



# owner's manual and reference guide

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GPS/J™ ver. 2.7  
2007Q4



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## Introduction

### About This Manual

Thank you for choosing the GPS/J application. To get the most from GPS/J, take time to read through this owner's manual in order to understand all of the operating features.

### Related Documentation

GPS/J documentation includes books delivered in Acrobat Reader (PDF) format, release notes, online help, and readme files.

### Documentation Available Online

The GPS/J documents are available from the [www.gpsj.eu](http://www.gpsj.eu) web site.

### Documentation in Accessible Formats

The documentation is provided in accessible formats that are readable by assistive technologies for users with disabilities. You can find accessible versions of documentation at: <http://www.gpsj.eu>

### Contacting GPS/J Technical Support

If you have technical questions about this product that are not answered in this document, contact [support@gpsj.eu](mailto:support@gpsj.eu)

### GPS/J Team Welcomes Your Comments

GPS/J Team is interested in improving its documentation and welcomes your comments and suggestions. Submit your comments to GPS/J to [crm@gpsj.eu](mailto:crm@gpsj.eu)

Please include the part number (3-2007) of your document.



## ***Introduction***

### ***Warnings and Precautions***

#### **Important Information on Safe and Efficient Operation. Read this Information Before Using GPSJ Application**

##### **Exposure to Radio Frequency (RF) Energy**

Your phone contains a transmitter and a receiver. When it is ON, it receives and transmits RF energy. When you communicate with your phone, the system handling your call controls the power level at which your phone transmits.

Check if your phone is designed to comply with local regulatory requirements in your country concerning exposure of human beings to RF energy.

##### **RF Energy Interference/Compatibility**

**Note:** Nearly every electronic device is susceptible to RF energy interference from external sources if inadequately shielded, designed, or otherwise configured for RF energy compatibility. In some circumstances your phone may cause interference.

##### **Facilities**

Turn off your phone in any facility where posted notices instruct you to do so. These facilities may include hospitals or health care facilities that may be using equipment that is sensitive to external RF energy.

##### **Aircraft**

Turn off your wireless device whenever instructed to do so by airline staff. If your device offers a flight mode or similar feature, consult airline staff about use in flight. If your device offers a feature that automatically turns on the phone, then turn off this feature before boarding an airplane or entering an area where the use of wireless devices is restricted.

##### **Medical Devices**

###### **Pacemakers**

Pacemaker manufacturers recommend that a minimum separation of 15 centimeters (6 inches) be maintained between a handheld wireless phone and a pacemaker.

Persons with pacemakers should:

- ALWAYS keep the phone more than 15 centimeters (6 inches) from your pacemaker when the phone is turned ON.
- NOT carry the phone in the breast pocket.
- Use the ear opposite the pacemaker to minimize the potential for interference.
- Turn OFF the phone immediately if you have any reason to suspect that interference is taking place.

###### **Hearing Aids**

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

###### **Other Medical Devices**



If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.



## **Warning**

### **In the interest of safety, do not manipulate GPSJ software application while driving a vehicle**

Please do not try to change any settings on the GPSJ application while driving. Come to a complete stop or have a passenger make any changes. Taking your eyes off the road is dangerous and can result in an accident in which you or others could be injured.

Do not mount your phone over air bag panels or in the field of air bag deployment. Air bags can expand with a rapid force that can propel objects in their path toward the driver or passengers causing possible injury. Refer to air bag safety precautions contained in the vehicle owner's manual. Do not mount the phone in a place where driver or passengers are likely to impact it in an accident or collision.

For use in vehicles, it is the sole responsibility of the driver of the vehicle to operate the vehicle in a safe manner, maintain full surveillance of all driving conditions at all times, and not become distracted by the GPSJ application to the exclusion of safe driving practices. Failure by the driver of a vehicle equipped with a GPSJ application to pay full attention to operation of the vehicle is in motion could result in an accident or collision with property damage and personal injury.

### **Use good judgment**

This product is an excellent navigation aid, but it does not replace the need for careful orienteering and good judgment. Never rely solely on one device for navigating.

### **Use care**

The Global Positioning System (GPS) is operated by the U.S. Government, which is solely responsible for the accuracy and maintenance of the GPS network. The accuracy of position fixes can be affected by the periodic adjustments to GPS satellites made by U.S. government and is subject to change in accordance with the Department of Defense civil GPS user policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry and obstructions, such as buildings and large trees.

### **Use proper accessories**

Use good quality cables and antennas. The use of poor quality accessories may severely degrade performance or damage the receiver.

### **Caution**

It is the user's responsibility to use this product prudently. This Product is intended to be used only as a travel aid and must not be used for any purpose requiring precise measurement of direction, distance, location, or topography. This product should not be used as an aid to determine ground proximity for aircraft navigation.

The GPSJ application is a precision electronic NAVigation AID (NAVAID), any NAVAIID can be misused or misinterpreted and, therefore, become unsafe.



## Introduction

### ***Maintenance***

#### **Storage**

Do not store your phone where prolonged exposure to temperature extremes may occur (such as in the trunk of a car) as permanent damage may result. User information such as waypoints, routes, etc., is retained in the phone's memory without the need for external power. It is always a good practice to back up important user data by recording it manually.

### ***Total Customer Satisfaction***

At GPS/J Project, Total Customer Satisfaction is a top priority. If you have a question, a suggestion or a concern about your GPSJ software, we want to hear from you.

For e-mail queries contact: [crm@gpsj.eu](mailto:crm@gpsj.eu)

### ***Software License Agreement***

The GPS/J applications' Software License Agreement is attached to this document as Appendix C. Please read it before using GPS/J software.



## Introduction

### *GPS/J Limited Warranty*

#### Warranty Information

THE FOLLOWING LIMITED WARRANTY ON THE SOFTWARE IS INCORPORATED INTO LICENSE AGREEMENT BY REFERENCE

##### LIMITED WARRANTY

THE FOLLOWING LIMITED WARRANTY ON THE SOFTWARE IS INCORPORATED INTO LICENSE AGREEMENT BY REFERENCE

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This Warranty does not affect any statutory rights that you may have if you are a consumer, such as a warranty of satisfactory quality and fit for the purpose for which products of the same type are normally used under normal use and service, nor any rights against the seller of the Products arising from your purchase and sales contract.



## How to get Warranty Service

In most cases the authorised GPS/J Project dealer which sold and/or installed your GPSJ Software and original accessories will honour a warranty claim and/or provide warranty service. Alternatively, for further information on how to get warranty service please contact either the customer service department of your service provider or GPS/J Project's call centre at the telephone numbers enclosed with the product.

In order to claim the warranty service you must return the software and/or accessories in question to GPS/J Project. Please avoid leaving any supplementary items like SIM cards. The Product should also be accompanied by a label with your name, address, and telephone number; name of operator and a description of the problem. In the case of vehicular installation, the vehicle in which the GPSJ software is installed should be driven to the Authorised Repair Centre, as analysis of any problem may require inspection of the entire vehicular installation.

In order to be eligible to receive warranty service, you must present your receipt of purchase or a comparable substitute proof of purchase bearing the date of purchase.

This warranty will not apply if the type or serial numbers on the Product have been altered, deleted, duplicated, removed, or made illegible. GPS/J Project reserves the right to refuse free-of-charge warranty service if the requested documentation cannot be presented or if the information is incomplete, illegible or incompatible with the factory records.

Repair, at GPS/J Project's option, may include reflashing of software. Replaced software and/or accessories are warranted for the balance of the original warranty time period. The Warranty Term will not be extended. GPS/J Project does not warrant the installation, maintenance or service of the products or accessories.

When the Product is used in conjunction with ancillary or peripheral equipment not supplied by GPS/J Project, GPS/J Project does not warrant the operation of the Product/peripheral combination and GPS/J Project will not honour any warranty claim where the Product is used in such a combination and it is determined by GPS/J Project that there is no fault with the Product. GPS/J Project specifically disclaims any responsibility for any damage, whether or not to GPS/J Project equipment, caused in any way by the use of the GPSJ software, accessories, other software applications and peripherals when such accessories, software applications and peripherals are not manufactured and supplied by GPS/J Project.

