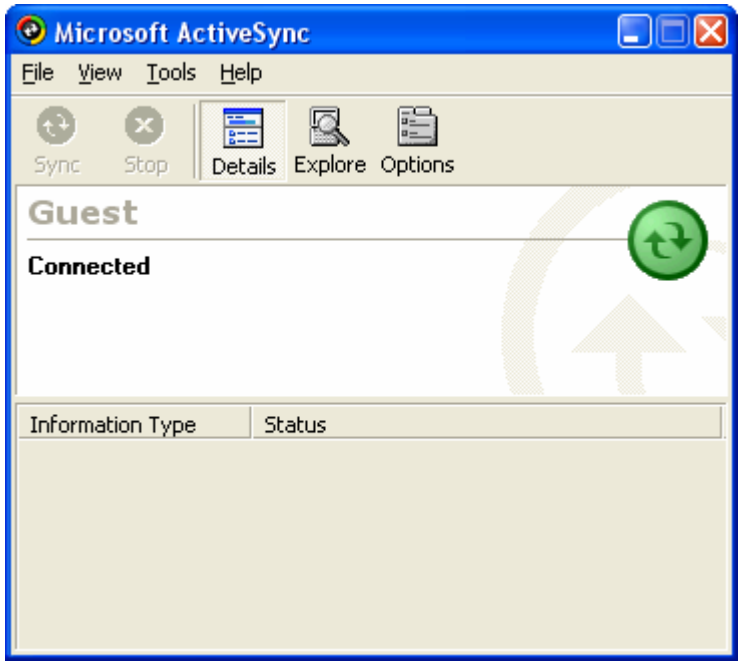
*Survey*

You must install the software on your PC and on your Pocket PC before you can use your navigation system.

At the beginning of the installation process, the base map (e.g. of USA and Canada) and the ***MapExport*** software (which is designed for defining and exporting your own areas of the base map and for transferring them to your Pocket PC) will be installed on your PC. At the end of the same process, the ***OnCourse Navigator*** navigation software will be installed on your Pocket PC.

*Installing the software...*

1. Establish an ***ActiveSync*** connection between your PC and your Pocket PC (for details, please refer to the manual of your Pocket PC).




2. Insert the **OnCourse Navigator CD-ROM 1** into your CD-ROM drive.

   The installation process starts automatically.

**Notice:** If the installation process does not start automatically, open the ***Windows Explorer***, double-click the entry of your CD-ROM drive and double-click **Setup.exe**.

3. Follow the instructions of the installation software.

   The navigation software will be installed on your Pocket PC when the installation process on your PC is finished.

## 2.2.2 Software installation on your Pocket PC (Case B)

*Survey*

The ***OnCourse Navigator*** navigation software will be installed on your Pocket PC.

*Installing the software...*

1. Insert the storage card into your Pocket PC.
2. Turn on your Pocket PC.
3. Open the **File Explorer** via **Start** > **Programs**.

4. Open the directory of your storage card.
5. Start the installation program **OnCourse Navigator 4.cab**

   The installation of ***OnCourse Navigator*** begins.

## 2.2.3 Transferring a map extract to your Pocket PC (Case A)

**Notice:** If you have purchased a storage card with a map for your Pocket PC, you do not need to transmit a map extract. In this case, proceed as described in “Software registration and activation”, page 15.

*Survey*

Before using your navigation software, you must export a map extract to your PC and transmit it to your Pocket PC.

*Exporting maps...*

**Precondition:** your Pocket PC is connected to your PC via an ***ActiveSync*** connection.

1. On your PC, start the ***MapExport*** software by clicking on **Start** > **Programs** > **OnCourse Navigator 4** > **MapExport**.

   For details on this software, please refer to “Additional software: MapExport”, page 69.

2. Define the segment of the base map you want to transmit to your Pocket PC:

| You want to... | so... |
|---|---|
| select an already exported map, | click the **Map archive** icon |
| define a rectangular segment, | click the **Area** icon |
| define a map corridor by determining the stages of an itinerary, | click the **Corridor** icon |

The software calculates the data and indicates the storage capacity required by the defined segment.

**Notice:** The size of the defined segment must not exceed the available storage capacity on your Pocket PC.

3. Click the **Via ActiveSync** button to transmit the selected map to your pocket PC.

   The map will be transferred to the Pocket PC and then be ready for navigation purposes.

## 2.2.4 Software registration and activation

*Activation code*

At the first start of ***OnCourse Navigator*** you will be prompted to enter an activation code. You cannot start the software without entering this code.

To obtain the activation code, you will need the serial number, which you find in the jewel case of the ***OnCourse Navigator*** CD and the number, which is indicated at the first start of the software.

With these two numbers you may obtain the activation code:

⇔ in the web on www.OnCourseNavigator.com.

Enter the activation code into the respective entry field and tap the **OK** button or the ENTER-key of the on-screen keyboard.

**Notice:** Keep the activation code at a safe place. You might need it later, e.g. when you reinstall the software on your Pocket PC.

## 2.2.5 Installation in the vehicle

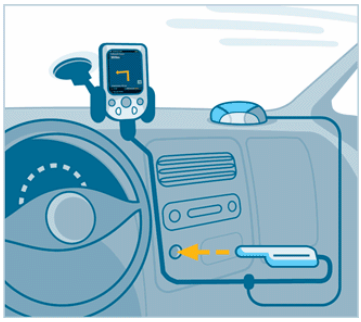
*Survey*

Mount the holder of the Pocket PC and the GPS receiver before you use the navigation system. You will also have to initialize the GPS receiver.

**Notice:** The holder and the adapter of the Pocket PC are not supplied within the delivery.

### Mounting and connecting the Pocket PC

**Attention:** The mounted holder must not impede the driver's attention on the traffic. If this is not possible, mount the holder somewhere else so that safe driving is granted.

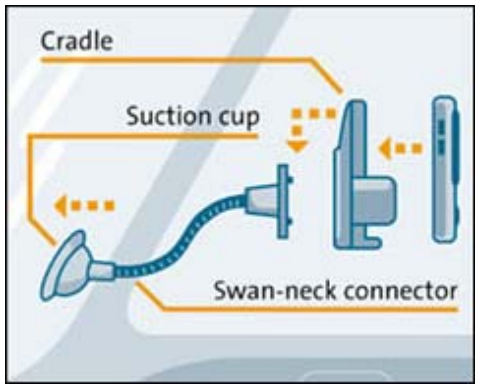


*Connecting the Pocket PC...*

1. Attach the cradle of the Pocket PC to the swan-neck mount.

**Notice:** Take notice of the inscription on the swan-neck mount. The arrow with the inscription **close** must show in snap-on direction. The connection must snap on audibly.

2. Place the suction cup on the windscreen. Press the lever firmly to the windscreen before switching it.
3. Put the Pocket PC into the cradle. Make sure that it is held safely!
4. Plug the adapter into the socket at the bottom of the Pocket PC.



## Mounting and connecting the GPS receiver

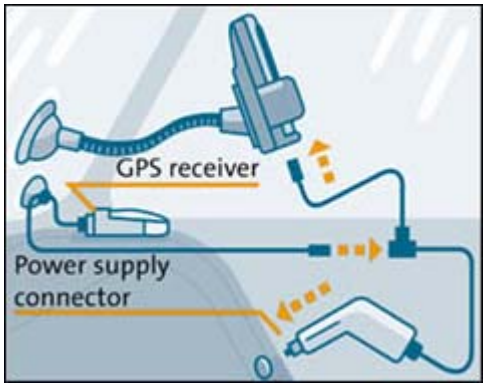
**Attention:** The mounted GPS receiver must not impede the driver's attention on traffic.

*Connecting the GPS receiver...*

1. Place the GPS receiver horizontally under the windscreen, as far forwards as possible.

**Notice:** The reception of GPS-signals may be obstructed by windscreen heating wires, by a windscreen aerial, or when the windscreen is metallized. In this case you might use an external vehicle antenna, which may be ordered from our support team.

2. Plug the connection cable of the GPS receiver to the respective socket of the adapter, which connects the Pocket PC to the power supply.
3. Plug the jack of the adaptor into the socket of the cigarette lighter.
4. Turn the GPS receiver on.




*Establishing a Bluetooth-connection*

4a If you are using a Bluetooth receiver, establish a Bluetooth connection between the GPS receiver and the Pocket PC.

**Notice:** For detailed information on how to establish a Bluetooth connection between your Pocket PC and other Bluetooth-devices, please refer to the manual of your Pocket PC.

4b At the first connection via Bluetooth, you will be prompted to enter a code. Usually this code is **0000**.
For information on the correct code, please refer also to the manual of your Pocket PC or contact the manufacturer of your device.

5. Start ***OnCourse Navigator***.
6. On the main screen, tap the **Settings** button.

   The **SETTINGS** screen opens.
7. Via the arrow buttons, select **GPS**.

8. Tap the **Type of receiver** field and indicate the type of your GPS receiver.

| You have… | then… |
|---|---|
| the standard GPS receiver, | select **standard GPS**. |
| the MIO 168 Pocket PC with built-in GPS receiver | select **MIO 168**. |
| a GPS receiver of another brand, | select **Other receiver**. |

9. Tap the **Com-Port** field and indicate the COM-port.

   **Notice:** If you have established a wire connection (Type: standard GPS), it is normally COM-Port 1.

   If you use the **MIO 168**, select COM-port 2.

   When you establish a Bluetooth-connection for the first time, you are normally prompted which COM-port is used. When you connect a HP Ipaq 3870, 3970, 2210, 5450, or 5550, it is COM-Port 8. For a HP Ipaq 1940 it is COM-Port 5 or 8. For a HP Ipaq 4150 it is COM-Port 6 or 8. Asus 620 BT and Fujitsu Siemens PocketLOOX 410 and 420 use COM-Port 6.
10. If you are using a GPS receiver of another brand (Type: Other receiver), enter the respective Baud rate into the **Baud** field.

## Initializing the GPS receiver

*Initialization of the GPS receiver*

The initialization process of the GPS receiver starts automatically. Within 15 seconds the color of the **GPS** icon in ***OnCourse Navigator*** changes from red (No GPS signal) to orange (GPS signals insufficient). The number on the **GPS** icon indicates the number of satellites from which signals are being received. When the signals of more than 3 satellites are being received, the **GPS** icon becomes green (GPS ready). This process may take about 20 minutes. When the **GPS** icon becomes green earlier, it would be good to leave the GPS receiver turned on for about 15 more minutes in order to grant its correct operation.

The initialization process is finished when the reception of more than 3 satellites is indicated after about 20 seconds.

**Notice:** This initialization process must be carried out only once. The other times, the GPS receiver will be ready within about one minute.

**Notice:** When the GPS receiver is connected to the power supply for the first time, leave it connected for about 2 hours in order to charge its battery.

**Notice:** A new initialization may become necessary when the GPS receiver has not been in use. In this case, the initialization process would take about 10 minutes.

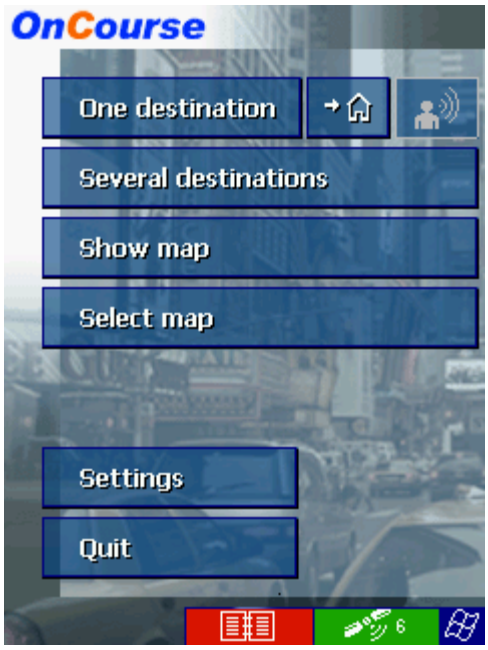
**Attention:** Disconnect the receiver from the power supply when you are leaving the car parked for a longer period. Failure to do so might result in a flat battery as the receiver consumes electricity permanently.

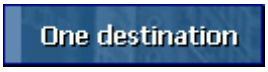
For details on the operation of your GPS receiver, please refer to “Icons”, page 27.

## 2.2.6 Starting navigation

*Use your navigation system…*

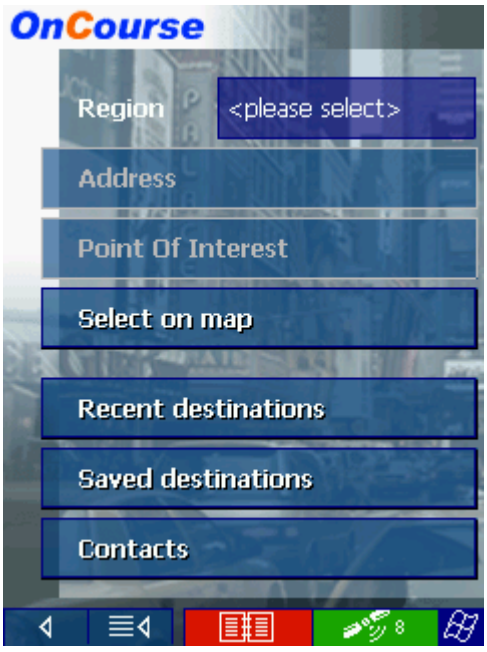
1. Turn on your Pocket PC.
2. Start ***OnCourse Navigator*** by tapping > **Programs** > **OnCourse Navigator 4**.



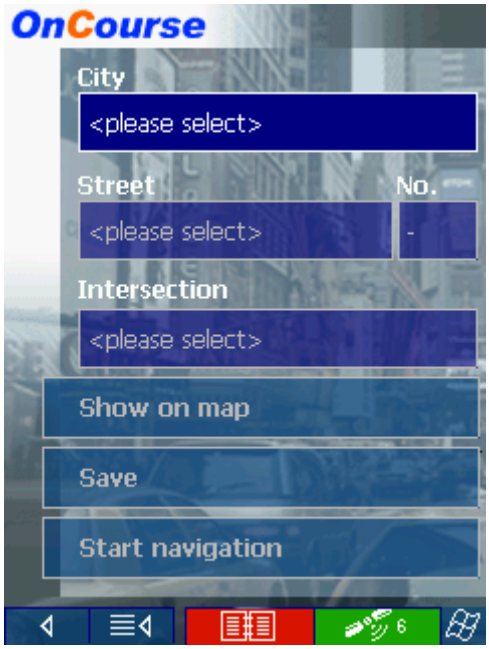

3. Tap the **One destination** button to enter your destination.

   The **DESTINATION** screen opens:




4. Tap the **Region** entry field and select the destination state or territory/province.
5. Tap the **Address** button.

The **ADDRESS** screen opens:




6. Enter the name of the destination town into the **City** field.
7. Enter the name of the destination street into the **Street** field. Enter the house number if possible.

**Notice:** You do not need to enter a street suffix, or a street type to get a search result. For example, if you are looking for a street called "S Main Avenue", simply type in "main".

8. Tap the **Start navigation** button.

For details on the functions of your navigation system, please refer to “Operating the navigation software”, page 23, and to “Navigation and Itinerary planning”, page 55.

# 3 Operating the navigation software

**Topics covered in this chapter:**


| | | |
|---|---|---|
| 3.1 | Starting OnCourse Navigator | page 24 |
| | Basic settings | |
| 3.2 | User interface and basic functionality | page 27 |
| | Icons | |
| 3.3 | Indicating destinations | page 30 |
| | Entering a destination manually | |
| | Selecting a | |
| | Selecting destinations from the Outlook contacts list | |
| | Indicating destinations on the map | |
| | Saved destinations | |
| | Recent destinations | |
| | Save and use your home address | |
| | Voice command | |
| 3.4 | Working with the map | page 45 |
| | Operating the map | |
| | Representation of the map | |
| | Displaying additional information on the map | |

## 3.1 Starting OnCourse Navigator

*Precondition*

You have carried out installation and activation of ***OnCourse Navigator*** as described in “Installation of the navigation system”, page 12.

*Starting the navigation software…*

1. Turn on your Pocket PC.
2. Start ***OnCourse Navigator*** by tapping > **Programs** > **OnCourse Navigator 4**.

   The Main screen opens:

*Main screen*

All functions of the program are accessible via the Main screen.