## What Is Not Covered By The Warranty

This warranty is not valid if the defects are due to damage, misuse, tampering, neglect or lack of care and in case of alterations or repair carried out by unauthorised persons.

1. Defects or damage resulting from use of the Product in other than its normal and customary manner.
2. Defects or damage from misuse, access to incompatible sources, accident or neglect.
3. Defects or damage from improper testing, operation, maintenance, installation, adjustment, unauthorized software applications or any alteration or modification of any kind.
4. Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.
5. Defects or damage due to range, coverage, availability, grade of service, or operation of the cellular system by the cellular operator.
6. Defects or damage due to moist, liquid or spills of food.
7. Products rented on a temporary basis.



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## Getting Started

### *Installation, Setup and Features*

#### Overview of the Installation Process

This section describes the general process for installing and configuring the GPS/J application on your cell phone.

#### Supported Platforms

The GPS/J application has been tested with the following cell phones:

- Benq-Siemens C81, EF81, EF91, EL71, S68, S81
- Nokia 6630, 6680, 6681, 6682, N70, N90, 3250, E60, E61, E70, N71, N80, N91, N92, 6021, 6111, 6131, 6230, 6230i, 6255, 6265, 6265i, 6270, 6270, 6280, 6282, 7370, , 8800, 8801 (the following terminals has been temporarily removed from the list because of bug in BT handling by the operating system: 9300, 9300i, 9500, 7710)
- Motorola C975, E1070, E770, FOMA M1000 (UIQ 2.1), L6, PEBL U6 (V6), RAZR V3, black, SLVR L7 (V8), V360, V3x
- Siemens S65, S66, SK65, CX75, M75, S75, SL75, SXG75
- Benq-Siemens C81, EF81, EF91, EL71, S68, S81
- SonyEricsson P990, M600, W950, D750, K510, K600, K608, K610, K750, K790, K800, V600, W300, W550, W600, W800, W810, W900, Z520, Z530
- Samsung D347, D357, D407, D600, D800, D807, D820, D900, E530, E620, E720, E770, E780, E860, E900, X507, X800, X810, Z330
- LG 550

The GPS/J is designed to work on any device supporting JSR-82 (Java Specification Request No 82 for Bluetooth® connectivity). Use GPS/J Trial to check if your PDA has a Java (J2ME) runtime installed and if GPS/J application is going to work with your PocketPC, PALM or any other mobile device.

Track and waypoint import/export to the filesystem available only for JSR-75 capable hardware!

The following platforms are being used for development purposes and are part of a permanent test process:

- BenqSiemens S68
- Nokia 6021, 6230, 6680, N70
- Motorola V360
- Siemens SXG75
- SonyEricsson K600i, W800i

If your cell phone is not supported yet but is found on the JSR82 compatibility list (at <http://www.javablueetooth.com/jsr82devices.html>) go to: <http://wap.gpsj.eu> to download a GPS/J trial application without any charge. This application is designed to give the ability to check if your phone will work with GPS/J application.

If you need more information on JSR-82 go to <http://www.jcp.org/en/jsr/detail?id=82>



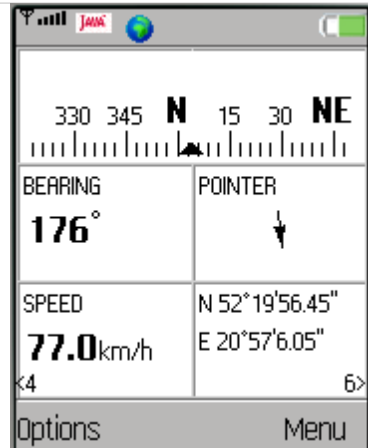
**Note:**

All screens used below as a reference for application functionality are based on SonyEricsson K750 capabilities. The actual functionality may vary dependently on the phone you own. It also depends on implementation of J2ME technology on your phone. Please go to "troubleshooting section" for more details.

## Getting Started

### Main Features

GPS/J provides you with all necessary information about your location, heading, bearing and distance to a waypoint, speed.



Heading and Bearing information can be displayed in a more convenient way – on the Compass.



You can visualize your location on the Map screen. It also presents the track record.





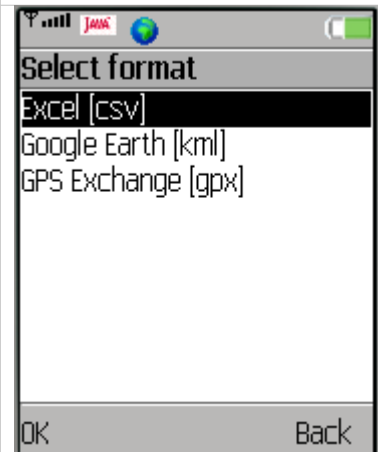
At any time you can download a raster, publicly available map from MapQest® of your location and its neighbourhood. It is downloaded on request via GSM infrastructure.



Waypoints and tracks can be exported and imported to/from three popular formats:

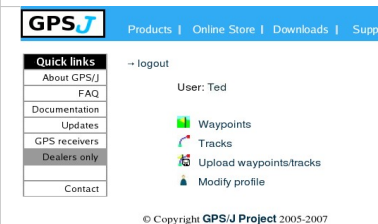
- CSV,
- KML,
- GPX.

Data files are stored in the local file system (not available on some devices) or sent via GPRS/UMTS to the Portal (see below).



GPS/J version 2.7 introduces the Portal, a Web application for:

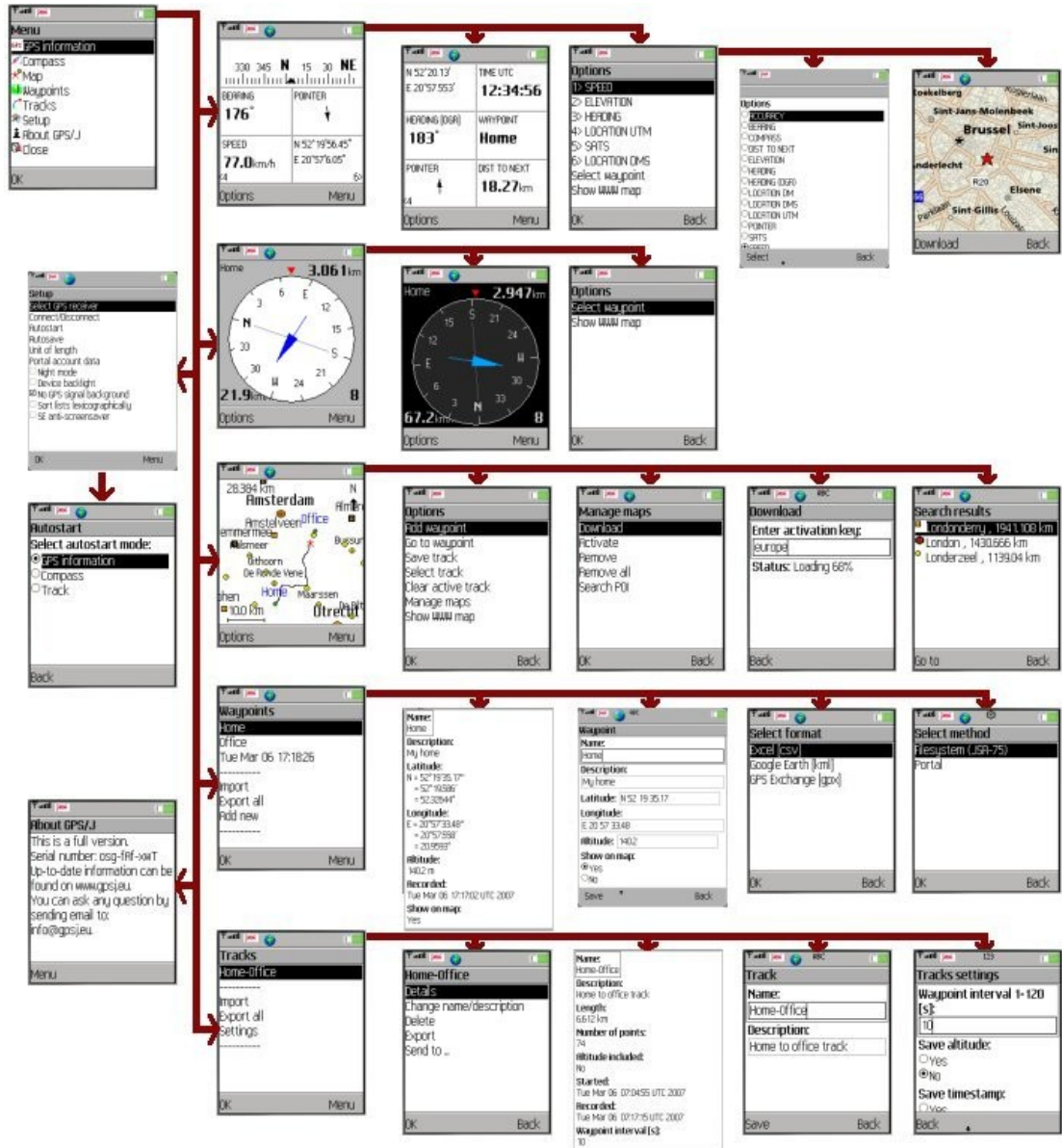
- track export and import,
- sharing waypoints and tracks with other GPS/J users,
- data backup & recovery.



Night mode can be switched on for convenient operation.



## Flow of the application



## Running the application for the first time

Please turn on your GPS receiver before running the application. After starting the application user is prompted to accept Bluetooth connection. To use the application for the purpose of navigation you are advised to confirm usage of the interface.

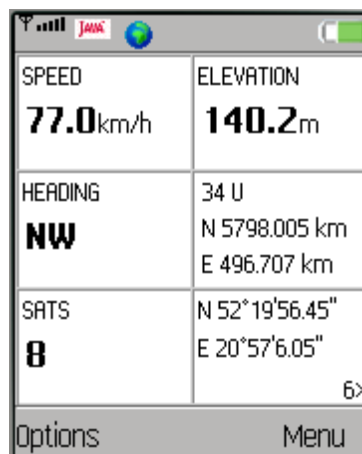
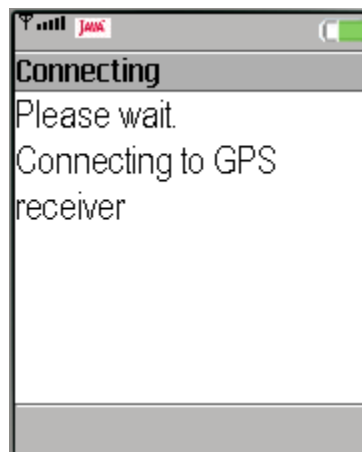
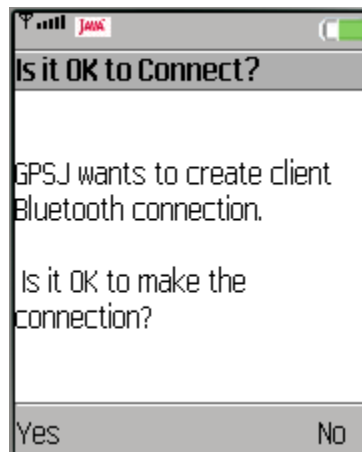
If you do not confirm usage of Bluetooth interface the connection with GPS receiver will not be possible.

As the next step application tries to discover Bluetooth devices available. The amount of time it takes depends on type of cell phone you use. When the search is finished you should select (by pressing “Connect”) the GPS receiver if it is on the list of discovered Bluetooth devices.

While establishing connection with GPS receiver GPS/J you will see the message as described on the screenshot.

When the connection is established application starts to show the GPS information it receives from the receiver. If the screen contains to information and the background is red you should expect the GPS receiver is not sending any positioning data. Wait until GPS receiver establishes its position.

Use the assigned “menu” function key to gain access to the application main menu to navigate through the rest of reach GPS/J functionality.



## Application structure

### Application main menu

From the main menu you have access to all of GPS/J functionalities. You may find the screenshots of the features and detailed description of each of them below.



### “GPS Information” screen

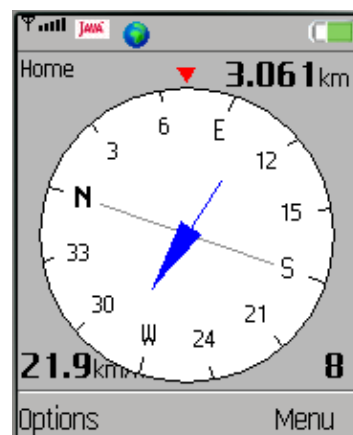
Three information screens present the following information:

- Current speed
- Geographic position in various formats
- Elevation
- Heading
- Bearing
- Compass
- Pointer and distance to selected waypoint
- Time
- Number of satellites received



### Compass screen

Compass indicates current heading, distance to the point and azimuth to the point.



### Map screen.

Shows location of hundreds of European cities and villages. Indicates current position, mileage with the track record and current scale. The map is capable of displaying user defined waypoints and saved tracks. POI databases of the whole world are available – see the Online Store at [www.gpsj.eu](http://www.gpsj.eu).



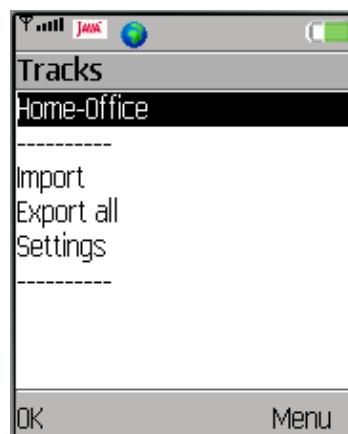
### Waypoints screen

This submenu allows you to manage your waypoints. It presents saved waypoints and allows editing, deleting, importing, exporting and adding new waypoints,



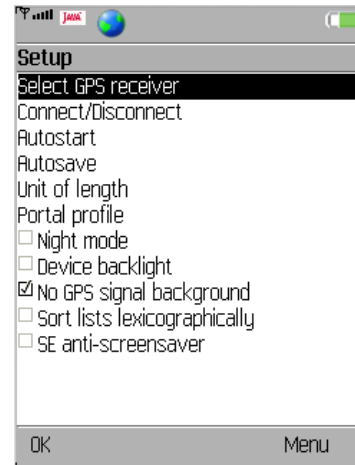
### Tracks screen

This submenu allows you to manage your tracks. It presents saved tracks and allows editing, deleting, importing and exporting tracks.



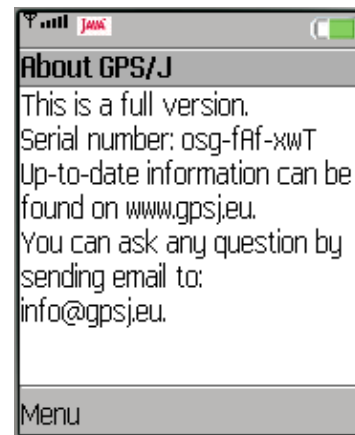
### Setup screen

The main purpose of the “Setup” menu is to reconfigure connection with the GPS receiver and to customize the application behavior.



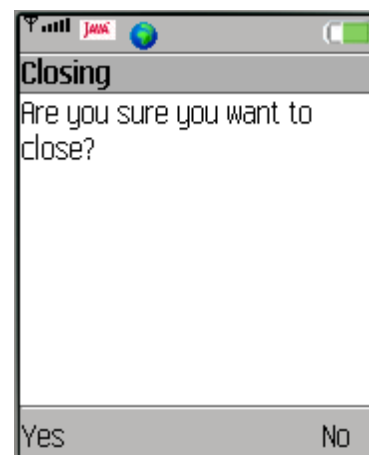
### “About GPS/J” screen

The screen provides information about your activation key, which you can use to contact GPS/J tech support or upgrade the GPS/J application.