Tap this button to indicate a destination for navigation (one stage).

For details, please refer to “Indicating destinations”, page 30.

Tap this button to navigate to your home address.

For details, please refer to “Save and use your home address”, page 43.

Tap this icon to indicate a stored destination by voice.

For details, please refer to “Voice command”, page 44.

Tap this button for itinerary planning purposes.

For details, please refer to “Navigating to several destinations (Itinerary planning)”, page 59.

Tap this button to display the map currently in use.

Tap this button to select another map which is stored on your Pocket PC.

**Notice:** You cannot profit from this function unless you have installed ***MapExport*** on your PC.

For details, please refer to “Working with the map”, page 45.

Tap this button to modify the settings of ***OnCourse Navigator***.

For details, please refer to “Annex A: Configuration of OnCourse Navigator”, page 102.

Tap this button to quit ***OnCourse Navigator***.

### 3.1.1 Basic settings

*Basic settings*

Before working with ***OnCourse Navigator***, we recommend

- ⇔ configuring the keys of your Pocket PC. You may then execute almost all functions without tapping.
- ⇔ entering the home address. You may then navigate home from anywhere.

*Key configuration*

In ***OnCourse Navigator***, you may configure the hardware keys of your Pocket PC to execute the “up”, “down”, “left”, “right”, “enter” and “return” actions. This enables convenient and easy operation.

When you quit the navigation software, the keys will have their standard functionality.

1. On the main screen tap **Settings**.

   The **SETTINGS** screen opens.
2. Via the arrow buttons, select the **KEYPAD** screen.
3. Tap **Key assignment**.
4. Select the keys for the respective actions.
5. Tap the **Save** button.

*Saving your home address*

In ***OnCourse Navigator***, you may save your home address to quickly start navigation homewards from anywhere.

1. On the main screen, tap **Settings**.

   The **SETTINGS** screen opens.

2. Via the arrow buttons, select the **HOME ADDRESS** screen.

3. Tap **Enter your home address**.

   The **DESTINATION** screen opens.

4. Tap the **Address** button and enter your home address as described in “Entering a destination manually”, page 31.

5. Tap the **Set as home address** button.

   The address is indicated on the **HOME ADDRESS** screen.

6. Tap **Save**.

## 3.2 User interface and basic functionality

*Operation*

In order to offer a maximum of flexibility and convenience for the operation of ***OnCourse Navigator*** there is three ways to make entries:

- ⇔ tapping with the stylus,
- ⇔ tapping with your finger, or
- ⇔ via the hardware keys of your Pocket PC.

Moreover, you may indicate a saved destination by voice to start navigation to it.

### 3.2.1 Icons

*Icons*

The following buttons appear on the bottom line of every ***OnCourse Navigator*** screen:

**Return**

Tap this icon to return to the previous screen. This icon is only available when you have opened another screen before.

**Main screen**

Tap this icon to open the main screen. This icon is not available on the main screen.

**Logbook**

Tap this icon to access the logbook functions.

For details on the logbook functions, please refer to “Keeping the logbook”, page 66.

**GPS**

The color of this icon and the number displayed on it have the following significance:

| Color / Number | Significance |
|---|---|
| red | A GPS receiver is not connected or the power supply is interrupted. |
| orange + number of received satellites | A GPS receiver is connected, but the received signals are not convenient for navigation purposes (e.g. because you are in a closed building). |
| green + number of received satellites | The signals are convenient. Navigation may begin. |

Tap the **GPS** icon to display the current GPS status:

| Entry | Significance |
|---|---|
| GMT | **G**reenwich **M**ean **T**ime<br>Time of London ignoring daylight saving time. |
| Longitude / Latitude | Current position:<br>Indication of east longitude and north latitude. |
| Satellites | Number of received satellites. At least three satellites must be received for navigation purposes. |
| HDOP | **H**orizontal **D**ilution **o**f **P**recision:<br>Indicates the quality of position determination. Theoretically any value from 0 to 50 may occur. The smaller the value, the more accurate is the position determination (value 0 = no deviation from the real position). Values up to 8 are convenient for navigation purposes. |

| Entry | Significance |
|---|---|
| Speed | Indicates your current speed. |
| Position | Indicates the address of your current position. |
| Save current position | Tap this button to add the current address to the saved destinations list. |
| Close window | Tap this button to quit the **GPS** screen. |

**Start**

Tap this icon to start another program on your Pocket PC without quitting ***OnCourse Navigator***. This may be useful if, e.g., you want to modify a contact's address data without interrupting the navigation. Tap this icon again to return to ***OnCourse Navigator***.

## 3.3 Indicating destinations

*Basic principle of navigation*

The indication of destinations is the basis of navigation respectively of itinerary planning. In this chapter, you will learn about the possibilities to indicate and manage destinations in ***OnCourse Navigator***.

For details on destination management, please refer to “Navigation and Itinerary planning”, page 55.

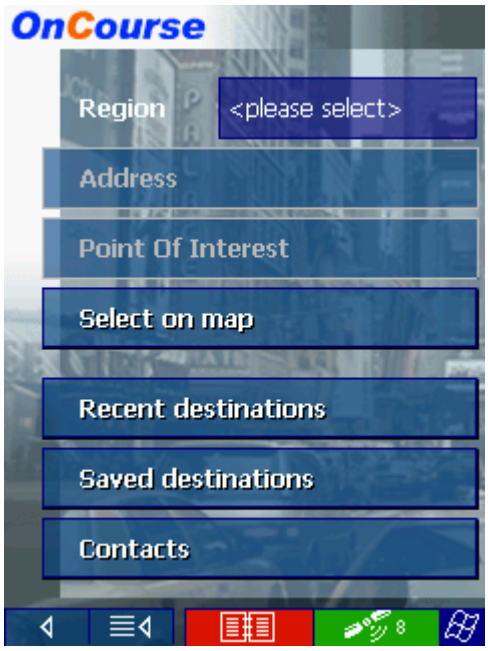
*Indicating a destination*

In ***OnCourse Navigator*** there are several possibilities to enter or to select destinations:

- ⇔ Manual address entry, see page 31.
- ⇔ Via the Points of Interest function, see page 33.
- ⇔ Via the Outlook contacts folder, see page 37.
- ⇔ By indication on the map, see page 39.
- ⇔ By selection from the Saved destinations list, see page 41.
- ⇔ By selection from the Recent destinations list, see page 42.
- ⇔ Via the Home icon, see page 43.
- ⇔ By Voice command, see page 44.

*Destination screen*

If you want to plan an itinerary or to navigate to a certain destination, you have to indicate destinations. The **DESTINATION** screen is the starting point for the indication or selection of a destination:



### 3.3.1 Entering a destination manually

*Database of places*

The data of all places covered by the currently loaded map is stored in the database of places. You need not enter the complete names of towns and streets as ***OnCourse Navigator*** lists automatically all names that match with your entry. If you enter for example "ri" into the **City** entry field and tap the **Ok** button you will obtain a list of all towns beginning with "ri" or having "ri" into their names. You may then select the correct entry or enter more letters to shorten the results list.

*Selecting the screen keyboard*

You may carry out entries using the standard screen keyboard or the mobile phone screen keyboard.

The mobile phone screen keyboard is designed to make entries by tapping with the finger. You need not enter special characters on the mobile phone screen keyboard. ***OnCourse Navigator*** will recognize them automatically. Example: if you are looking for a French town called “Héroïnès”, simply tap “Heroines” on the mobile phone screen keyboard.

Select a screen keyboard by tapping the respective icon at the bottom of the screen. The icon of the active screen keyboard is highlighted in blue.

*Indicating a destination…*

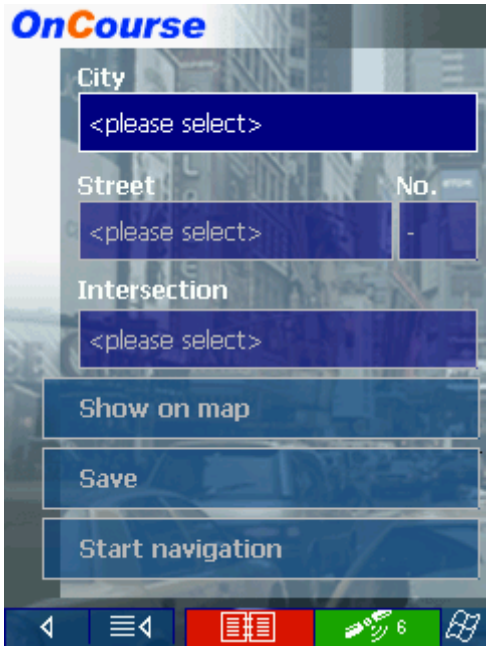
1. On the main screen tap **One destination**.

   The **DESTINATION** screen opens.

2. Tap the **Region** entry field and select the destination state or province/territory.

3. Tap the **Address** entry field.

   The **ADDRESS** screen opens:




4. Enter the name of the destination town into the **City** entry field. For cities in the United States you may also enter the postal code.

5. Enter the destination street into the **Street** entry field.

**Notice:** You do not need to enter a street suffix, or a street type to get a search result. For example, if you are looking for a street called "S Main Avenue", simply type in "main".

6. Enter a house number into the **No.** field at the right hand side if possible.

**Notice:** If the house numbers of the respective street are stored in the database of places, you may tap the field besides the **Street** field.
If no house numbers are stored, the respective field is deactivated. The software navigates to the respective street.

7. Tap the **Intersection** entry field and select a crossroad if you want to define an intersection as destination point (e.g. because the house number is not available).

8. Tap the **Save** button if you want to navigate more often to the entered destination. You may then quickly select it from the **Saved destinations** list.

## 3.3.2 Selecting a Point of Interest

*Points of Interest*

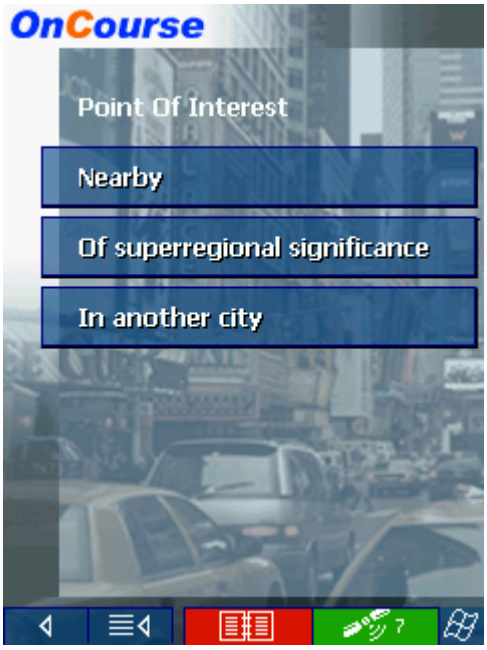
Points of Interest are stored in the database of places and may be displayed on the map. Ports, airports, restaurants, hotels, petrol stations, public buildings, and others belong to the Points of Interest.
Indicate a Points of Interest by selecting one

- ⇔ on the map, see “Indicating destinations on the map”, page 39,
- ⇔ nearby,
- ⇔ of superregional interest, or
- ⇔ in another town.

*Selecting a Point of Interest...*

1. On the **DESTINATION** screen, tap the **Point of Interest** button.

   The **POINT OF INTEREST** screen opens:



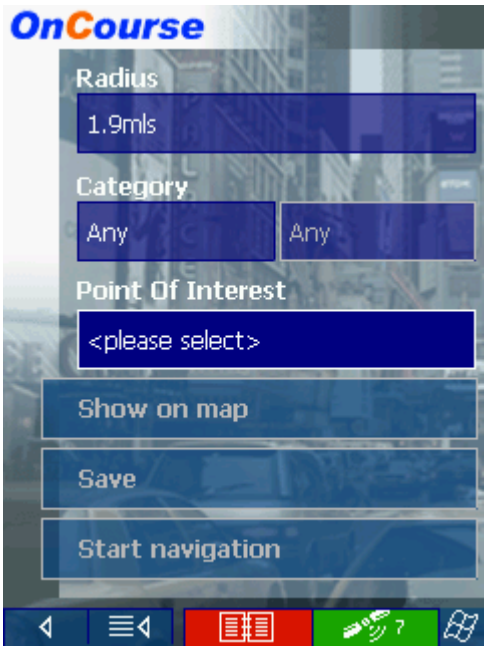
## Points of Interest nearby

**Notice:** You may only display Points of Interest nearby when the GPS receiver is connected and when your current position can be determined.

*Selecting a Point of Interest nearby...*

2. On the **POINT OF INTEREST** screen, tap the **Nearby** button.

   The **POINT OF INTEREST NEARBY** screen opens:

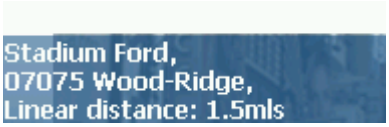



3. Enter the radius around your current position within which you want to search for Points of Interest into the **Radius** entry field.
4. Select the main category of Points of Interest to search for from the left one of the two **Category** list fields, e.g. “Garages”. Only Points of Interest situated within the indicated radius will be displayed.
5. Select the sub-category of Points of Interest to search for into the right one of the two **Category** list fields, e.g. "BMW", "Ford", "DaimlerChrysler".

**Notice:** If you leave the **Sub-category** field empty, all Points of Interest matching with the selected main category will be listed in the **Point of Interest** list field.

6. Select the correct destination from the **Point of Interest** list field.

   All Points of Interest matching your entries are listed, including their linear distance from your current position:



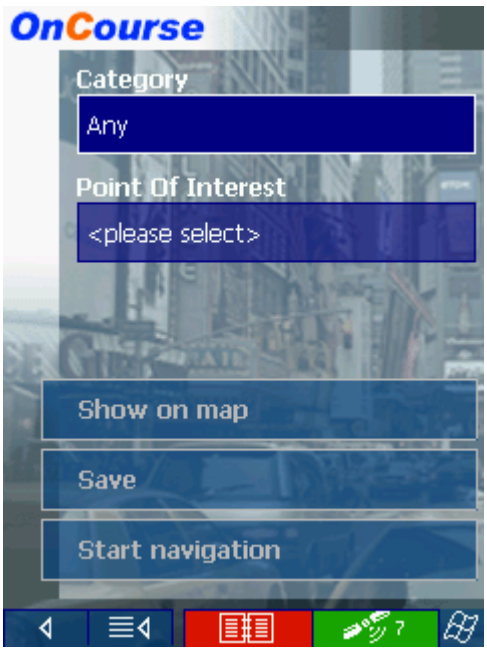

7. Tap the **Save** button if you want to navigate more often to the selected destination. You may then quickly select it from the **Saved destinations** list.

## Points of Interest of superregional interest

*Selecting a Point of Interest of superregional interest...*

8. On the **POINT OF INTEREST** screen, tap the **Of superregional significance** button.

   The **POINT OF INTEREST OF SUPERREGIONAL SIGNIFICANCE** screen opens:



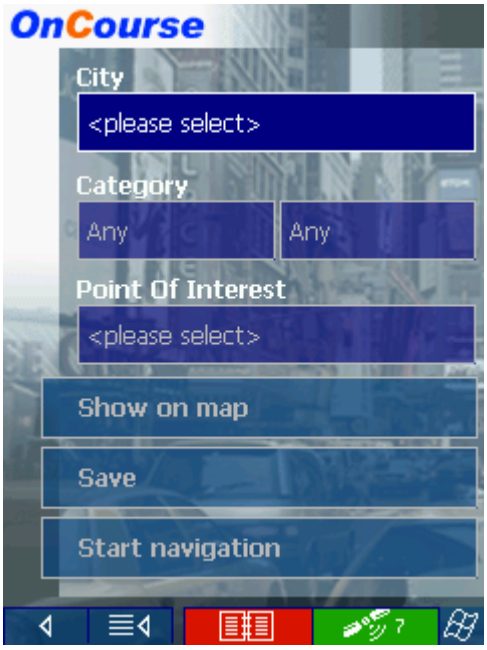

9. Select the main category of Points of Interest to search for from the **Category** list field, e.g. "Airports".
10. Select the correct destination from the **Point of Interest** list field.
11. Tap the **Save** button if you want to navigate more often to the selected destination. You may then quickly select it from the **Saved destinations** list.

## Point of Interest in another town

*Selecting a Point of Interest in another town...*

2. On the **POINT OF INTEREST** screen, tap the **In another city** button.

   The **POINT OF INTEREST IN ANOTHER CITY** screen opens:




3. Enter the name of the city in which you want to search for Points of Interest into the **City** field.
4. Select the main category of Points of Interest to search for from the left one of the two **Category** list fields, e.g. “Nightlife”. Only Points of Interest matching your City and Category entries are listed.
5. Select the sub-category of Points of Interest to search for into the right one of the two **Category** list fields, e.g. “Bar”, “Cinema”, …
6. Select the correct destination from the **Point of Interest** list field.

**Notice:** If you leave the **Sub-category** field empty, all Points of Interest matching with the selected main category will be listed in the **Point of Interest** list field.
If you leave both the **Category** and the **Sub-category** fields empty, all Points of Interest situated in the selected city will be listed in the **Point of Interest** list field.

7. Tap the **Save** button if you want to navigate more often to the selected destination. You may then quickly select it from the **Saved destinations** list.

## 3.3.3 Selecting destinations from the Outlook contacts list

*Using Outlook contacts as destination…*

Any address from the Outlook contacts list on your Pocket PC may be used as destination for navigation or itinerary planning purposes.

In order to identify an address clearly and without ambiguity, town, postcode, street, and house number should be indicated.

**Notice:** Only contacts the address of which is covered by the currently loaded map may be used for navigation or itinerary planning purposes.

*Incomplete address*

If an address cannot be identified without ambiguity e.g. because there are two towns with the same name on the map, ***OnCourse Navigator*** lists them all, indicating their postcodes and districts. Select the respective town and tap **OK**.

If the town has been found but the street of the contact is not indicated, you will be guided to the center of this town.

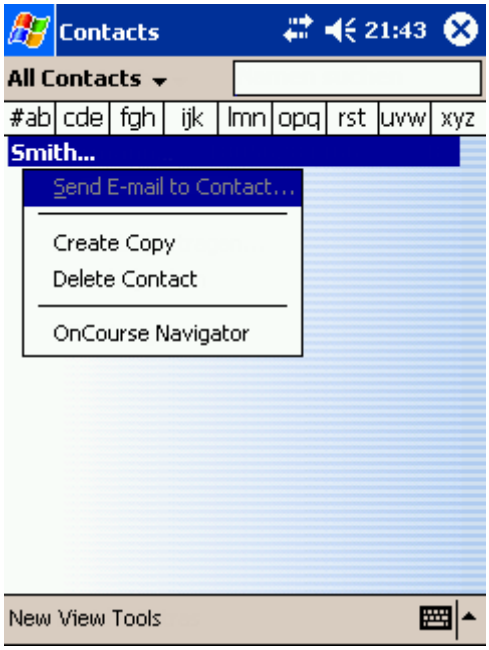
To avoid problems, the addresses from your Outlook contacts list should be complete.

*Selecting a contact's address…*

1. On the **DESTINATION** screen, tap the **Contacts** button.

   Your Pocket PC's contacts list opens.

2. Tap the respective contact's entry and hold until you get the context menu:




3. Tap **OnCourse Navigator**.

3a The following screen opens when there was more than one address to be found for the respective contact:

3b Tap the **OK** button, which belongs to the address you want to use as destination.

***OnCourse Navigator*** adopts the address.

4. Tap the **Save** button if you want to navigate more often to this contact. You may then quickly select the address from the **Saved destinations** list.

## 3.3.4 Indicating destinations on the map

You may indicate a destination directly on the map. In addition to towns and streets, you may also select Point of Interest quickly..

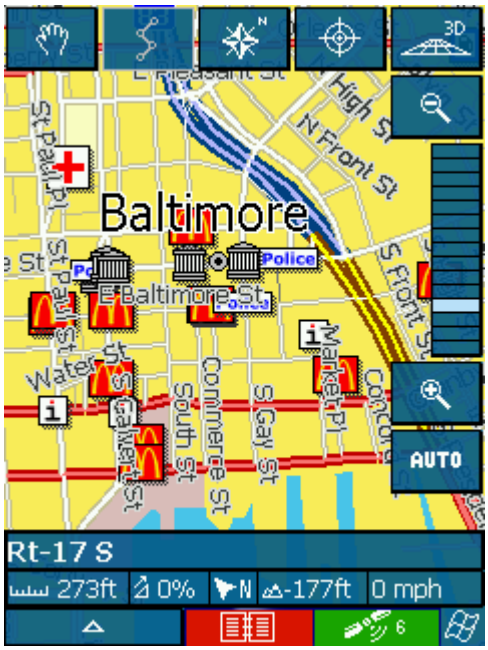
*Indicating a destination on the map...*

1. On the main screen tap **One destination**.

   The **DESTINATION** screen opens.

2. Tap the **Select on map** button.

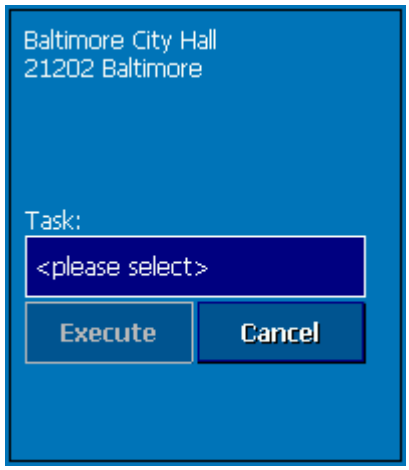
   The map screen opens:




3. Tap on the place you want to determine as destination and hold.

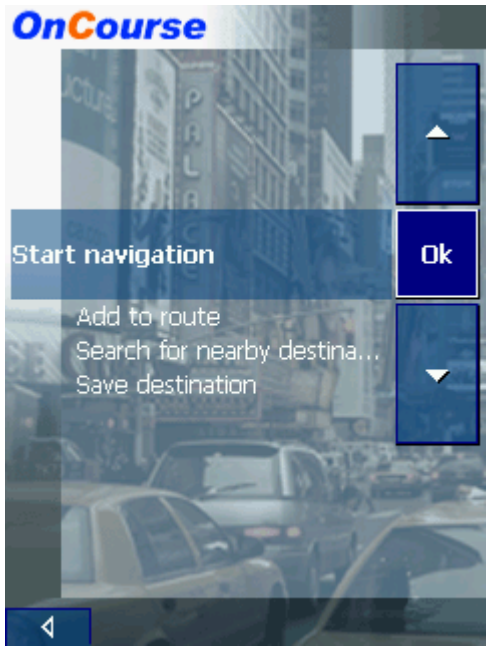
   A circle of red points appears round the selected place:

Database information on the respective place will be loaded and displayed:




4. Tap the **Task** field.

   The **TASK** screen opens where you may indicate how to proceed:




5. Select **Start navigation** from the list to navigate to the respective place.
   Tap the **Save** button if you want to navigate more often to the entered destination. You may then quickly select it from the **Saved destinations** list.

   The **TASK** screen closes and the task is indicated in the **Task** field of the precedent screen.

6. Tap the **Execute** button.

## 3.3.5 Saved destinations

*Saved destinations*

All destinations you have saved by tapping the **Save** button are listed on the **SAVED DESTINATIONS** screen. On this screen you may:

- ⇔ select destinations for navigation purposes,
- ⇔ rename destinations, and
- ⇔ delete destinations from the list.

*Take over*

1. On the main screen tap **One destination**.

   The **DESTINATION** screen opens.
2. Tap the **Saved destinations** button.
3. Tap the entry of the respective destination.

**Notice:** The list may be scrolled via the “up” and “down” icons. You may as well enter the first letter of the respective destination. The list will then automatically scroll to the first destination matching your entry.

4. Tap **OK**.

   The destination will be taken over. The address is entered into the respective fields.

*Renaming a destination*

1. Tap the entry of the destination to be renamed.
2. Tap the **Rename** icon.

   The **NAME OF DESTINATION** dialog box opens.
3. Enter the new name.
4. Tap **OK**.

   The destination is now renamed.

*Deleting a destination*

1. Tap the entry of the destination to be deleted.
2. Tap the **Delete** icon.

   The destination is now deleted.

## 3.3.6 Recent destinations

*Recent destinations*

All destinations you have navigated to recently are listed on the **RECENT DESTINATIONS** screen. On this screen you may:

- ⇔ Select destinations for navigation purposes,
- ⇔ Add destinations to the **SAVED DESTINATIONS** list, and
- ⇔ Delete destinations from the list.

*Taking over*

1. On the main screen tap **One destination**.

   The **DESTINATION** screen opens.
2. Tap the **Recent destinations** button.
3. Tap the entry of the desired destination.

**Notice:** The list may be scrolled via the "up" and "down" icons. You may as well enter the first letter of the town of the desired destination. The list will then automatically scroll to the first destination matching your entry.

4. Tap **OK**.

   The destination will be taken over. The address is entered into the respective fields.

*Saving a destination*

1. Tap the entry of the destination you want to save.
2. Tap the **Save** icon.

   The **NAME OF DESTINATION** dialog box opens.
3. Enter a name for the destination.
4. Tap **OK**.

   The destination is now saved and will appear on the **SAVED DESTINATIONS** list.

*Deleting a destination*

1. Tap the entry of the destination to be deleted.
2. Tap the **Delete** icon.

   The destination is now deleted.

## 3.3.7 Save and use your home address

*Survey*

You may store your home address in ***OnCourse Navigator*** in order to quickly start navigation home at any place.

*Saving your home address...*

1. On the main screen, tap the **Settings** button.

   The **SETTINGS** screen opens.
2. Via the "Left" and "Right" icons, select **Home address**.
3. Tap the **Enter your home address** button.

   The **DESTINATION** screen opens.
4. Tap the **Address** button and enter your address as described in “Entering a destination manually”, page 31.
5. Tap the **Set as home address** button.

   The address is taken over to the **HOME ADDRESS** screen.

6. Tap the **Save** button.

*Using your home address for navigation...*

1. On the main screen, tap .

   The route is now being calculated and navigation starts.

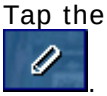
**Notice:** When calculating the route to your home address always the **Fast Route** is used as route option.

## 3.3.8 Voice command

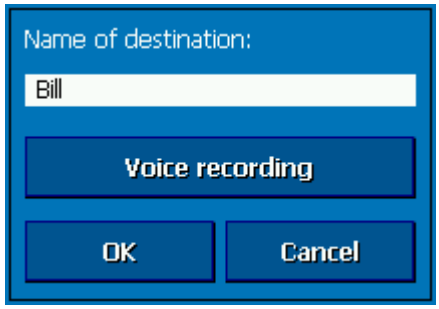
*Survey*

You may store a voice command with any saved destination. You may then start navigation to this destination by speech.

*Storing a voice command...*

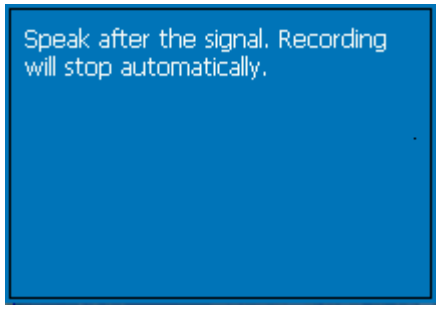
1. Open the **SAVED DESTINATIONS** screen and select the destination for which you want to store a voice command.
2. Tap the **Rename** icon  .

   The **NAME OF DESTINATION** dialog box opens.




3. Tap **Voice recording**.

   The following message appears:




4. Pronounce the name of the destination (into the Pocket PC).
5. Tap **OK** when you have heard the signal.

   The voice command for this destination is now stored.

*Navigating via Voice Command...*

1. Open the main screen.
2. Tap the **Voice recording** icon .
3. Pronounce the name of the destination (into the Pocket PC).

   The route is now being calculated and navigation starts. The route options you have chosen for the last navigation are applied.

## 3.4 Working with the map

*Survey*

There are various pieces of information available on the **MAP** screen. Learn in this chapter about the possibilities for working with the map, which depend on whether you are in navigation mode, or not.

If you have not purchased a map on a memory card, you have to transmit one or more maps from your PC to your Pocket PC using the ***MapExport*** software before you can display a map or start navigation.

For details on map transfer, please refer to “Additional software: MapExport”, page 69.

*Displaying the map*

On the main screen, tap the **Show map** button to open the **MAP** screen.

*Selecting a map*

To load another map (which must be available on your Pocket PC) proceed as follows:

1. On the main screen, tap the **Select map** button.

   The **Available maps** screen opens:

2. Tap the entry of the map you want to work with.
3. Tap **OK**.

   The selected map is now loaded. The main screen opens.

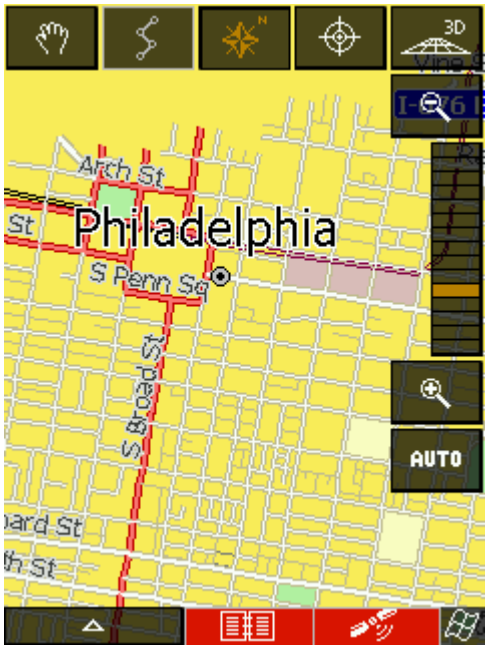
### 3.4.1 Operating the map

*Displaying the map*

You may display the map

- ⇔ while planning an itinerary,
- ⇔ in order to show destinations on the map, or
- ⇔ in order to select destinations on the map.

You may display the map via the **Show map** button on the main screen or via the **Show on map** and **Select on map** buttons, which are available when you indicate a destination. The map is being displayed automatically when you are navigating.




*Tapping the map*

The icons appear when you tap the map.

If you tap a place on the map and hold information on this place will be displayed and you may, e.g., take over the data for navigation purposes. For details, please refer to “Indicating destinations on the map”, page 39.

## Icons

The following icons are displayed on the map:

*Zoom / Scroll*

Tap the **Scroll** icon to switch between Zoom and Scroll mode.

Zoom

In Zoom mode (the icon appears white) you may scale the map up or down. Zoom in by drawing a rectangle on the map, beginning with the upper left corner. Zoom out by beginning with the lower right corner.

Scrolling

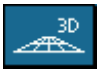
In Scroll mode (the icon appears red) you may scroll the map. Tap on the screen and drag to the desired direction.

Itinerary planning

This icon is active when a calculated itinerary is loaded. Tap the **Itinerary** icon to display the whole itinerary. Tapping this icon again will display the precedent representation of the map.

North orientation

Tap the **Orientation** icon to north orientate the map. (the icon appears red). Tapping this icon again will orientate the map in driving direction (the icon appears white).




3D view (GPS reception necessary)

Tap the **3D** icon to display the map in 3D mode (bee flight view). The icon becomes the 2D icon. Tap the **2D** icon to return to the 2D mode (standard). The icon becomes the 3D icon.

Center (GPS reception necessary)

Tap the **Center** icon to center your current position on the map.

Auto mode (GPS reception necessary)

Tap the **Auto** icon to display the standard representation of the map after you have modified the view. The settings of 3D view, north orientation and auto zoom mode will be applied. Your current position will be centered. The icons will not be displayed.

For details, please refer to “Annex A: Configuration of OnCourse Navigator”, section “Auto mode”, page 104.

Zoom in

Tap **Zoom in** to scale the map down.

*Zoom bar*

Zoom bar

Drag the control to the left or to the right in order to modify the scale of the map.

Zoom out

Tap **Zoom out** to scale the map up.

Additional functions

Tap the **Additional functions** icon to display the **ADDITIONAL FUNCTIONS** screen. The availability of some functions depends on whether you are being in navigation mode or not.

The **ADDITIONAL FUNCTIONS** screen opens:

Tap the **Day** icon to adapt the luminosity of the screen to daylight conditions.