### “Closing” screen

In this menu screen you are prompted to decide whether to exit the application or not. You can be notified if there is a track to be saved.



## „GPS Information”

The primary GPS Information screen provides by default six information fields.

- speed
- elevation
- heading (azimuth)
- geographic position (UTM format)
- number of satellites received
- geographic position (DD MM SS.SS format)

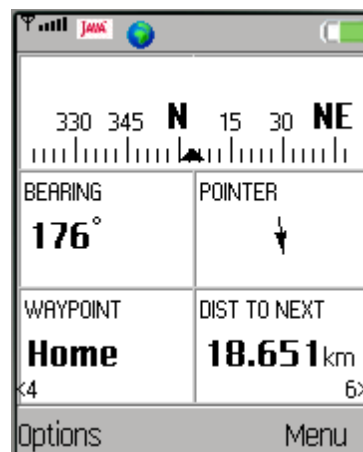
Use “6” key (and then “4”, key right and left also available on some devices) to navigate through the sets of information. Three customizable GPS Information screens are available.



Second GPS Information screen contains by default the following fields:

- compass
- azimuth to the chosen point
- pointer to the chosen point
- name of chosen point
- distance to the point

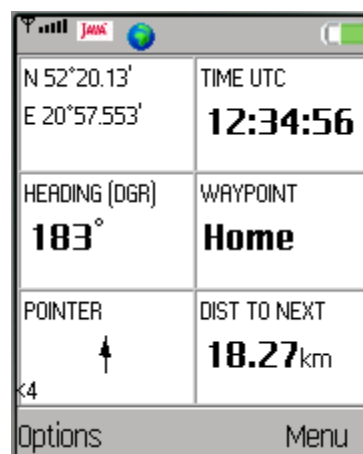
Use “6” and “4” to navigate through the sets of information.



The third GPS Information screen contains by default the following fields:

- geographic position (DD MM.MMM format)
- UTC time
- azimuth
- name of chosen point
- pointer
- distance

Use “4” to get back to the previous sets of information.

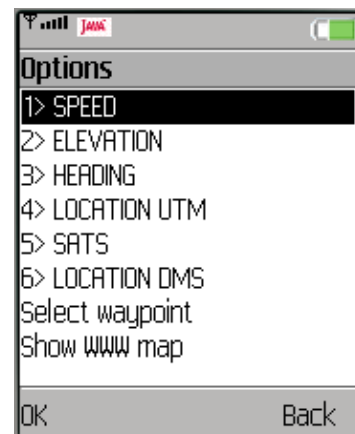


The night mode. Navigate to the Setup screen to switch it on.

From each of GPS Information screen you have access to the screen configuration menu by pressing “Options” function key. You may configure contents of each field, indicate the point you would like to navigate to, or download a raster map of your current location.

Mark the desired field and press „choose” key.

Then you will see one of the below described submenus.



Field configuration menu gives you opportunity to choose the information you would like to see in this field. You have the following options:

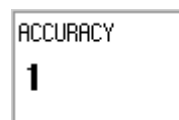
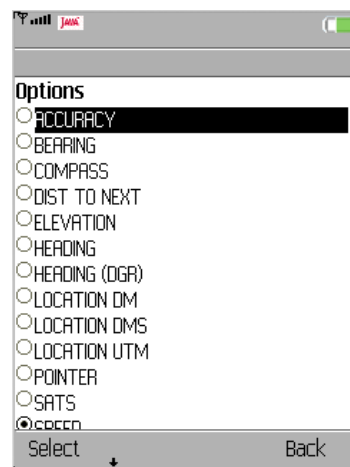
- UTC time
- accuracy
- distance
- heading
- heading in degrees
- compass
- pointer
- location (DD MM.MM format)
- location (DD MM SS.SS format)
- location (UTM format)
- speed
- point name
- number of satellites
- azimuth to the point
- elevation
- empty field

Each field's layout has been described at the end of the table.

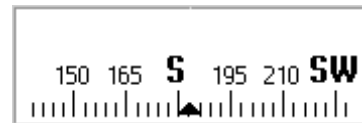
You should confirm your choice by pressing „choose”.

„ACCURACY” field presents the value of HDOP parameter (Horizontal Dilution of Precision).

„BEARING” field indicates the azimuth to the chosen point.



„COMPASS” field indicates the azimuth the user is moving in (Heading).



„DIST TO NEXT” presents the direct distance to the point.

DIST TO NEXT  
**18.651**km

„ELEVATION” point presents current elevation (meters above the sea level). The parameter is very inaccurate if the number of received satellites is below 6.

ELEVATION  
**140.2**m

„HEADING” field shows the approximate azimuth the user is moving into (N, NE, E, SE, S, SW, W, NW).

HEADING  
**NW**

„HEADING (DGR)” field shows the azimuth the user is moving into (in degrees)

HEADING (DGR)  
**183°**

„LOCATION DM” indicates current location in degrees and minutes. The first row indicates latitude. The second longitude.

N 50°16.045'  
E 18°55.995'

„LOCATION DMS” with degrees, minutes and seconds

N 50°15'57.65"  
E 18°56'23.45"

„LOCATION UTM” geographical location in UTM format (Universal Transverse Mercator) used on various types of maps. First row indicates information about zone field.

34 U  
N 5570.238 km  
E 353.177 km

„POINTER” graphically indicates the azimuth (direction) to the point.

POINTER



„SATS” indicates the number of satellites acquired by the GPS receiver. It has influence on the accuracy of location and elevation.

SATS

**8**

„SPEED” field indicates current speed of the user.

SPEED  
**77.0**km/h

„TIME UTC” indicates current UTC time (Coordinated Universal Time) your GPS receiver gets from the satellites.

TIME UTC  
**12:34:56**

„WAYPOINT” field indicates the name of the chosen point..

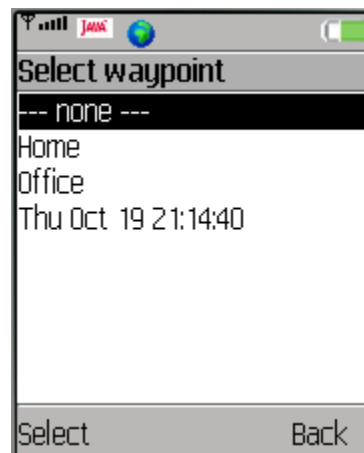
WAYPOINT  
**Home**

The “empty” field does not contain any information.



Waypoint selection menu allows you to choose the point you would like to be presented. If you choose „--- none ---“, waypoint – the fields will be empty. Besides the point name field, pointer, bearing and distance fields will be affected.

The point you choose will be also presented on the Compass screen.



### Show WWW map

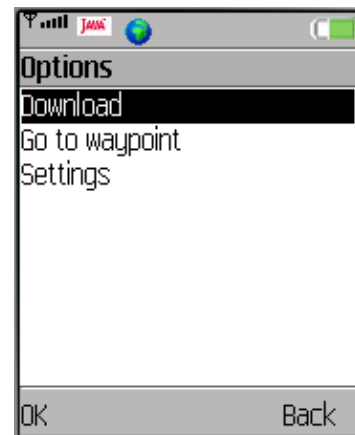
By choosing this option you can download public raster maps from Web showing your current location.



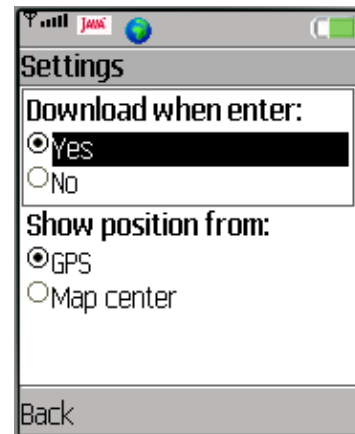
You can zoom the raster map out and in.



Besides the current location, you can download a map centered according to a waypoint's location.