Tap the **Night** icon to adapt the luminosity of the screen to night conditions.

Tap these icons to start / stop guidance by speech.

### Show route list

This feature is only available in navigation mode or when a calculated itinerary is loaded. Tap **Show route list** to display a list of all important waypoints of the route. For details, please refer to “Displaying the route list”, page 63.

### Change preferences

Tap **Change preferences** to display the **SETTINGS** screen. For details, please refer to “Annex A: Configuration of OnCourse Navigator”, page 102.

### Quit navigation

This function is only available in navigation mode. Tap **Quit navigation** to exit navigation mode.

### Block road, Unblock, New block

These functions are only available in navigation mode.

For details, please refer to “Blocking a route section”, page 65.

### Set interim destination

This function is only available in navigation mode. Tap **Set interim destination** to add a new route point to your itinerary. The route will be recalculated and the newly added route point will be the first destination to navigate to. Navigation to the other route points will be executed later.

For details, please refer to “Adding a stage point during navigation”, page 64.

### Change route options

This function is only available in navigation mode. Tap **Change route options** to modify them.

For details, please refer to “Navigating to a destination”, page 57.

## 3.4.2 Representation of the map in navigation mode

In navigation mode, there is some assistance for navigation, some information on the itinerary and one more command button being displayed:

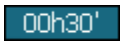
*Assistance for navigation*

The following assistance for navigation is being displayed at the left and at the bottom of the map:

| Field | Information |
|---|---|
| ① | If there is two maneuvers to be executed quickly one after the other, the small upper arrow field indicates the next maneuver but one to be executed. |
| ② | The red arrow indicates your current position on the map. Since the displayed sector of the map changes continually your current position is centered on the map whenever possible (Moving Map). |
| ③ | The bigger arrow field indicates the next maneuver to be executed. |
| ④ | The distance field indicates the distance to the next maneuver. When you approach, the representations changes into a distance bar:<br> <br>The more light blue bars are displayed the nearer you are to the place where the next maneuver must be executed. |
| ⑤ | The upper street field indicates the name of the next street to turn in. |
| ⑥ | The lower street field indicates the name of the street you are currently in. |

*Information on the itinerary*

At the right of the map, the following information on the itinerary is being displayed:

| Field | Information |
|---|---|
| | This symbol means "stage". All information displayed below refers to the next stage point. |
| | ETA (Estimated time of arrival). |
|  | Remaining time to arrival (estimated). |
| | Remaining distance to arrival (estimated). |

Tap this icon to repeat the last spoken instruction. All available information will be displayed.

The additional information will disappear after some seconds.

## 3.4.3 Displaying additional information on the map

In ***OnCourse Navigator*** you may determine which information is to be displayed on the map. Modifying any configuration begins on the **SETTINGS** screen.

*Configuring the display of additional information…*

1. On the main screen, tap **Settings** or tap the icon on the map and select **Change preferences**.

   The **SETTINGS** screen opens.

2. Select **Map information** using the arrow buttons:

*Info bar*

3. The **Info bar** at the bottom of the map displays the scale of the map, the current gradient, the compass, the current height above sea level, and the current speed.
   Tap the respective command button to display (On) or not (Off) the **Info bar**.

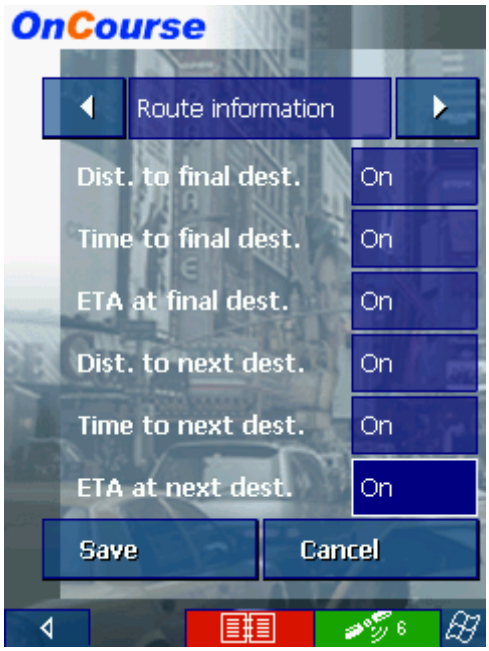
*Points of Interest*

4. Tap the respective command button to display (On) or not (Off) **Points of Interest** on the map.

*Street names*

5. Tap the respective command button to display (On) or not (Off) **Street names** on the map.

6. Via the arrow buttons select **Route information**:




7. Tap the command buttons to display (On) or not (Off) the respective information on the map.

   The desired information on the entire itinerary (upper section) and on the current stage (lower section) will be displayed at the right hand side of the map.

| Section | Information |
|---|---|
| | This symbol means "itinerary". All information displayed below refers to the final destination. This section is only available if you have indicated more than one destination to navigate to. |
| | This symbol means "stage". All information displayed below refers to the next stage point. |
| Line 2 | ETA (Estimated time of arrival). |
| Line 3 | Remaining time to arrival (estimated). |
| Line 4 | Remaining distance to arrival (estimated). |

8. Tap **Save** to save the modifications.

   The modifications will be taken over and displayed on the map.

# 4 Navigation and Itinerary planning

**Topics covered in this chapter:**


| | | |
|---|---|---|
| 4.1 | General notes on navigation | page 56 |
| 4.2 | Navigating to a destination | page 57 |
| 4.3 | Navigating to several destinations (Itinerary planning)<br>Working on itineraries, storage and management | page 59 |
| 4.4 | Functions which are useful for navigation<br>Displaying the route list<br>Adding a stage point during navigation<br>Blocking a route section<br>Keeping the logbook | page 63 |

## 4.1 General notes on navigation

The use of ***OnCourse Navigator*** may only be effected at your own risk.

**Attention:** To protect yourself and others from accidents please do not operate the navigation system while driving!

**Attention:** You must not look at the display except when it is absolutely safe to do so!

**Attention:** The road layout and the traffic signs are absolutely prior to the instructions of the navigation system.

**Attention:** You must not follow the instructions of ***OnCourse Navigator*** except when the circumstances and the road traffic regulations allow doing so. ***OnCourse Navigator*** will guide you to your destination even when you have left your planned itinerary..

*Obstructed GPS reception*

When you turn off the GPS receiver or when the reception of GPS-signals is obstructed ***OnCourse Navigator*** does not close but navigation is interrupted.

As soon as the GPS receiver works again the navigation system notices a possible change of your current position and recalculates the route. You may simply continue navigation.

**Notice:** Navigation will always continue automatically when you switch off your hardware without closing ***OnCourse Navigator*** before.

*Quitting navigation mode*

When you quit navigation mode by command the main screen appears. You may then indicate another destination or reassume the by selecting the former destination from the **Recent destinations** list.

*Arriving at your destination*

When you have reached your destination the system pronounces the message "You have reached your destination!"

The map is no more presented in navigation mode. A small red arrow indicates your current position.

## 4.2 Navigating to a destination

*Navigating to a destination…*

1. Enter your destination as described in “Indicating destinations”, page 30.
2. Tap the **Start navigation** button.

   The **ROUTE OPTIONS** screen opens:

3. Tap the **TYPE OF ROUTING** field and select one of the following options:

| Option | Signification |
|---|---|
| Fast route | The quickest route will be calculated. |
| Short route | The shortest route will be calculated. |
| Pedestrian route | A route for pedestrians will be calculated. One-way directives and prohibitions of vehicular traffic will be disregarded. |

4. Tap the **Interstates**, **Ferries**, and **Tollways** fields successively and select one of the following options:

| Option | Signification |
|---|---|
| Permitted | The respective kind of street will be regarded for route calculation. |
| Avoid | The respective kind of street will be avoided if reasonable. |
| Forbidden | The respective kind of street will be disregarded for route calculation. |

**Notice:** The Route options settings will be saved. You will no more need to enter them except if you want to navigate using modified options.

5. Tap **Start navigation**.

   The route is now being calculated. The map is being displayed in navigation mode.

## 4.3 Navigating to several destinations (Itinerary planning)

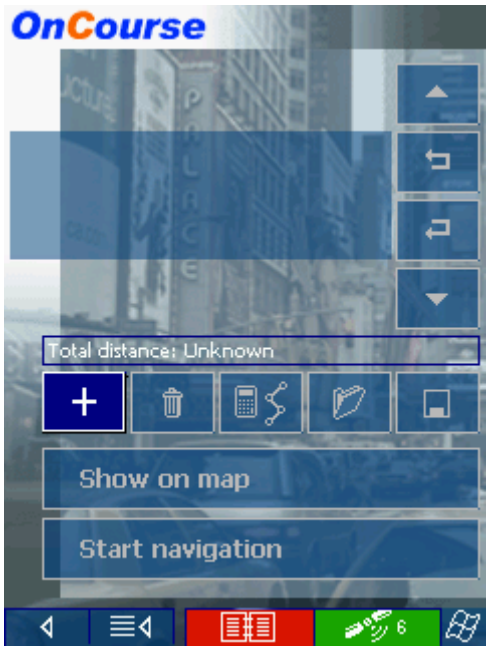
*Itinerary planning*

You may plan itineraries without receiving GPS-signals, e.g. comfortably at home. Planned itineraries may be stored. Thus you may plan as many itineraries as you want, e.g. for holidays.

*Navigating to several destinations…*

1. On the main screen, tap **Several destinations**.

   The **ITINERARY** screen opens:



2. Tap the **Add destination** icon to indicate the first stage point.

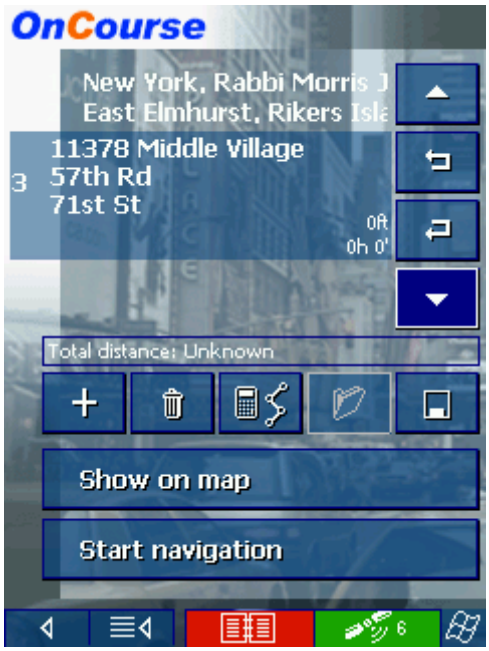
   The **Destination** screen opens.

3. Indicate the destination as described in “Indicating destinations”, page 30.

4. Tap the **Add to itinerary** icon.

   The **ITINERARY** screen opens. The destination is added as Stage point 1.

5. Repeat steps 2-4 for every stage point you want to add to the itinerary.




6. Tap the entry of the stage point you want to navigate to first.

**Notice:** You have to select the stage point you want to navigate to first. You may then continuer navigation when it was interrupted. You may as well navigate to only some of the stage points of a stored itinerary.

7. Tap **Start navigation**.

   The route is now being calculated. The map is being displayed in navigation mode.

*Continuing navigation after the arrival at a stage point…*

If you have planned an itinerary with several stages, navigation to the next stage point starts automatically when you have reached a stage point. For details, please refer to “Itinerary”, page 105.

### 4.3.1 Working on itineraries, storage and management

*Survey*

You may plan as much itineraries as you want, e.g. for holidays. You may save them and use them later for navigation purposes. At any moment, you may add stage points, modify the order of the stages, or display the itinerary on the map.
The following commands are available:

*One place up*

Tap the **One place up** icon to navigate to the respective stage point earlier (example: stage 3 becomes stage 2).

*One place down*

Tap the **One place down** icon to navigate to the respective stage point later (example: stage 2 becomes stage 3).

*Add stage*

Tap the **Add destination** icon to add a stage point. The new stage point will be added at the end of the list. You may shift it forward using the **One place up** icon.

*Delete stage*

Tap the **Delete destination** icon to delete the respective stage point.

*Calculate the route*

Tap the **Calculate the route** icon to calculate the distance and the estimated duration of the entire itinerary. The information will be displayed after you have entered (or confirmed) the route options.

Furthermore, the distance and the estimated duration of each stage will be indicated with the stage entries.

*Load an itinerary*

Tap the **Load itinerary** icon to load a saved itinerary, e.g. to modify it or for navigation purposes. If you had already entered stage points, the stage points of the loaded itinerary will be inserted after the stage point, which is currently selected.

*Save the itinerary*

Tap the **Save itinerary** icon to save the itinerary. Enter an name for the itinerary into the **NAME OF THE ITINERARY** dialog box.

Tap **Show on map** to display the entire itinerary on the map. The route will be highlighted in green:

## 4.3.2 Simulating the route

*Simulation*

You may execute a simulated navigation along the itinerary when the route has been calculated.

**Notice:** The reception of GPS-signals is not necessary for the simulation.

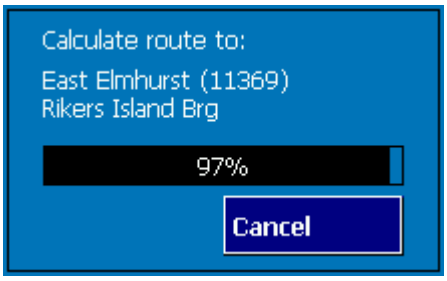
*Simulating the route…*

1. Tap the **Show on map** icon.

   The itinerary is displayed on the map.

2. Tap the **Additional functions** icon.
3. Tap **Start simulation**.

   The route will be recalculated for simulation purposes




   and simulation starts when calculation is ready.

*Stop simulation*

1. To quit simulation, tap the **Additional functions** icon.
2. Tap **Quit navigation**.

## 4.4 Functions which are useful for navigation

*Survey*

In ***OnCourse Navigator*** the following functions are available in navigation mode:

- ⇔ Adding a stage point during navigation, see page 64.
- ⇔ Blocking route sections, see page 65.
- ⇔ Keeping the logbook, see page 66.

### 4.4.1 Displaying the route list

*Route sections*

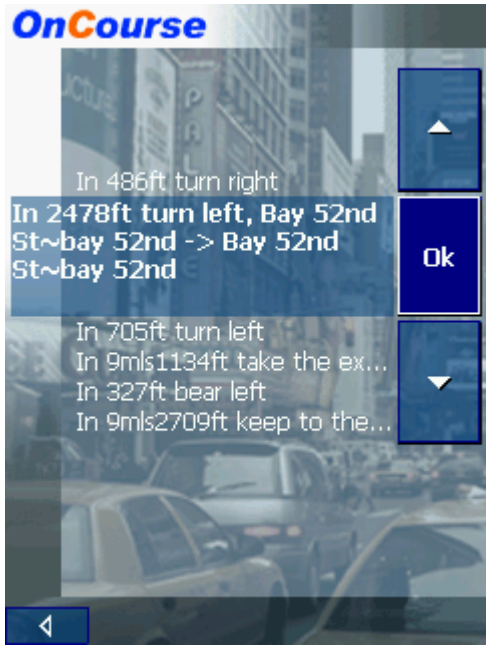
During navigation (or just after the calculation of the route) you may display the route list, which informs about the distance and duration from one way point to the next.

*Displaying the route list…*

**Precondition**: The map is being displayed.

1. Tap the **Additional functions** icon .
2. Tap **Show route list**.

   The **ROUTE LIST** screen opens.




The route list informs about the distance to the next turn, the type of the next maneuver, the name of the street in which you are just before carrying out the described maneuver and the name of the street into which you should turn next.

## 4.4.2 Adding a stage point during navigation

*Adding a stage point during navigation…*

At any moment during navigation you may add a new stage point to your itinerary. The route will be recalculated in order to make the new stage point the next destination to navigate to. The other remaining stage points will be navigated to after the new one.

*Adding a stage point…*

**Precondition**: The map is being displayed in navigation mode.

1. Tap the **Additional functions** icon.
2. Tap **Set interim destination**.

   The **DESTINATION** screen opens.
3. Indicate the new stage point as described in “Indicating destinations”, page 30.
4. Tap the **Set as route point** button.

   The route will be recalculated in order to make the new stage point the next destination to navigate to.

**Notice:** You may as well select the new stage point directly on the map, just as described in “Indicating destinations on the map”, page 39. Tap the respective place and hold. From the context menu, select **Add to route**.

## 4.4.3 Blocking a route section

*Blocking a route section manually*

You may block a route section manually in order to evade it. Manual blocking forces a recalculation of the route.

Presume that you are driving on an interstate and a radio message announces a traffic jam of 4 miles near your current position. With the “Block route sections” function you may instruct the navigation system to evade the announced traffic jam.

**Notice:** If your GPS receiver disposes of the TMC module, ***OnCourse Navigator*** notices and evades obstacles concerning your itinerary automatically.

A manual blocking is only valid for the current navigation process. The respective route section will be unblocked for the next navigation or when you restart the software.

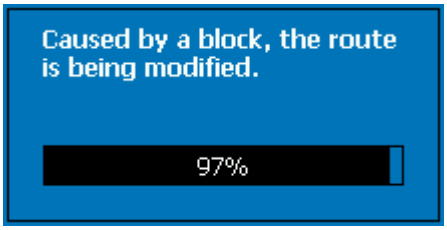
*Blocking a route section…*

**Precondition**: The navigation system is in navigation mode and the map is being displayed.

1. Tap the **Additional functions** icon.
2. Tap **Block road**.

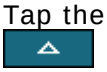
   The **BLOCKING** screen opens.
3. Enter how many miles (from your current position on) you want to block.
4. Tap **OK**.

   This forces a recalculation of the route. The indicated route section will be evaded. On the map, it will be highlighted on red.




*Unblocking a route section*

1. Tap the **Additional functions** icon**.**

   
2. Tap **Unblock**.

   The route section is now unblocked. The navigation system uses the route, which had been calculated originally.

## 4.4.4 Keeping the logbook

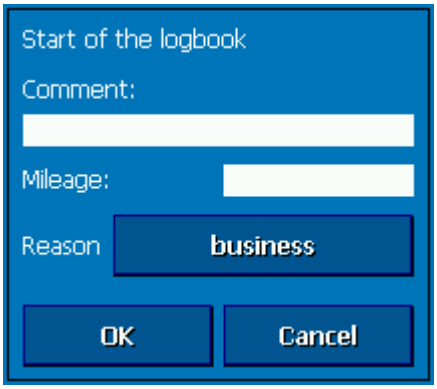
*Survey*

You may make ***OnCourse Navigator*** keep a logbook. Any start of the logbook forces the creation of an Excel file in the root directory of your Pocket PC. You may transmit this file to your PC and open it with, e.g., ***Microsoft Excel***.

*Starting the logbook…*

1. Tap the **Logbook** icon .

   The **LOGBOOK** screen opens:




2. Enter the reason of your journey into the **Comment** field.
3. Enter the mileage at the beginning of your trip into the **Mileage** field.
4. Tap the **Reason** button and indicate whether it is a **business** journey or a **private** journey.
5. Tap **OK**.

   The system creates the first logbook entry. The **Logbook** icon changes from red to green (Logbook enabled).

*Exiting the logbook…*

Collecting data on your trip stops when you arrive at your destination, when you quit navigation, or when you quit ***OnCourse Navigator***. A last entry for the point you have been reaching now will be added. Alternatively you may tap the **Logbook** icon. Tap the **Action** field and select **Exit**. The **Logbook** icon changes from green to red (Logbook disabled).

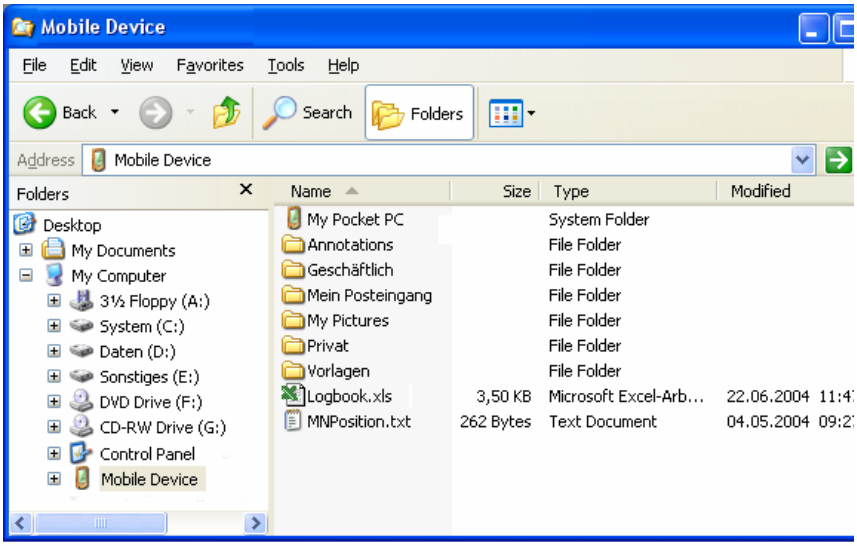
*Adding an entry…*

You may possibly want to add entries to the logbook, e.g. when your car was refueled or when you have visited several clients without using your car. In this case tap the **Logbook** icon. Tap the **Action** field and select **Add entry**.

*Working with the logbook…*

You may transmit the logbook file to your PC where you may open it and modify the entries (if necessary).

1. Establish an ***ActiveSync*** connection between your PC and your Pocket PC. (For details refer to the manual or your Pocket PC)
2. In the root directory of your Pocket PC select the logbook file named "Logbook.xls".




3. Copy the file to your PC and open them with ***Microsoft Excel***.

   The following information is provided by the logbook file: the mileage at the beginning of the journey, the reason of the journey, town and street, the date, the distance and the duration of the journey, and others like average and maximum speed. You may print the logbook or, if necessary, add them to the logbook you are keeping for tax purposes.

# 5 Additional software: MapExport

**Topics covered in this chapter:**


| | | |
|---|---|---|
| 5.1 | Functionality of MapExport | page 70 |
| | Map export and transfer | |
| | Transfer of Standard map extracts | |
| 5.2 | User's interface and basic functionality | page 71 |
| | Starting MapExport | |
| | Operating elements | |
| | Hot keys | |
| | Structure of the windows | |
| 5.3 | Working with maps | page 76 |
| | Loading and displaying maps | |
| | Icons | |
| 5.4 | Exporting segments of the map | page 80 |
| | Corridor surrounding an itinerary | |
| | Area | |
| 5.5 | Transferring segments of the base map | page 93 |

# 5.1 Functionality of MapExport

## 5.1.1 Map export and transfer

**Notice:** You do not dispose of ***MapExport*** unless you have purchased the 4-CD-version of ***OnCourse Navigator*** and installed the software.

*Survey*

The transfer of maps is divided into two independent steps:

⇔ Map export:
The generation of determined map segments and their storage on the hard disk of your PC.

For details, please refer to “Corridor surrounding an itinerary”, page 80 and to “Area”, page 89.

⇔ Map transfer:
Transfer of exported maps from your PC’s hard disk to your Pocket PC.

There is no need to execute these two steps one after the other. As exported maps are stored on your PC’s hard disk they may be transferred to your Pocket PC at any moment.

*Duration of both map export and map transfer*

Depending of the quantity of data and the performance of your PC, the exportation of a map segment may take several hours. It is the same with the transfer of this segment to your Pocket PC via an ***ActiveSync*** connection. We recommend using a card reader to transmit large map segments.

## 5.1.2 Transfer of Standard map extracts

*Transfer of Standard map extracts*

If you have obtained two CDs containing ready-to-use map segments with your navigation software, you may, with ***MapExport***, directly transmit them to your Pocket PC or to a memory card.

For details, please refer to “Transferring segments of the base map”, page 93.

## 5.2 User's interface and basic functionality

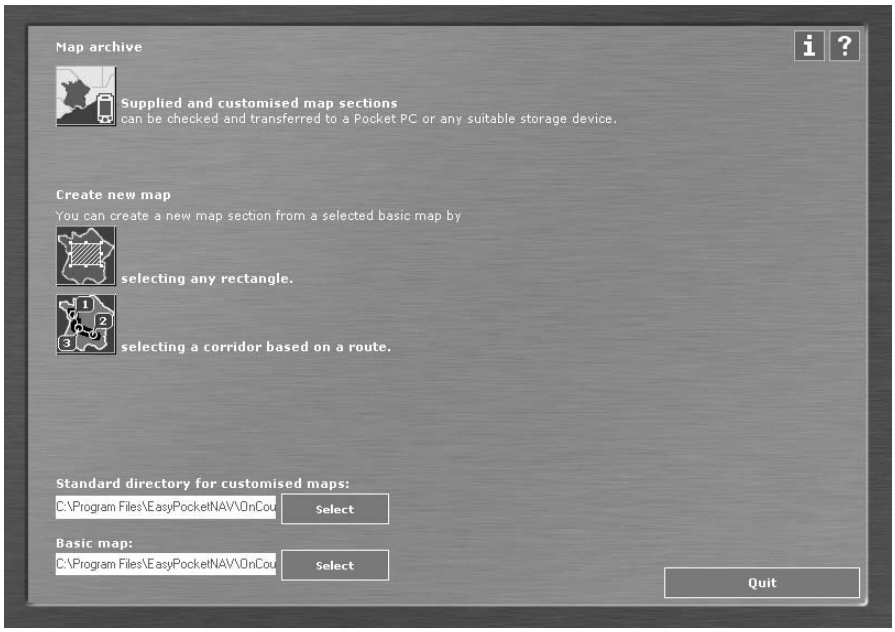
### 5.2.1 Starting MapExport

*Starting MapExport…*

1. Start ***MapExport*** on your PC by clicking **Start** > **Programs** > **OnCourse Navigator 4 > MapExport**.

   The **MAIN MENU** opens:

*Main menu*




Via the **MAIN MENU** you may access all functions of the software.

Click the **Map archive** icon to transmit provided or self-exported map segments to your Pocket PC or to a memory card.

For details, please refer to “Transferring segments of the base map”, page 93.

Click the **Area** icon to export a rectangular segment of the base map.

For details, please refer to “Area”, page 89.

Click the **Corridor** icon to export a corridor segment based on an itinerary.

For details, please refer to “Corridor surrounding an itinerary”, page 80.

*Standard directory for the basic map*

Click the **Select** button on the “Basic map” section to determine another folder for the base map.

For details, please refer to “Base map”, page 76.

*Standard directory customized maps*

Click the **Select** button on the Customized maps section to determine another folder for maps you have exported yourself.

For details, please refer to “Customized maps”, page 76.

Click **Quit** to quit ***MapExport***.

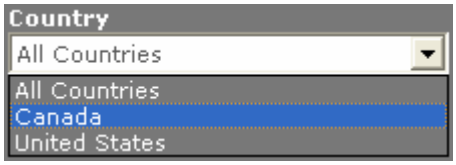
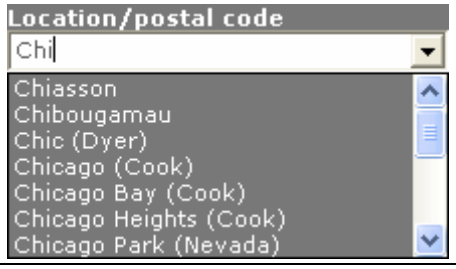
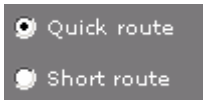
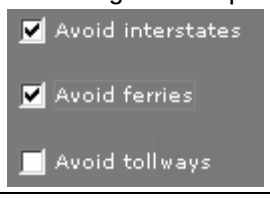
Click this icon to obtain information on the installed software version.

Click this icon for Online help.

## 5.2.2 Operating elements

*Survey*

The operating elements of ***MapExport*** are listed below:

| Element | Function |
|---|---|
| Entry field | Make entries into entry fields.<br> |
| List field | Select between the entries listed in a list field.<br>  |
| Command button | Click a command button to execute an action, e.g. renaming a map.<br> |
| Combo box | A combo box is a combination of both entry field and list field. Make an entry or select one of the listed entries.<br>  |
| Option group | Select one of the available options.<br>  |
| Checkbox | Select one or several options by checking the respective checkboxes.<br>  |

### 5.2.3 Hot keys

*Survey*

The hot keys which enable **MapExport** operation without mouse are listed below:

| Key | Function |
|---|---|
| [TAB] | Focuses the next field or button<br>Focuses the next menu item. |
| [SHIFT] + [TAB] | Focuses the previous field or button<br>Focuses the previous menu item. |
| Arrow keys | [UP] – Selects the previous list item or focuses the previous radio button of an option group.<br>[DOWN] – Selects the next list item or focuses the next radio button of an option group. |
| [ENTER] | Executes the action of the focused command button.<br>Validates a town or street entry. |
| [SPACE] | Activates / deactivates the focused radio button of an option group<br>Checks / Unchecks the focused checkbox. |
| [ALT] + [DOWN] | Opens the list of the focused combo box. |
| [ESC] | Closes the dialog box.<br>Closes the combo box list. |
| [F1] | Calls Online help. |
| [ALT] + [F4] | Quits Online help.<br>Quits ***MapExport***. |

## 5.2.4 Structure of the windows

### Main menu

*Use and structure*

⇔ Via the **MAIN MENU** you may access all functions of the software.

⇔ The paths of the standard directories for the basic map and for Customized maps are indicated and may be modified.

### Corridor, Area, Map archive

*Corridor, Area, Map archive*

These windows consist of two sections: a map section al the left and a functional section at the right. Open these windows via the **MAIN MENU**.

*Map section*

The map sector displays the currently loaded map (or a segment of it). Any object which may be determined as destination may also be displayed on the map: the towns, streets / roads and Point of Interest contained in the database of places. At the upper right corner of the map you may find icons with which you may scroll the map and determine its scale.

*Functional section*

Varying according to the displayed window, the functional sector provides information and operating elements which are needed for map exportation and transfer.

*Command buttons*

The following command buttons are to be found on any of the **CORRIDOR**, **AREA**, and **MAP ARCHIVE** windows:

Click the **Main menu** button to return to the **MAIN MENU**. There you may open another window or quit ***MapExport***.

Click the **Online help** button to access Online help.

# 5.3 Working with maps

## 5.3.1 Loading and displaying maps

### Base map

*Survey*

During the installation process the Base map has been stored on your PC's hard disk.

The path to the folder containing the Base map is indicated in the **Base map** field of the **MAIN MENU** and may be modified there.

This map is the base for exporting map segments. It is displayed in the Map section of the **AREA** and **CORRIDOR** windows.

*Transferring the Base map to another folder of your hard disk…*

1. In the **WINDOWS EXPLORER**, create a new folder for the Base map.
2. Cut the current folder of the Base map and copy it into the new folder.
3. In the **MAIN MENU** of ***MapExport***, click the **Select** command at the right of the **Basic map** field.

   The **SELECT FOLDER** dialog box opens.
4. Select the new folder for the Base map.
5. Click **OK**.

   The new path is now indicated in the **Basic map** field.

### Customized maps

*Survey*

"Customized maps" are all areas and corridors of the Base map you have exported. ***MapExport*** has stored them on the hard disk of your PC.
The path to the folder containing the customized maps is indicated in the **Customized maps** field of the **MAIN MENU** and may be modified there (see below).
Customized maps may be transferred to the Pocket PC or to a memory card.

**Notice:** A copy of the customized maps remains on the hard disk, even after the transfer to the Pocket PC.

*Loading a Customized map…*

1. On the **MAIN MENU**, click the **Map archive** icon.

   The **MAP ARCHIVE** window opens.
2. In the **Customized maps** list field of the functional section, click the entry of the map to display.

The respective map is now being displayed in the Map section at the left of the window.

*Standard folder for customized maps*

A standard folder for customized maps has been created during the installation process. All customized maps you have exported (areas and corridors) are stored therein.

*Modifying the path to the standard folder for Customized maps…*

1. In the **WINDOWS EXPLORER**, create a new folder for Customized maps.
2. In the **MAIN MENU** of ***MapExport***, click the **Select** command at the right of the **Customized maps** field.

   The **SELECT FOLDER** dialog box opens.
3. Select the new folder for the Customized maps.
4. Click **OK**.

   The new path is now indicated in the **Customized maps** field.

## Standard maps

*Survey*

There are CDs with already exported map segments included in the delivery, which are ready for use on your Pocket PC.