Raster map download can be customized.



## “Compass”

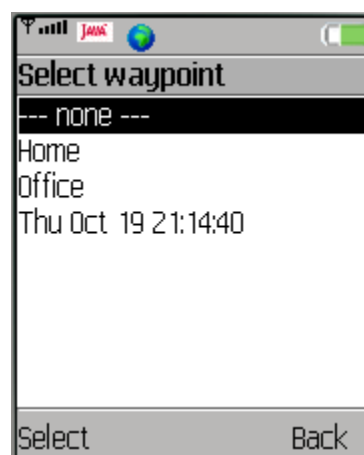
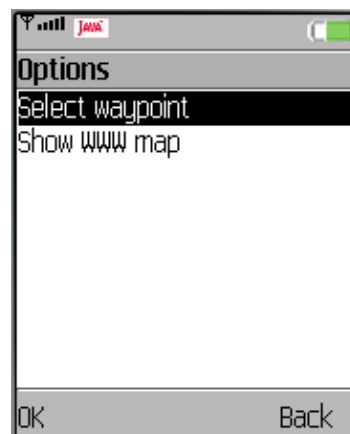
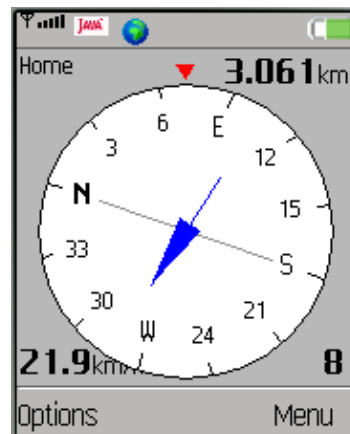
Compass indicates the direction user is moving into (red triangle), name and distance to the selected waypoint (upper left and right corner), bearing (the blue arrow), speed and number of satellites acquired. You have to select a waypoint (see Options) to make the arrow appear.

You may choose the point by entering “option” menu and indicating the point from the list.

Compass Options menu: waypoint selection, download of raster maps

You may choose a point that will be presented on a compass. If you choose “--- none ---” – no point will be indicated.

The point you choose will be also presented on the GPS Information screen.



Compass screen

Name of point

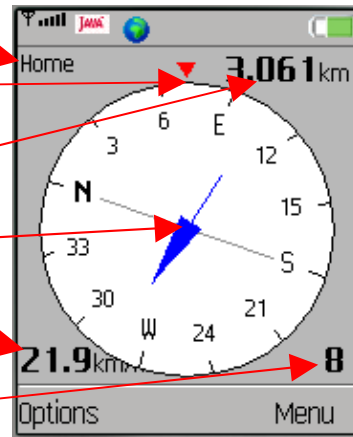
Azimuth/heading of the user/terminal

Distance to the point

Azimuth to the point

Speed

Sats



The night mode.



## “Map”

Map of hundreds of European cities and villages presents current location, track record and scale of the map. It displays user defined waypoints.

User may also store current track and open it whenever there is a need.

The following key shortcuts are in use (you may also use the manipulator key if the terminal has one):

- “2”: up
- “4”: left
- “6”: right
- “8”: down
- “1”: zoom out
- “3”: zoom in
- “7”: center at your current location
- “9”: full screen mode (on/off)
- “0”: pointing mode (on/off)

The “star” indicates current location.

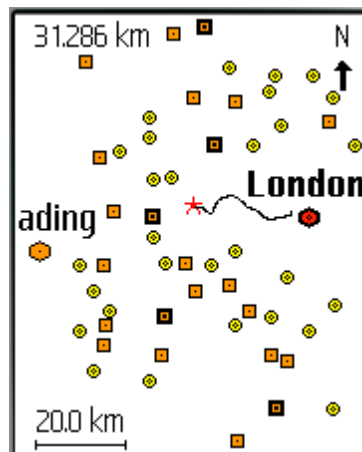
Left/upper corner of the screen shows length of the track (current or opened).

“North pole” indicator is static. Currently, “head-up” and “course-up” modes are not available.

User defined waypoints are displayed if there are any.

The map is following your movement. The application is refreshing the screen while the user is moving. The user location is displayed in the center of a screen.

If you used the navigation keys (2,4,6,8) in the meantime – you may get back to your current location by pressing “7”.



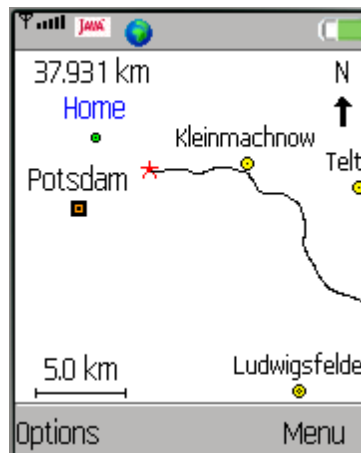
When you run GPS/J application next time the map shows your last position. It will be refreshed when the application gets fresh data from the GPS receiver.

The track/map is being redrawn each 2 seconds. The snapshot of current position is stored each 10 seconds.

If you open saved track from the application store – current track is not presented but is being recorded.

While zooming out, the set of displayed POIs is changing to fit into the screen. They may not be shown at certain level of zoom.

The night mode.



By pressing “0” (zero) you activate pointing mode. Move the pointer with navigation keys to the desired reference point and press “5”. While shifting the cursor, bearing to that point and distance from the current location are displayed.



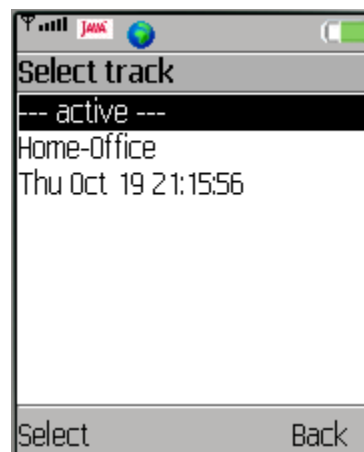
Options menu provides the following functionality:

- „Add waypoint” saves current location. Current date is used as a temporary name. You may change it.
- “Go to waypoint” lets you select the active point and navigate towards it.
- „Save track” saves current track. Current date is used as a temporary name. You may change it.
- „Select track” gives you ability to show stored track on the current map.
- „Clear active track” clears currently recorded track.
- “Manage maps” lets you download and manage POI databases.
- “Show WWW map” downloads raster maps from Web



„Select track” gives you ability to show stored track on the current map.

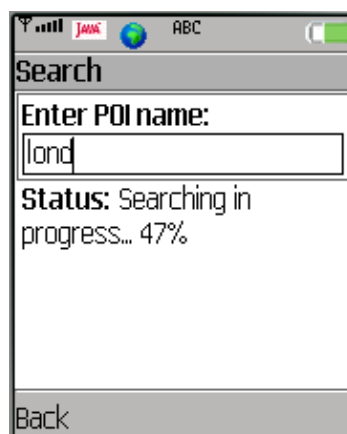
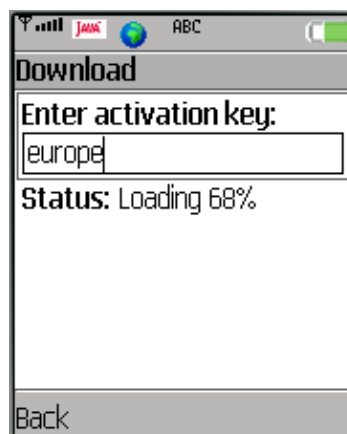
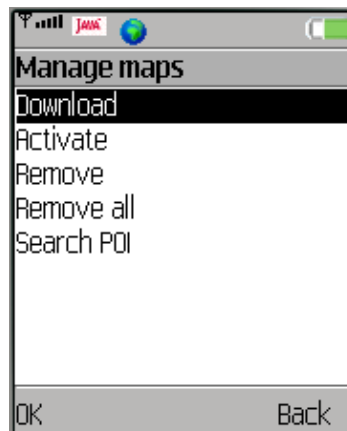
If you select „--- active ---” current track will be displayed.