You may load these maps directly from the CD-ROM and as well transmit them to your Pocket PC.

*Loading a Standard map…*

1. Insert the CD containing the respective map into your CD-ROM drive.
2. On the **MAIN MENU**, click the **Map archive** button.

   The **MAP ARCHIVE** window opens.
3. In the **Standard maps** list field of the functional section, click the entry of the map to display.

   The respective map is now being displayed in the Map section at the left of the window.

**Notice:** If you do not have inserted the right CD you will be prompted to do so. The respective map will then be displayed in the Map section at the left of the window.

## 5.3.2 Icons

*Survey*

At the upper right corner of the map, there are icons to scroll the map, to determine the scale of the map, and to define segments of the map in order to export them. Depending on which window is active, some icons may be deactivated (for example the segment definition icons on the **MAP ARCHIVE** window).

Scrolling the map:

1. Click the **Scroll map** icon.

   The mouse pointer becomes a hand.

2. Click on the map, keep the left mouse button pressed and drag the map into the desired direction.

Click the arrow icons to scroll the map into the respective direction.

**Notice:** Alternatively, you may scroll the map using the arrow keys of your keyboard.

Zooming into the map:

Click the **Zoom in** icon to increase the scale of the map.

**Notice:** You may as well zoom in by pressing the NUM[+] key (on the numeric keyboard) or by rolling the mouse wheel upwards.

Zooming out of the map:

Click the **Zoom out** icon to reduce the scale of the map.

**Notice:** You may as well zoom out by pressing the NUM[-] key (on the numeric keyboard) or by rolling the mouse wheel downwards.

Displaying the entire map:

Click the **Entire map** icon to display the entire map.

Scaling the map to the size of a rectangle:

Click the **Rectangle size** icon to draw a rectangle and to scale the map to its size.

Searching for a place or a Point of Interest:

Click the **Search** icon to search for a place or a Point of Interest.

Centering a determined area:

The **Center** icon is activated only on the **AREA** window. Click this icon to scale the map to the size of a marked rectangle and to center it on the map.

For details, please refer to “Area”, page 89.

Adding a stage point:

The Stage point icon is only activated on the **CORRIDOR** window. Click this icon to add a stage point by clicking it on the map.

For details, please refer to “Corridor surrounding an itinerary”, page 80.

Defining an area:

The **Draw area** icon is activated only on the **AREA** window. Click this icon to define a rectangular area which may be exported.

For details, please refer to “Area”, page 89.

# 5.4 Exporting segments of the map

## 5.4.1 Corridor surrounding an itinerary

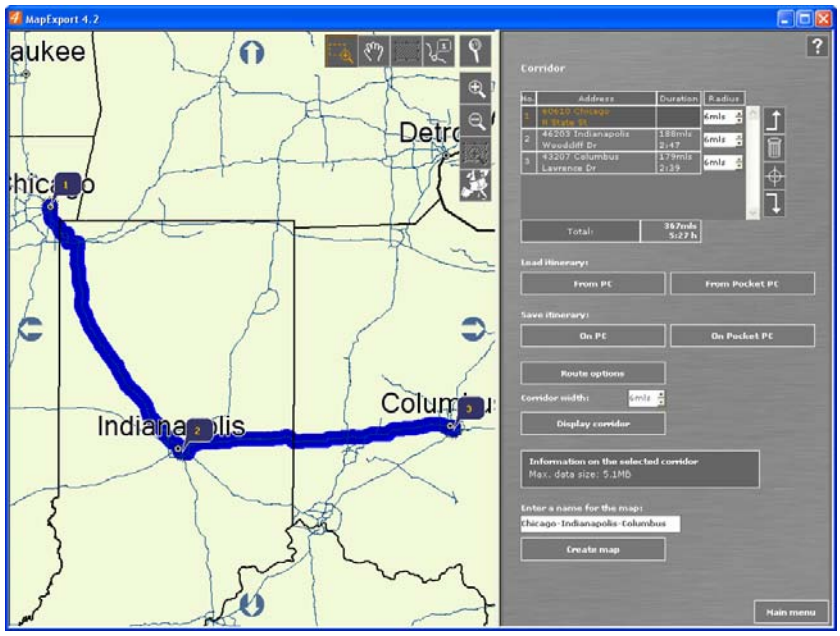
*Survey*

You may cut a corridor of the base map and export it. The definition is done by selecting stage points of an itinerary and by indicating the width of the corridor and the radius round the stage points. The stage points will be exported with the map. In ***OnCourse Navigator***, you may select them as destinations for navigation purposes (For details, please refer to “Working on itineraries, storage and management”, page 61).

*Defining a corridor…*

1. On the **MAIN MENU**, click the **Corridor** icon.

   The **CORRIDOR** window opens:




   The base map is being displayed in the map sector. The functional sector shows a list of the stage points, information, and the needed operational elements.

*Procedure*

The definition of a corridor is divided into 6 steps:

- ⇔ definition of the stage points of an itinerary, page 81,
- ⇔ definition of the radius around the stage points, page 83,
- ⇔ definition of the width of the corridor, page 83,
- ⇔ definition of the route options, page 84,
- ⇔ final control of the itinerary, page 85,
- ⇔ export of the corridor, page 88.

## Defining the stage points of an itinerary

*Survey*

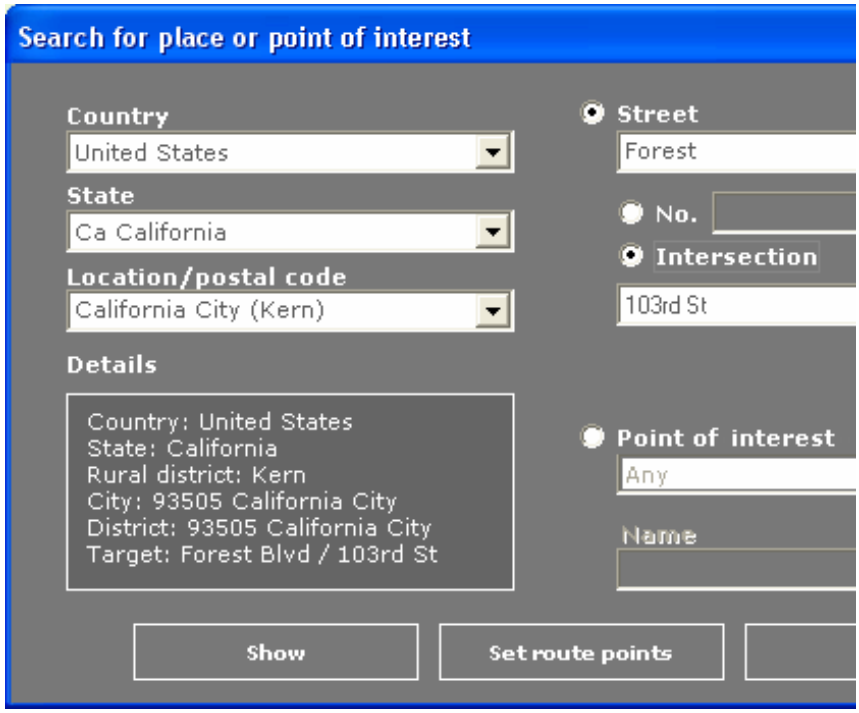
Any town, street, or Point of Interest covered by the base map may be selected as stage point. To determine a stage point, you may

- ⇔ enter it by keyboard or
- ⇔ click it on the map.

*Adding stage points…*

1. Click the **Search** icon.

The **SEARCH FOR PLACE OR POINT OF INTEREST** dialog window opens.




2. Click the **Country** combo box and select the destination country.

**Notice:** If you want to dispose of the destinations of all countries covered by the currently loaded map, select **All countries**. Note that in this case you may not enter a postcode to indicate the destination town.

3. Click the **State** combo box and select the destination state.
4. Enter the stage point city into the **Location / postal code** combo box. If **United States** is selected in the **Country** field, you may also enter the ZIP code.
5. Activate the **Street** option button.
6. Enter the destination street into the **Street** combo box.

**Notice:** You do not need to enter a street suffix, or a street type to get a search result. For example, if you are looking for a street called "S Main Avenue", simply type in "main".

7. Enter a house number into the **No.** field at the right hand side if possible or enter the name of crossroad into the **Intersection** entry field.
8. Click the **Set route points** button to determine the entered address as stage point.

   The address will be added to the list of stage points. On the map, a small flag will indicate the stage point with the number of its position on the itinerary.
9. Repeat steps 2 to 6 for each address you want to add to the list of stage points.

*Adding a Point of Interest as stage point…*

1. Click the **Search** icon.

   The **SEARCH FOR PLACE OR POINT OF INTEREST** dialog window opens.
2. Click the **Country** combo box and select the destination country.

**Notice:** If you want to dispose of the destinations of all countries covered by the currently loaded map, select **All countries**. Note that in this case you may not enter a postcode to indicate the destination city.

3. Click the **State** combo box and select the destination state.
4. Enter the stage point city into the **Location / postal code** combo box. For cities in the United States you may also enter the ZIP code.
5. Activate the **Point of Interest** option button.
6. In the **Point of Interest** combo box, select the main category of the Point of Interest (e.g. “Airports”).
7. In the **Name** combo box, select the desired Point of Interest.
8. Click the **Set route points** button to determine the selected Point of Interest as stage point.

   The Point of Interest will be added to the list of stage points. On the map, a small flag will indicate the stage point with the number of its position on the itinerary.
9. Repeat steps 2 to 7 for each Point of Interest you want to add to the list of stage points.

*Selecting a stage point on the map…*

1. On the map, search for the place or Point of Interest you want to set as stage point.
2. Click the **Stage point** icon.

The mouse pointer becomes an arrow with a small flag.

3. Click the desired place (or Point of Interest) to add it to the list of stage points.

   The address (or Point of Interest) will be added to the list of stage points. On the map, a small flag will indicate the stage point with the number of its position on the itinerary.

**Notice:** If you click a place which is not accessible by car, the nearest accessible place will be taken over as stage point.

## Defining the radius around the stage points and the corridor width

*Defining the radius around the stage points…*

A circle with a determined radius around the stage points will be exported with the corridor. This grants navigation in the neighborhood of the stage points, even outside the calculated route.

1. Enter the desired value for the radius into the **Radius** entry field. Values between 2 miles and 150 miles are allowed.

*Defining the corridor width…*

2. Enter the desired value for the corridor width into the **Corridor width** entry field. Values between 1 mile and 60 miles are allowed.

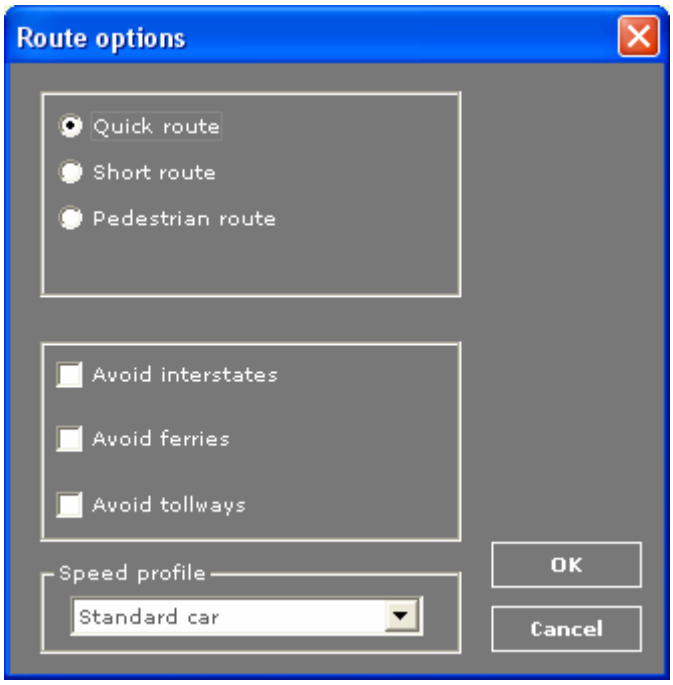
If you leave the calculated route, a new route may be calculated within the selected corridor (and within the selected circles around the stage points).

## Defining the route options

*Defining the route options…*

1. Click the **Route options** button.

The **ROUTE OPTIONS** dialog window opens:




*Route options*

2. Select one of the following options from the upper section:

| Option | Signification |
|---|---|
| Quick route | The quickest route will be calculated. |
| Short route | The shortest route will be calculated. |
| Pedestrian route | A route for pedestrians will be calculated. One-way directives and prohibitions of vehicular traffic will be disregarded. |

*Speed profile*

3. Select the appropriate entry from the **Speed profile** combo box.

   This entry will have an effect on the calculation of the remaining time and of the **e**stimated **t**ime of **a**rrival (ETA).

*Roads to be avoided*

4. Determine whether you want to **Avoid interstates**, to **Avoid ferries**, and / or to **Avoid tollways** by checking the respective checkboxes.
   Even if you check the boxes, the respective roads will only be avoided if it is possible with reasonable detour and retardation.
5. Click **OK**.

**Notice:** The **ROUTE OPTIONS** configuration will be saved. You will not have to modify them except if you want to determine other route options.

## Checking, displaying and exporting itineraries

*Survey*

You may plan as much itineraries as you want, e.g. for holidays, in order to use them later for navigation purposes.
At any moment, you may add stage points, change their order or display an itinerary on the map.
The following commands are available:

*One place up*

Click the **One place up** icon to navigate to the respective stage point earlier (example: stage 3 becomes stage 2).

*One place down*

Click the **One place down** icon to navigate to the respective stage point later (example: stage 2 becomes stage 3).

*Adding route points…*

Determine other route points and add them to the list of route points.

For details, please refer to “Defining the stage points of an itinerary”, page 81.

*Delete stage*

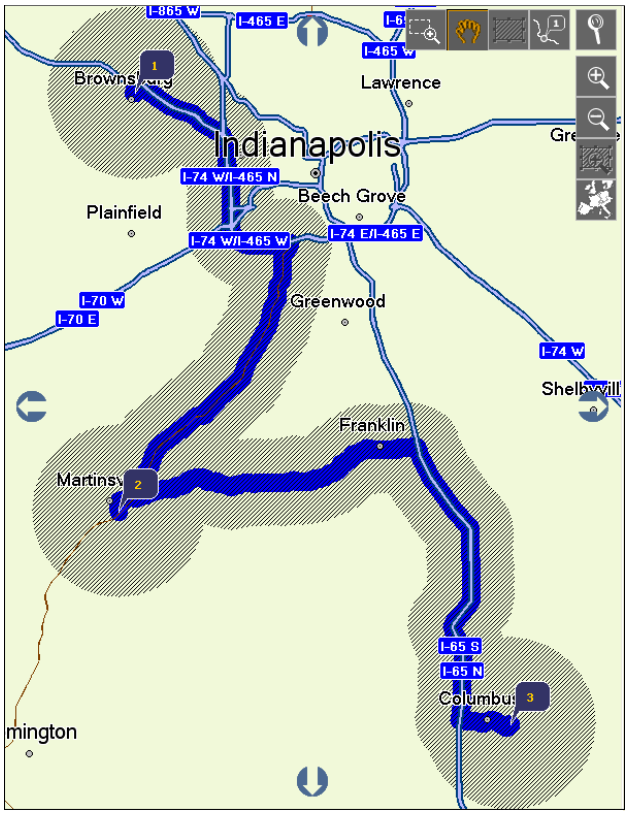
Click the **Delete stage point** icon to delete the respective stage point.

*Display stage point*

Click the **Display stage point** icon to display the respective stage point on the map.

*Displaying and calculating the corridor…*

Click the **Display corridor** icon to display and to calculate the route with its corridor.
The route will be highlighted in blue, the corridor and the circles around the stage points in transparent gray. The stage points will be indicated by small flags.




*Route information*

When the route has been calculated, the following information is being displayed on the functional section:

⇔ In the **Duration** column, the distance and the estimated duration to the next stage point are being indicated.

| No. | Address | Duration |
|---|---|---|
| 1 | 60610 Chicago<br>N State St | |
| 2 | 46203 Indianapolis<br>Woodcliff Dr | 188mls<br>2:47 |
| 3 | 43207 Columbus<br>Lawrence Dr | 179mls<br>2:39 |

⇔ In the **Total** field, the total distance and the total duration are being indicated.

| | |
|---|---|
| Total: | 367mls<br>5:27 h |

⇔ In the **Information on the selected corridor** section, the amount of required memory is being indicated.

**Information on the selected corridor**
Max. data size: 3.7MB

**Notice:** If more than 150 MB of memory are required, you will be prompted to reduce the map segment.

*Loading the stage points of a saved itinerary…*

Click **From PC** to load the stage points of an itinerary which is saved on the hard disc of your PC.

Click **From Pocket PC** to load the stage points of an itinerary which is saved on your Pocket PC.

The stage points will be added to the list of stage points and may be modified.

*Saving the itinerary…*

Click **To PC** to save the itinerary to the hard disc of your PC.

Click **To Pocket PC** to save the itinerary to your Pocket PC.

On the **SAVE AS…** dialog window, enter a name for the itinerary.

## Exporting the corridor

*Survey*

Having entered stage points, radius and corridor width, you may initiate the exportation of the corridor to the hard disc of your PC. The new map may be transferred to the Pocket PC instantly after exportation or at a later moment.

*Entering the name of the map…*

1. Enter the name of the new map into the respective entry field:

*Starting exportation…*

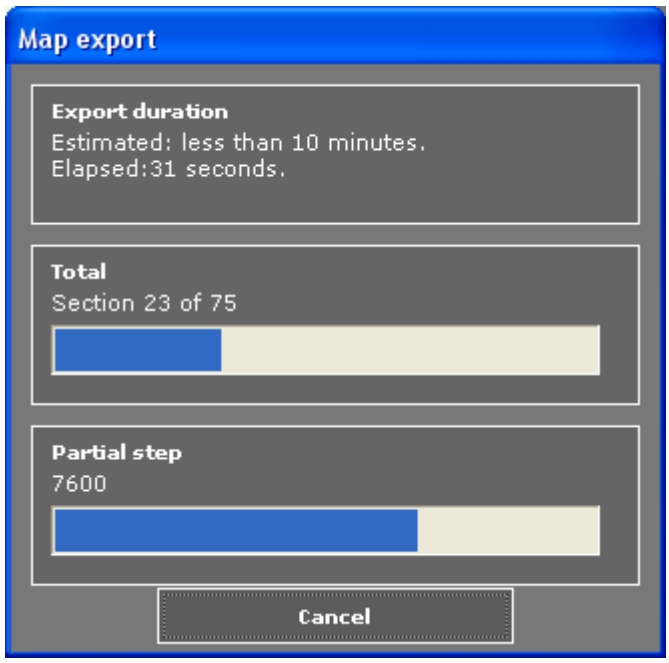
2. Click the **Create map** button.

Exportation of the map begins. It will be stored into the standard folder for Customized maps.

**Notice:** If the route has not been calculated yet, ***MapExport*** will calculate it now in order to verify the size of requested memory.

If more than 150 MB of memory are required, you will be prompted to reduce the map segment.

The **MAP EXPORT** dialog window opens:




The approximate duration of the exportation process (less than 10 minutes, 10 to 30 minutes etc.) and the already elapsed time are indicated. Two progress bars indicate the progress of exportation.

*Transferring the map to the Pocket PC…*

Having exported the map, you may transmit it to the Pocket PC or export other segments of the base map and transmit them to the Pocket PC at a later moment.

For details, please refer to “Transferring segments of the base map”, page 93.

## 5.4.2 Area

*Survey*

You may cut a rectangle of the base map and export it. The map segment may be exported to the hard disc and may then be transferred to your Pocket PC.

*Looking for Hawaii…?*

Hawaii is not covered by the base map. The delivery of ***OnCourse Navigator*** includes, however, an already exported map section of Hawaii, which you may directly transfer to your Pocket PC.

1. To transmit the map of Hawaii, click the **Hawaii** button.

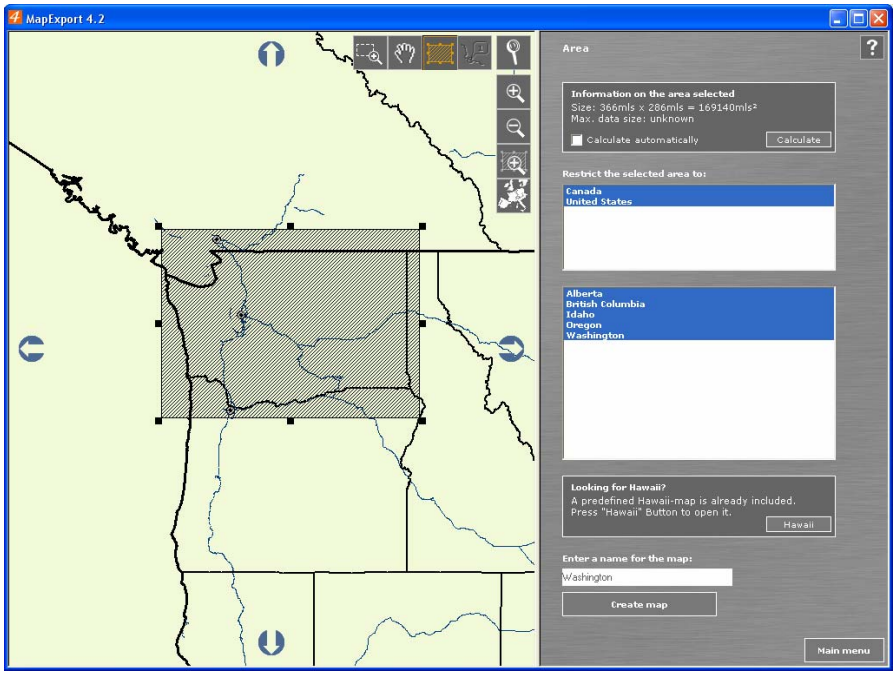
   The **MAP ARCHIVE** window opens.

2. Proceed as described in “Transferring segments of the base map”, page 93.

*Determining an area…*

1. On the **MAIN MENU**, click the **Area** icon.

   The **AREA** window opens:




   The base map is being displayed in the map sector. The functional sector shows information and the needed operational elements.

*Procedure*

1. On the map, search for the area you want to export.

If the area is to cover certain places or Points of Interest, you may search for them in the database of places.

Click the **Search** icon.

For details, please refer to “Defining the stage points of an itinerary”, page 81.

2. Click the **Draw Area** icon.

3. On the map, click one corner of the rectangle to define, keep the left mouse button pressed and draw the desired rectangle.

   The determined rectangle is highlighted by black hatching.

In the **Information on the area selected** section, length, width, and surface of the selected area are indicated.

*Limiting the selection…*

If the selected zone contains parts of at least two countries or two states or provinces/territories, the concerned countries will be indicated in the upper **Restrict the selected area to** box, the concerned states or provinces/territories in the lower box.

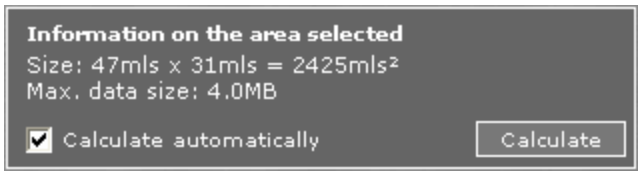
All concerned countries and/or states or provinces/territories are selected (highlighted in blue). In order to deselect a country or state or province/territory, click on its entry.

Only the cartographic data of those regions, which are within the rectangle and within the selected (highlighted in blue) countries and/or states or provinces/territories will be exported. This may be useful to minimize the memory requirements of an exported area.

*Calculating the size of required memory automatically…*

Determine whether the size of required memory is to be calculated automatically.

Check the **Calculate automatically** check box.




The size of required memory will be calculated and indicated automatically just after the determination (or modification) of the area.

*manually…*

Click the **Calculate** command button.

The size of required memory will be calculated and indicated.

**Notice:** If more than 150 MB of memory are required, you will be prompted to reduce the map segment.

*Checking and modifying the area…*

You may change the size and the position of the currently indicated area.

*Modifying the size…*

1. With the mouse, point one of the little squares at the borders of the area.
2. When the mouse pointer becomes an arrow with two tips ⟷, keep the left mouse button pressed and draw the rectangle to the desired size.

*Shifting the area…*

1. Point at the middle of the area.
2. Keep the left mouse button pressed and draw the rectangle to the desired position.

## Exporting the area

*Survey*

Having made all necessary indications, you may initiate the exportation of the area to the hard disc of your PC. The new map may be transferred to the Pocket PC instantly after exportation or at a later moment.

*Entering the name of the map…*

1. Enter the name of the new map into the respective entry field:

*Starting exportation…*

2. Click the **Create map** button.

Exportation of the map begins. It will be stored into the standard folder for Customized maps.

**Notice:** If the route has not been calculated yet, ***MapExport*** will calculate it now in order to verify the size of requested memory.

If more than 150 MB of memory are required, you will be prompted to reduce the map segment.

The **MAP EXPORT** dialog window opens.

The approximate duration of the exportation process (less than 10 minutes, 10 to 30 minutes etc.) and the already elapsed time are indicated. Two progress bars indicate the progress of exportation.

*Transferring the map to the Pocket PC…*

Having exported the map, you may transmit it to the Pocket PC or export other segments of the base map and transmit them to the Pocket PC at a later moment.

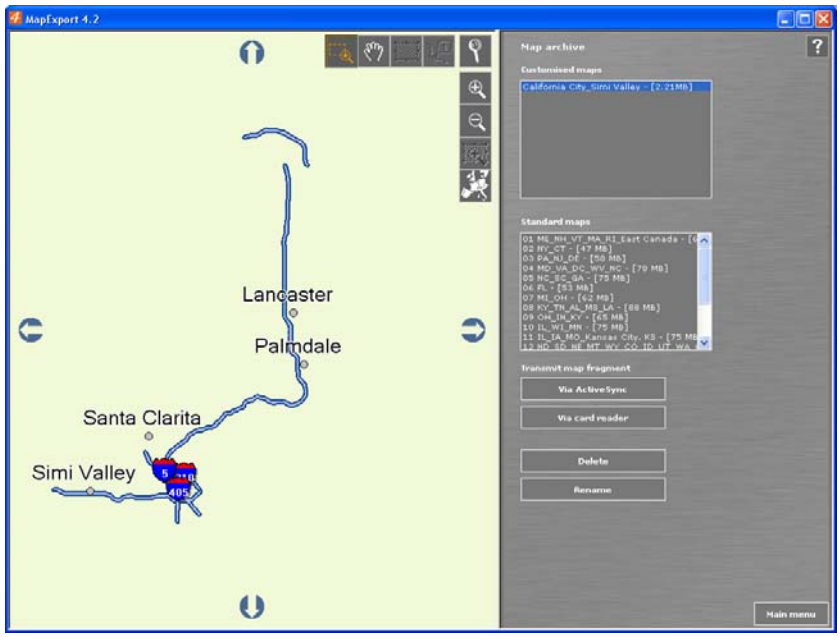
For details, please refer to “Transferring segments of the base map”, page 93

## 5.5 Transferring segments of the base map

*Opening the Archive window…*

1. On the **MAIN MENU**, click the **Map archive** icon.

   The **MAP ARCHIVE** window opens.




On the functional sector, there are two list fields:

- ⇔ The first list contains all customized maps which are stored in the standard folder for Customized maps on the hard disk of your PC.
- ⇔ The second list contains Standard maps (exported segments of the base map included in the delivery).

The size of requested memory is indicated behind the names of the maps.

*Checking customized maps…*

Customized maps may be displayed, renamed, or deleted.

*Displaying a customized map…*

On the **Customized maps** list field, click the entry of the map to be displayed.

The desired map will be displayed in the Map sector at the left hand side of the window.

*Renaming a map…*

1. On the **Customized maps** list field, click the entry of the map to be renamed.
2. Click the **Rename** command button.

3. On the **NEW NAME** dialogue window, enter the new name.
4. Click **OK** to save the new name of the map.

*Deleting a map…*

1. On the **Customized maps** list field, click the entry of the map to be deleted.
2. Click the **Delete** command button.

3. Confirm by clicking **Yes**.

   The map and its entry on the **Customized maps** list field are deleted.

*Transferring maps…*

There is two ways to transmit a map:

- ⇔ Via an ***ActiveSync*** connection.
- ⇔ Via a card reader to a memory card.

1. To transmit a Standard map, insert the respective CD-ROM into your CD-drive.

*Transfer via an ActiveSync connection*

2. Establish an ***ActiveSync*** connection between your PC and your Pocket PC (for details, please consult the manual of your Pocket PC).
3. Select the map to transmit from either the **Customized maps** list field or the **Standard maps** list field.

   The selected map is displayed on the map sector.
4. Click the **Via ActiveSync** command button.

   The **SELECT DIRECTORY** dialogue window opens. The size of memory requested by the map is indicated.
5. Select the folder to which the map is to be transferred. This folder must not be within the range of the “My documents” folder.

5a Click the **New folder** icon to create a new folder for the map.

5b Enter the name of the new folder and click **OK**.

6. Click **OK**.

   The **MAP TRANSFER** dialogue window opens. Two progress bars indicate the progress of transfer.

   As soon as the map has been transferred to the Pocket PC, a dialog box prompts that the transfer is complete.

*Transfer via a card reader*

1. Connect the card reader to your PC and insert the memory card.
2. To transmit a Standard map, insert the respective CD-ROM into your CD-drive.
3. Select the map to transmit from either the **Customized maps** list field or the **Standard maps** list field.

   The selected map is displayed on the map sector.
4. Click the **Via card reader** command button.

   The **BROWSE FOR FOLDER** dialogue window opens. The size of memory requested by the map is indicated.
5. Select the directory of the memory card.

5a Click the **Make new folder** button to create a new folder for the map.

5b Enter the name of the new folder and click **OK**.

6. Click **OK**.

   The **MAP TRANSFER** dialogue window opens. Two progress bars indicate the progress of transfer.

   As soon as the map has been transferred to the Pocket PC, a dialog box prompts that the transfer is complete.

# 6 Additional software: SkinEditor

**Topics covered in this chapter:**

6.1 Skin creation page 98

6.2 Selecting a Skin in OnCourse Navigator page.99

## 6.1 Skin creation

**Notice:** You do not dispose of ***SkinEditor*** unless you have purchased the 4-CD-version of ***OnCourse Navigator*** and installed the software.

*Survey*

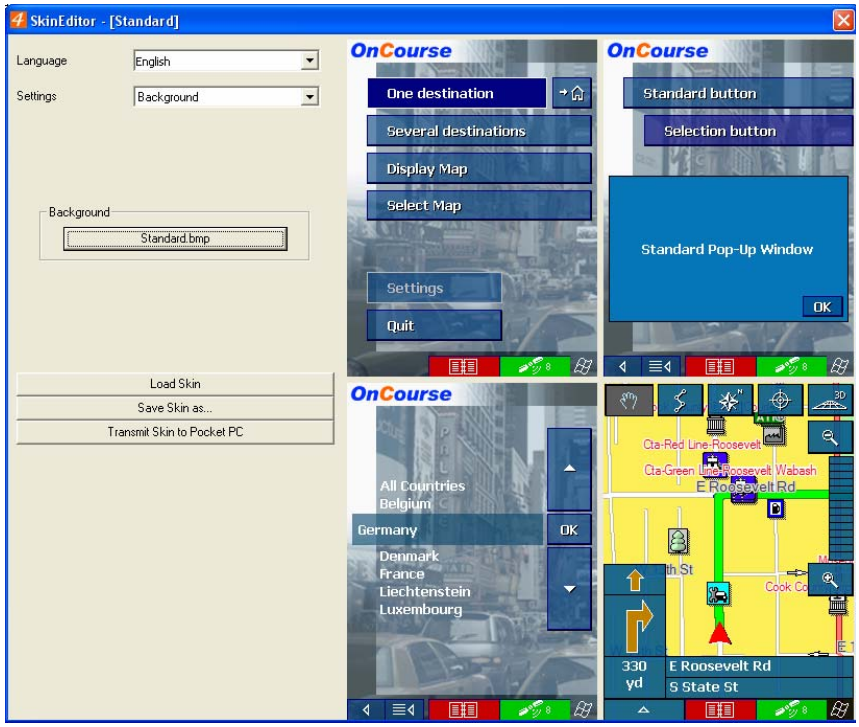
With ***SkinEditor***, you may personalize the user interface of ***OnCourse Navigator***.