„Manage maps” lets you manage POI databases – download them from GPS/J repository, activate and remove from handset's memory. You can also search through the database.

To download a map, you have to submit an activation key. Visit [www.gpsj.eu](http://www.gpsj.eu) to get it!

In 'Search POI' you can select a POI you want to go to. Submit its name and ...



... choose the goal of your trip!



Show WWW map

By choosing this option you can download public raster maps from Web showing your current location.



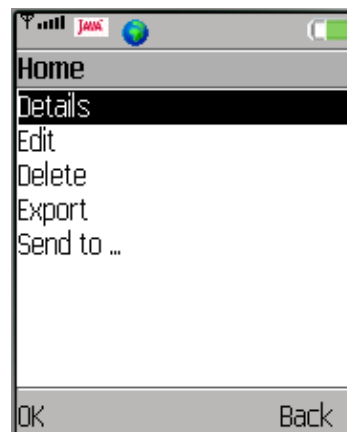
## „Waypoints”

„Waypoints” menu contains waypoint management functionalities. After entering the menu you see the list of waypoints if any was stored and some options after “---” separator.

“Add new” option might be used for adding Point-of-Interest not related to your current or past location but related to a specific place (ATM, gas station etc).

The following options are available after selecting a waypoint:

- “Details” – waypoints details
- “Edit” – point attributes' change
- “Delete” - removing from storage
- “Export” - export to the filesystem (JSR-75 required) or to the Portal (the only option available for GPS/J Lite)
- “Send to” - sending waypoint to a portal account



„Details” menu presents attributes of a waypoint:

- name
- description
- latitude
- longitude
- altitude
- creation timestamp
- show or not-show the point on the map

The location is presented in three popular formats:

- D/M/S.ss
- D/M.mmm (decimal minutes)
- D.dddd (decimal degrees)

Waypoint edition screen lets you change waypoint attributes.

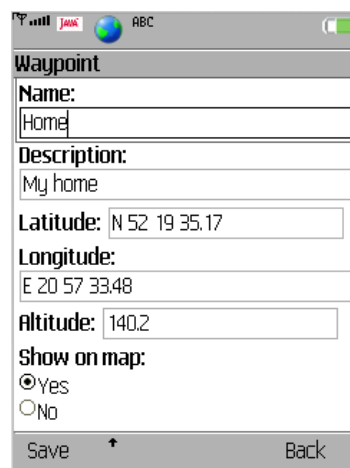
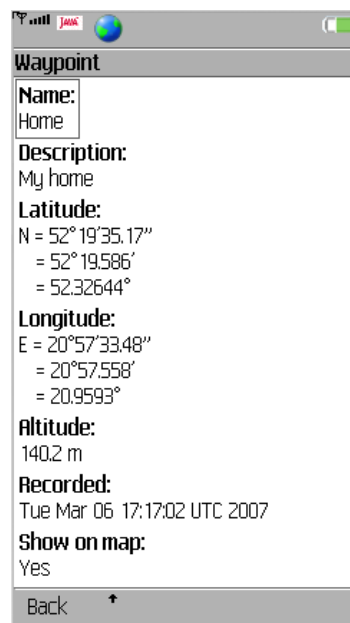
„New waypoint” screen has the same layout with empty entry fields.

Please follow the rules mentioned below while editing the parameters:

1. Character usage limitations: Do not use space at the end of latitude/longitude field
2. Degrees, minutes and seconds should be separated with ONE “space” character and “.” for decimal part.
3. The following examples are correct:
 

S 52 16 43.5	N 51 20.5
-52.27875	51.34166667
-52 16.725	51 20.5
-52 16 43.5	51 20.5 0
	n 51 20.5 0

If you use the format that is not allowed you will see an error message. You will be allowed to try again.



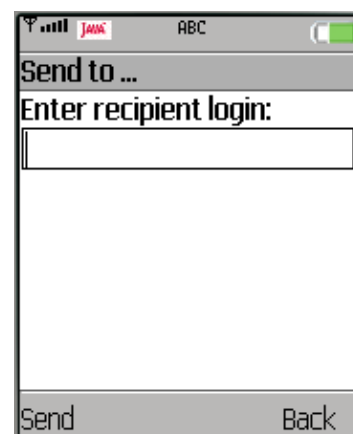
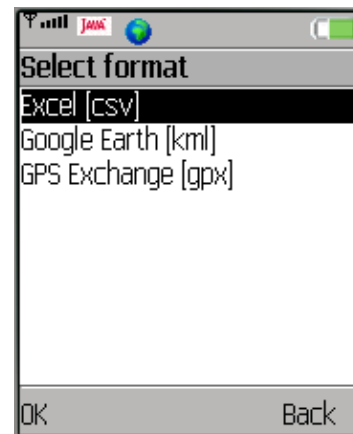
“Export”: waypoints can be exported to handset's file system (on JSR-75 capable devices only) or Portal, where you can manage your tracks.

On non-JSR-75 devices you can only use Portal to export waypoints and tracks. GPS/J sends them to GPS/J main server via GPRS/UMTS. Visit [www.gpsj.eu](http://www.gpsj.eu) to register, submit the credentials and manage your waypoints. Portal's account is created when you first export your tracks or during registration.

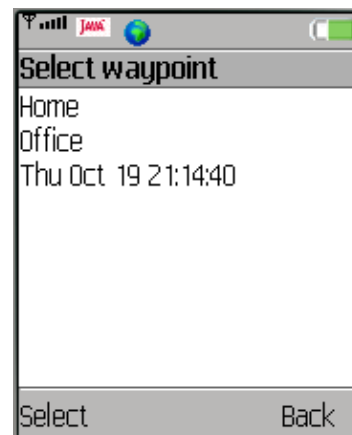
Three popular formats are available for export and import – CSV, KML and GPX (JSR-75 required).

By choosing “Sent to ..” you can send a waypoint to a portal user. The waypoint is stored on the GPS/J server and can be accessed by the recipient in the “Import” section. You have to submit receiver's login, which has to be set up first. The recipient can do so by:

- navigating to the “Setup/Portal profile” screen,
- registering via GPS/J web site.



After having chosen “Import”, you are prompted to choose whether to look for waypoints in the local filesystem or in the Portal. On devices with no JSR-75, application tries to immediately connect with the Portal. The list of stored waypoints is displayed.

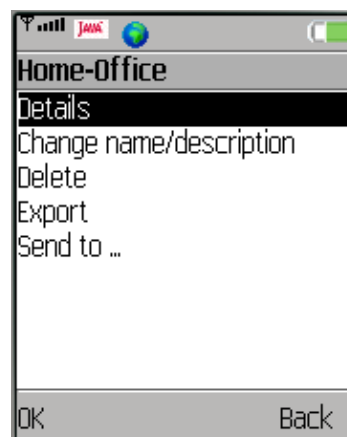


## „Tracks”

„Tracks” menu gives access to track management. After having entered the menu you can see the list of tracks if stored and main options. Most of its functionality is equivalent to that from the Waypoints menu.

The following options are available after selecting a track:

- “Details” – track's details
- “Change name/description” – renaming track
- “Delete” - removing it from storage
- “Export” - export to handset's filesystem or Portal
- “Send to” - sharing the track with other Portal's user.

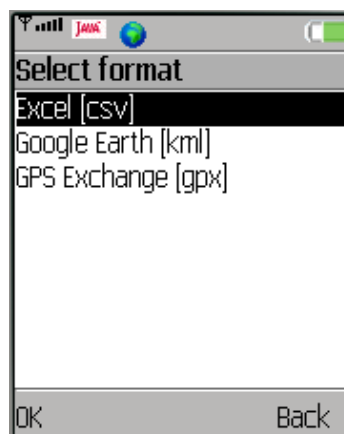
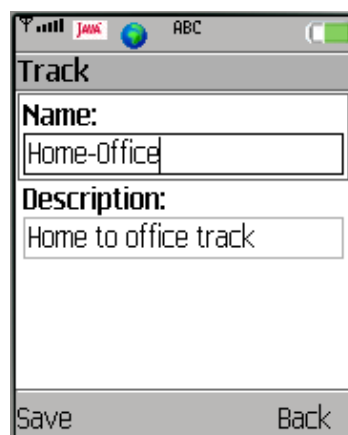
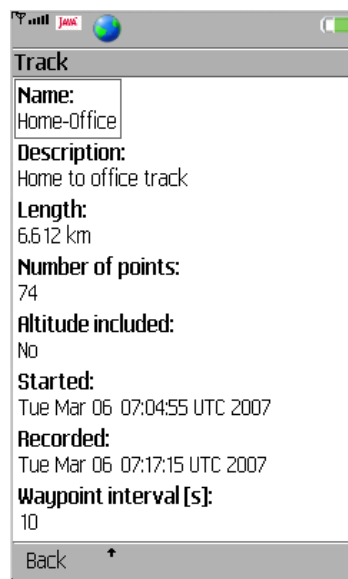


In „Details” you can see the following attributes:

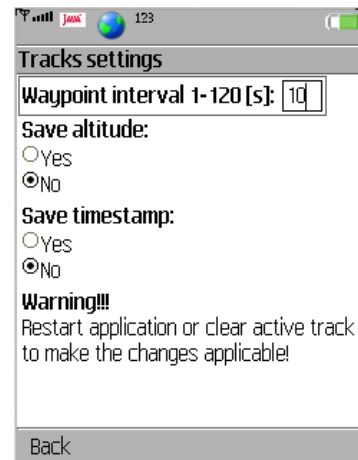
- name
- description
- approximate length
- number of points
- whether the altitude was stored
- whether the waypoints’ timestamps were stored
- timestamp of the first waypoint
- when was it recorded
- time interval between waypoints (in seconds)

Track added in the “Map” menu by default is named with the timestamp. You can change its name and description later on in the “Tracks” menu choosing “Change name”.

Like the waypoints, tracks can be exported and imported using three widely used formats.



To reduce the storage usage tracks do not contain information about the altitude and timestamp. Waypoints are stored with the default 10 second interval.



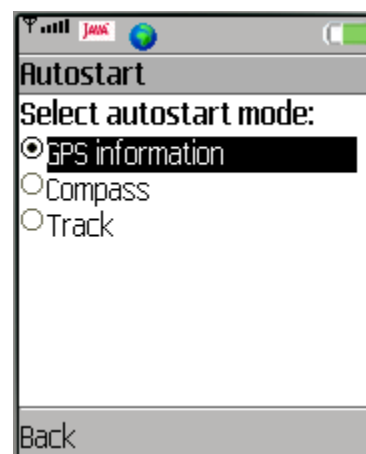
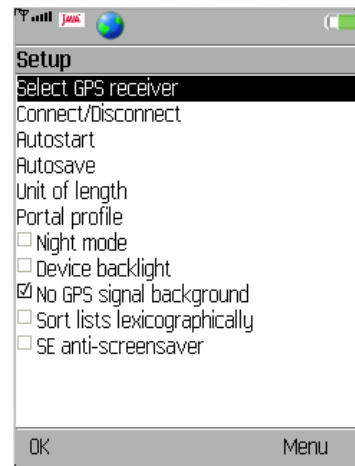
## “Setup”

Setup menu provides the following functionality:

- “Selecting GPS receiver”: should be used if a GPS receiver has not been chosen during running the application for the first time or if a user switches to another GPS receiver.
- “Disconnecting and reconnecting” the GPS receiver
- Indicating the desired screen for the “start of application”
- “Auto-saving” tracks can be switched on
- Kilometre or statute mile can be used as a default “unit of length”
- “Portal account” credentials can be retrieved and set.
- “Night mode” switching on/off
- “Backlight” maintenance
- “Background” selection: you may not allow application to change the background color to red if it loses GPS signal
- “Sort lists lexicographically”, the default order is by timestamp
- “SE anti-screensaver”, a workaround for problem with SonyEricsson’s handsets losing bluetooth connection.

All settings are stored and are used when you run the application next time.

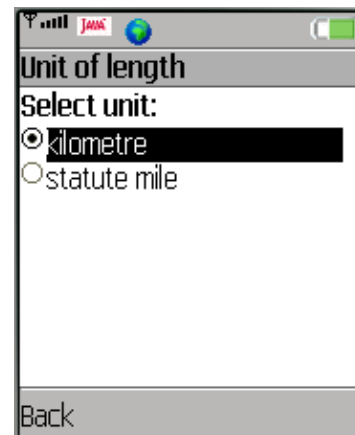
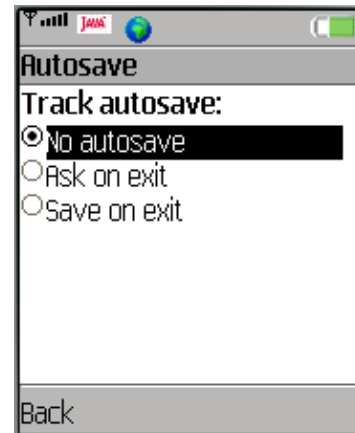
User may choose the most frequently used screen to be used by default.



The applications's behaviour on exit can be set up.

Choose the unit of length to be used while displaying distances and speed.

Release 2.7 introduces the Portal, a GPS/J web based assistant. Portal's profile for you is created each time you exports e.g. a track. You can also register online – visit [www.gpsj.eu](http://www.gpsj.eu). There is no need to supply login and password to store tracks on the server side, but you won't be able to receive tracks from other users. Moreover, the Portal lets you export and import object in different formats.



## Portal

### **Goals**

GPS/J version 2.7 introduces a Web application for waypoint&track management – the Portal. There were 6 main goals for setting it up:

- track export and import for devices that are not JSR-75 capable (eg. Nokia Series 40),
- bringing ease-of-use to all GPS/J users wanting to use collected data outside the application,
- sharing waypoints and tracks with other GPS/J users and ...
- with the whole world - “public tracks”
- data backup&recovery,
- on-line location log (resheduled for release 2.8).

You can access the Portal by visiting [www.gpsj.eu](http://www.gpsj.eu).

## Features

### Registering

→ go back

**User profile**  
(all fields are required)

S/N :  (see section "About GPS/J" in the application)

Login :

Password :

Retype password :

### Logging in

Login :  if forgotten, you can request credentials in the application



Password :  → Setup/Portal account

→ register

### Main menu



In the main menu you have access to all objects stored by the mobile application. You can also grant access for other GPS/J users.

User: Ted

-  Waypoints
-  Tracks
-  Traces
-  Watches
-  Upload waypoints/tracks
-  Modify profile

→ go back

**Waypoints**

Name	Stored	
Big stone	2007-08-11 17:55:44.0	 

the receiver has to have the **login** set. It can be done in the application, see Setup->Portal account

→ black list

### Waypoint list

### Waypoint details

Waypoint

Name	: Home	<input type="button" value="Modify"/>
Description	:	
Latitude	: 52.135326	<input type="button" value="MAPQUEST"/>
Longitude	: 21.060246	
Altitude	: 116.6	
Recorded	: -	
Show on map	: true	

→ export to CSV  
 → export to KML  
 → export to GPX  
 → go back

### Track list

On this screen you can save a track on your PC, delete or send it to other GPS/J users. By clicking on the list you can see the details.

Tracks

Name	Stored	
Home->Office	2007-08-16 07:24:59.0	<input type="button" value="Download"/> <input type="button" value="Public"/>

Send to:

the receiver has to have the login set. It can be done in the application, see Setup->Portal account

→ black list

### Track details

Here you can change the name of the track, as well as make it public or export (download) to a local storage.