You may determine the colors of the screen elements and the background of the screens. Any modification will instantly be displayed on the example screens at the right hand side of the **SKINEDITOR** window.

*Personalizing...*

1. Start ***SkinEditor*** by clicking **Start** > **Programs** > **OnCourse Navigator 4** > **SkinEditor**.

   ***SkinEditor*** opens:




2. Via the combo boxes, determine the new skin.

**Notice:** The background image must be saved as bitmap (bmp). Other formats are not supported. We recommend using bitmaps with a resolution of 240 x 320 pixels. Bitmaps with lower or higher resolutions will automatically be stretched to the size of the screen.

3. Click **Save Skin as...** to save the new skin.
4. Click **Transmit Skin to Pocket PC** to provide the skin to ***OnCourse Navigator***.

## 6.2 Selecting a Skin in OnCourse Navigator

*Selecting a Skin in OnCourse Navigator…*

5. Start ***OnCourse Navigator*** on your Pocket PC.
6. Tap the **Settings** button.
7. Select the **REPRESENTATION** screen and tap the **Skin** field.
8. Select one of the available skins and tap **OK**.
9. Tap the **Save** button to load this skin at the next starts of ***OnCourse Navigator***.

# 7 Appendix

**Topics covered in this chapter:**


7.1 Annex A: Configuration of OnCourse Navigator page 102
- Map information
- Route information
- Volume
- Representation
- Auto mode
- Speed profile
- Logbook
- Keypad
- Itinerary
- Format
- GPS
- Home address

7.2 Annex B: Problem solutions page 107
- Installation
- Performance
- GPS receiver

# 7.1 Annex A: Configuration of OnCourse Navigator

*Configuration*

In ***OnCourse Navigator***, you may modify the following settings:

- ⇔ Map information, see below.
- ⇔ Route information, see page 103.
- ⇔ Volume, see page 103.
- ⇔ Representation, see page 104.
- ⇔ Auto mode, see page 104.
- ⇔ Speed profile, see page 104.
- ⇔ Logbook, see page 105.
- ⇔ Keypad, see page 105.
- ⇔ Itinerary, see page 105.
- ⇔ Format, see page 105.
- ⇔ GPS, see page 106.
- ⇔ Home address, see page 106.

On the main screen, tap the **Settings** button to configure ***OnCourse Navigator***.

On the **SETTINGS** screen, tap the **Save** button to apply your modifications if you have made some.

## 7.1.1 Map information

*Map information*

On the **MAP INFORMATION** screen, you may effect the following modifications:

| Element | Signification |
|---|---|
| Info bar | The **Info bar** at the bottom of the map displays the scale of the map, the current gradient, the compass, the current height above sea level, and the current speed. Tap the respective command button to display (Yes) or not (No) the **Info bar**. |
| Points of Interest | Tap the respective command button to display (Yes) or not (No) **Points of Interest** on the map. |
| Street names | Tap the respective command button to display (Yes) or not (No) **Street names** on the map. |

## 7.1.2 Route information

*Route information*

On the **ROUTE INFORMATION** screen, you may effect the following modifications:

| Element | Signification |
|---|---|
| Dist. to final dest. | Remaining distance to the final destination (estimated) |
| Time to final dest. | Remaining time to the final destination (estimated). |
| ETA at final dest. | ETA (Estimated time of arrival) at the final destination. |
| | Tap the respective command buttons to display (Yes) or not (No) the respective information on the map.<br>All information displayed below refers to the final destination. This section is only available if you have indicated more than one destination to navigate to.<br> |
| Dist. to next dest. | Remaining distance to the next stage point (estimated). |
| Time to next dest. | Remaining time to the next stage point (estimated). |
| ETA at next dest. | ETA (Estimated time of arrival) at the next stage point. |
| | Tap the respective command buttons to display (Yes) or not (No) the respective information on the map.<br>All information displayed below refers to the next stage point.<br> |

## 7.1.3 Volume

*Volume*

On the **VOLUME** screen, modify the volume of the spoken indications of the navigation system.

Tap the **Volume** field and select another value.

### 7.1.4 Representation

*Representation*

On the **REPRESENTATION** screen, you may effect the following modifications:

| Element | Signification |
|---|---|
| Skin | Skins are made to personalize the user interface of ***OnCourse Navigator***.<br>Tap the **Skin** field.<br>Select one of the available skins and tap **OK**.<br>For details, please refer to “Skin creation”, page 98. |
| Shade at night | Tap this field and select whether the screen or your Pocket PC is to be darkened at night or not. |

### 7.1.5 Auto mode

*Auto mode*

On the **AUTO MODE** screen, you may effect the following modifications:

| Element | Signification |
|---|---|
| Autozoom | Autozoom increases or reduces the scale of the map, depending on your current speed.<br>Tap the **Autozoom** field.<br>Select<br>**No autozoom** if you do not want the scale to be modified in navigation mode.<br>**Standard autozoom** if you want the scale to be modified continuously in navigation mode.<br>**Low autozoom** if you want to increase the scale quicker than with normal autozoom.<br>**High autozoom** if you want to reduce the scale quicker than with normal autozoom.<br>Make your choice and tap **OK**. |
| Map | Tap this button to orientate the map by default to the north (Yes) or in driving direction (No). |

### 7.1.6 Speed profile

*Speed profile*

On the **SPEED PROFILE** screen, indicate your speed profile. This entry will have an effect on the calculation of the remaining time and of the **e**stimated **t**ime of **a**rrival (ETA).

Tap the **Speed profile** button. Select one of the available profiles and tap **OK**.

### 7.1.7 Logbook

*Logbook*

On the **LOGBOOK** screen, determine whether the logbook is to be started automatically at the beginning of navigation (Yes) or not (No).

Tap the **Start automatically on available GPS signal** button to toggle between Yes and No.

Independent from the settings made here, you may at any time start or stop the logbook via the icon.

### 7.1.8 Keypad

*Keypads*

On the **KEYPAD** screen, you may configure the hardware keys of your Pocket PC to execute the “up”, “down”, “left”, “right”, “enter” and “return” actions. This enables convenient and easy operation.

When you quit the navigation software, the keys will have their standard functionality.

Tap the **Key assignment** button to check or to modify the configuration.

### 7.1.9 Itinerary

*Proceeding automatically to the next stage point…*

On the **ITINERARY** screen, determine whether you want to navigate automatically to the next stage point after having reached a stage point (Yes) or not (No).

Tap the **Proceed automatically to next destination** button to toggle between Yes and No.

If you do not proceed automatically, you may proceed as follows:
On the map in navigation mode, tap the **Additional functions** icon.
Select **Next route point** and tap **OK**.

### 7.1.10 Format

*Units*

On the **FORMAT** screen, determine which units are to be used for time and distance indications.

| Element | Signification |
|---|---|
| Time | Tap the **Time** field to toggle between **12 hours** (AM/PM) and **24 hours** time format. |
| Distance | Tap the **Distance** field to toggle between **kilometers** or **miles** distance units. |

## 7.1.11 GPS

*GPS*

On the **GPS** screen, configure the GPS receiver.

| Element | Signification |
|---|---|
| Type of receiver | Tap the **Type of receiver** field. Select the appropriate receiver from the list and tap **OK**. |
| Com-Port | Tap the **Com-Port** field and indicate the COM / USB-port used by the receiver. |
| Baud | If you are using a GPS receiver of another brand (Type: Other receiver), enter the respective Baud rate into the **Baud** field. |

## 7.1.12 Home address

*Home address*

On the **HOME ADDRESS** screen, you may save your home address to quickly start navigation homewards from anywhere.

1. Tap **Enter your home address**.

   The **DESTINATION** screen opens.

2. Tap the **Address** button and enter your home address as described in “Entering a destination manually”, page 31.

3. Tap the **Set as home address** button.

   The address is indicated on the **HOME ADDRESS** screen.

# 7.2 Annex B: Problem solutions

## 7.2.1 Installation

*Installation failed*

Software installation on your Pocket PC has failed.

1. Uninstall the software by clicking **Start** > **Programs** > **OnCourse Navigator 4** > **De-installation** on your PC.
2. Reinstall ***Microsoft ActiveSync*** on your PC.
3. Reinstall the software.

## 7.2.2 Performance

*Slow calculation*

Route calculation is very slow; the voice indications in navigation mode are coming late.

The efficiency of both route calculation and navigation depends on the amount of free memory and on the kind of memory card you use.

In order to navigate properly, the system should dispose of at least 15MB of free memory on your Pocket PC after installation of the navigation software.

### 7.2.3 GPS receiver

*Possible error sources concerning the initialization of the GPS receiver*

If the GPS symbol stays red (no GPS-reception) even though the system has been installed correctly, this may be due to one of the following reasons:

- ⇔ Reason A: an incorrect COM-port is selected.
- ⇔ Reason B: the receiver is not supplied with power.

**A**

The GPS receiver is connected to another COM-port than COM 1.

1. On the main screen, tap the **Settings** button.

   The **SETTINGS** screen opens.
2. Via the arrow buttons, select **GPS**.
3. Tap the **COM-Port** field.
4. Select another COM-port.

   If the GPS symbol becomes green, you may start navigation.

**B**

The cigarette lighter is not permanently supplied with power.

If the GPS symbol stays red (no GPS-reception) even though you have tried all available COM-ports, it may be that your cigarette lighter is not permanently supplied with power.

1. Quit ***OnCourse Navigator***.
2. Start your engine.
3. Restart ***OnCourse Navigator***.

   The GPS receiver should now be ready for use within short time (the GPS symbol becomes green). In the future, start your vehicle before starting the navigation software.

# 8 Glossary

*COM-port*

A COM port is a connector to a communications interface, usually the serial port. The ports are numbered by a number behind “COM”. A communications interface is designed to connect hardware like a mouse or a GPS receiver.

*GMT*

GMT (**G**reenwich **M**ean **T**ime) is the mean solar time at the Royal Greenwich Observatory in Greenwich near London, England, which by convention is at 0 degrees geographic longitude. Theoretically, noon Greenwich Mean Time is the moment when the Sun crosses the Greenwich meridian (and reaches its highest point in the sky in Greenwich). Up to 1972, GMT was the global time standard. Because of the Earth's uneven speed in its elliptic orbit, GMT has been replaced by UTC (**U**niversal **T**ime **C**oordinated) which is an ultra stable time standard based on atomic clocks.

*GPS*

The GPS (**G**lobal **P**ositioning **S**ystem) is based on 24 satellites which are in orbit round the earth. They are permanently emitting the time and their current position. The GPS receiver receives this information and calculates the longitude and the latitude of its own current position.

The signals of at least three satellites are needed to determine the longitude and the latitude. With the signals of at least four satellites the elevation may be calculated, too. The determination has an accuracy of about 3 yards.

*HDOP*

The **H**orizontal **D**ilution **o**f **P**recision (HDOP) indicates the quality of position determination. Theoretically any value from 0 to 50 is possible. The smaller the value is, the more accurate is the position determination (value 0 = no deviation from the actual position). Values up to 8 are convenient for street navigation.

*Points of Interest*

Points of Interest are covered by the map and may be displayed on it. Harbors, airports, restaurants, hotels, petrol stations, public buildings, and others belong to the Point of Interest. You may determine Point of Interest as itinerary points for navigation purposes.

*Map exportation*

In ***MapExport***, exportation of maps means the determination of segments of the base map and their storage on the hard disk of your PC.

*Map transfer*

With ***MapExport*** you may transfer customized maps (which are stored on your PC) and Standard maps (included within the delivery) to your Pocket PC.

# 9 Index


**A**

Activation code ..... 15
Additional functions ..... 48
Assistance for navigation ..... 50
Autozoom .....104

**B**

Base map.....11, 13
Blocking..... 65
Bluetooth ..... 11

**C**

Contacts ..... 37
  Addresses ..... 37
Current position ..... 50

**D**

Database of places ..... 31
Destination
  Delete..... 42
  Navigate to..... 57
  Rename ..... 41
  Save..... 42

**E**

ETA (Estimated Time of Arrival).....103

**G**

GMT ..... 28
GPS ..... 10
  GPS icon ..... 28
  Receiver..... 11
  Signals..... 10
GPS receiver..... 56
  Bluetooth module ..... 17
  COM-port .....108
  Initialization..... 19
  Mount ..... 16
  Possible error sources .....108
  Settings .....106

**H**

HDOP ..... 28
Home address.....26, 43, 106

**I**

Indication of destinations
  Contacts..... 37
  Home address ..... 43
  Manually ..... 31
  On the map ..... 39
  Point of Interest ..... 33
  Recent destinations..... 42
  Saved destinations..... 41
  Voice command..... 44
  Voice recording ..... 44
Info bar .....52, 102
Information
  Itinerary..... 53
  Stage.....51, 53
Itinerary .....53, 105
Itinerary planning..... 59

**K**

Keys..... 105

**L**

Logbook.....66, 105

**M**

Main screen ..... 24
Map..... 45
  3D view..... 47
  Active ..... 45
  Auto mode..... 47
  Center ..... 47
  Display.....25, 46
  Info bar..... 52
  Information ..... 52
  Itinerary..... 47
  Orientation ..... 47
  Point of Interest .....52, 102
  Scroll ..... 47
  Segment ..... 14
  Street names .....52, 102

Zoom ..... 47
Zoom in ..... 47
Zoom out ..... 48
MapExport
Area ..... 89
Definition ..... 89
Export ..... 92
Position ..... 92
Size ..... 91
Base map ..... 76
Corridor ..... 80
Check ..... 85
Definition ..... 81, 82, 83
Export ..... 88
Information ..... 86
Customized maps ..... 76
Functional section ..... 75
Hot keys ..... 74
Icons ..... 78
Main menu ..... 71
Map
Delete ..... 94
Display ..... 76, 93
Load ..... 76
Map archive ..... 93
Rectangle ..... 78
Rename ..... 93
Scroll ..... 78
Transfer ..... 94, 95
Zoom in ..... 78
Zoom out ..... 78
Map export ..... 70
Map section ..... 75
Map segment
Area ..... 89
Corridor ..... 80
Map transfer ..... 70
Operating elements ..... 73
Operational elements ..... 78
Route options ..... 84
Standard folder ..... 72, 76, 77
Standard maps ..... 77
Mobile phone screen keyboard ..... 31


## N


Navigation
Begin ..... 57
Next stage ..... 105
Proceed automatically ..... 105
Quit ..... 49
Navigation software
Start ..... 24
Next stage ..... 105


## O


OnCourse Navigator
Quit ..... 25
Orientation ..... 104


## P


Personalise
Skin creation ..... 98
Personalization ..... 11
Personalize
Skin selection ..... 99
POI ..... 33
Point of Interest ..... 33, 52, 102
In another town ..... 36
Nearby ..... 34
Of superregional interest ..... 35
Proceed automatically ..... 105


## R


Recent Destinations ..... 42
Remaining distance ..... 103
Remaining time ..... 103
Route information ..... 50
Route options ..... 49, 57
Route point ..... 49
Route section ..... 63
Block ..... 65
Unblock ..... 65


## S


Saved destinations ..... 41
Screen
Address ..... 32
Configuration ..... 102
Destination ..... 30
Itinerary ..... 59
Point of Interest ..... 33
Settings ..... 102
Search facilities ..... 6
Security information ..... 4
Serial number ..... 15
Service ..... 7
Settings
Auto mode ..... 104
Format ..... 105
GPS ..... 106
Home address ..... 106
Itinerary ..... 105
Keypad ..... 105
Logbook ..... 105
Map information ..... 102
Representation ..... 104

Route information ..... 103
Speed profile ..... 104
Volume ..... 103
Skin ..... 98, 99
SkinEditor
Skin creation ..... 98
Skin selection ..... 99
Skins ..... 104
Speech guidance ..... 48
Speed profile ..... 104
Stage ..... 53
Stage point ..... 64
Street names ..... 52, 102
Support ..... 7

## T

Time of arrival ..... 103

## U

Units ..... 105

## V

Voice command ..... 44
Voice Instruction ..... 51
Volume ..... 103

## W

Way list ..... 63
Waypoints ..... 48

## Z

Zoom bar ..... 47