Track

Name	: Kampinos, zolty szlak, Leszno->Tr	<input type="button" value="Modify"/>
Description	:	
Length	: 19.568863	
Number of points	: 172	
Altitude included?	: false	
Timestamp included?	: false	
Started	: 14 Sep 2008 11:45:45 GMT	
Recorded	: 14 Sep 2008 13:11:33 GMT	
Waypoint interval[s]	: 30	
Size	: 1447 bytes	

→ show points  
 → **make public**  
 → export to CSV  
 → export to KML  
 → export to GPX

### Track's waypoints

You can not only see the track's waypoints, but also distance between them, speed and heading.

Track: Home->Office

Longitude	Latitude	Distance (km)	Speed (km/h)	Heading (°)	Heading	
20.592701	52.26041					
20.59282	52.260376	0.008	1.06	115°	SE	MAPBEST
20.592789	52.260376	0.002	0.24	270°	W	MAPBEST
20.592924	52.260338	0.010	1.21	114°	SE	MAPBEST
20.592924	52.260338	0.0	0.0	180°	S	MAPBEST
20.593569	52.26055	0.049	5.97	62°	NE	MAPBEST
20.595314	52.261208	0.139	16.7	60°	NE	MAPBEST
20.596998	52.262047	0.147	17.7	51°	NE	MAPBEST
20.59839	52.263157	0.155	18.6	38°	NE	MAPBEST
20.599564	52.264256	0.145	17.4	34°	NE	MAPBEST

### Making a track public

Having an object stored you can make it linkable or publicly available.

**track made public.**  
 It can be linked with:  
 CSV: <http://jsp.gpsj.eu/app/dashboard/showtrk.jsp?id=365&exp=csv>  
 KML: <http://jsp.gpsj.eu/app/dashboard/showtrk.jsp?id=365&exp=kml>  
 GPX: <http://jsp.gpsj.eu/app/dashboard/showtrk.jsp?id=365&exp=gpx>

If you want to publish the track on GPS/J website please give some more detail about it:

Name:

Country:

Activity:


→ make private

### Traces

A trace is made up of waypoints reported on-line by GPS/J. The advantage over tracks is that waypoints are immediately available on the GPS/J website. The current position of a GPS/J user is thus available. A trace can be converted into a track.

Traces

Started

2008-05-04 11:49:19 

- Grant a watch
- Revoke watch

No watched user!

I am watched by:

Name
LeszekE28

### Watches

Traces can be visible to other GPS/J users. You have to grant someone a watch to make it visible.

### Waypoint & track upload

Waypoint upload

accepted formats: CSV, GPX, KML, WPT (binary)

File:

Track upload

accepted formats: CSV, GPX, KML, TRK (binary)

File:

Profile modification

→ go back

User profile

S/N :  (first 5 characters required)

Login :

Current password :

New password :  (min. 6 characters)

Retype new password :

## Appendix A - Troubleshooting guide

### Most frequently appearing problems

You will see red background also called “lost signal background” by many occasions. The main reason is lack of location data from the GPS receiver. You may face it when the terminal loses connection to the GPS receiver or GPS receiver sees insufficient number of satellites.

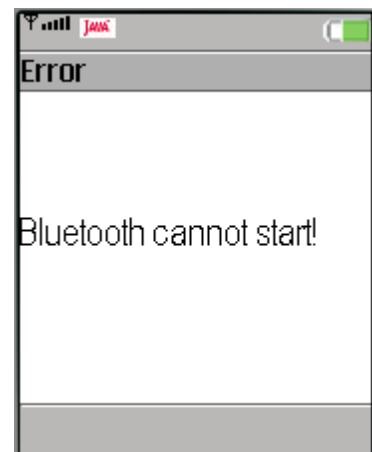
Wait until GPS receiver acquires more satellites or try to reconnect to the GPS receiver from Settings menu.

You will see the message if you have not allowed the application to use Bluetooth stack.

Please check in the settings of your terminal if Bluetooth interface is running and if Java applications are allowed to use it.  
You may accept bluetooth usage next time you run GPS/J.

You will see the message if you did not allow to connect the application with the GPS receiver if the receiver is switched off.

Switch your GPS receiver on and accept the connection if you would like to use the GPS/J application.



### Notes:



- Motorola v360 might hang up the GPSJ application during connecting with GPS receiver and asking for PIN for the first time. After having experienced such case please switch off and on your phone. Running application for the second time should be successful.
- Siemens CX75 when stopping the application and running again might connect you to the GPS receiver but no GPS data is passed to GPSJ application. In this case reset of the phone should help.
- Nokia 6230i with GPSJ application is not showing the name of the GPS receiver while trying to connect to it for the first time. Instead it presents a numeric ID of your GPS receiver.
- SonyEricsson K600i gives you ability to work with GPSJ in the background
- closing the front panel on Motorola v360 breaks BlueTooth connection; after that the GPSJ application goes into offline mode.

***-incoming calls are not influencing functioning of GPSJ application***

**In other cases – consult the on-line FAQ: [www.gpsj.eu/faq/odfaq](http://www.gpsj.eu/faq/odfaq)**

## Appendix B - Specifications

GPS/J has been developed in compliance with the following standards:

- **Java Micro Edition**

“Java Platform, Micro Edition (Java ME) provides a robust, flexible environment for applications running on mobile and other embedded devices—mobile phones, personal digital assistants (PDAs), TV set-top boxes, and printers. It is a collection of technologies and specifications to create a platform that fits the requirements for mobile devices. It is a collection of technologies and specifications that can be combined to create a complete Java runtime environment specifically to fit the requirements of a particular device or market. Java ME includes flexible user interfaces, robust security, built-in network protocols, and support for networked and offline applications that can be downloaded dynamically. Applications based on Java ME are portable across many devices, yet leverage each device's native capabilities.”

Source: <http://java.sun.com/javame>

- **MIDP 2.0 – Java Specification Request (JSR) 118**

“The Mobile Information Device Profile (MIDP) is a key element of the Java 2 Platform, Mobile Edition (J2ME). When combined with the Connected Limited Device Configuration (CLDC), MIDP provides a standard Java runtime environment for today's most popular mobile information devices, such as cell phones and mainstream personal digital assistants (PDAs). The MIDP specification was defined through the [Java Community Process](#) (JCP) by an expert group of more than 50 companies, including leading device manufacturers, wireless carriers, and vendors of mobile software. It defines a platform for dynamically and securely deploying optimized, graphical, networked applications.

MIDP and CLDC provide the core application functionality required by mobile applications, in the form of a standardized Java runtime environment and a rich set of Java APIs. Developers using MIDP can write applications once, then deploy them quickly to a wide variety of mobile information devices. MIDP has been widely adopted as the platform of choice for mobile applications. It is deployed globally on millions of phones and PDAs, and is supported by leading integrated development environments (IDEs). Companies around the world have already taken advantage of MIDP to write a broad range of consumer and enterprise mobile applications.”

Source: <http://java.sun.com/products/midp/overview.html>

- **Connected Limited Device Configuration (CLDC) 1.1 – JSR 139**

“The Connected Limited Device Configuration (CLDC) is a fundamental part of the architecture of the Java 2 Platform, Micro Edition (J2ME). J2ME technology is delivered in API bundles called *configurations*, *profiles*, and *optional packages*. A J2ME application environment includes both a configuration like CLDC and a profile like the Mobile Information Device Profile (MIDP). In addition, optional packages provide capability in specific areas of functionality, such as wireless messaging and multimedia capture and playback. The ability to choose from among the various bundles enables product designers and developers to match software capabilities with hardware capabilities very closely. They can use APIs that give them easy access to the components a particular kind of device actually has, without the overhead of APIs designed for capabilities the device doesn't support.

A *configuration* provides the most basic set of libraries and virtual-machine features that must be present in each implementation of a J2ME environment. When coupled with one or more profiles, the Connected Limited Device Configuration gives developers a solid Java platform for creating applications for consumer and embedded devices.”

Source: <http://java.sun.com/products/cldc/overview.html>



- **PDA Optional Packages for the J2ME™ Platform – JSR 75**

“This JSR produces two separate optional packages for features commonly found on PDAs and other J2ME mobile devices: one for accessing PIM data and one for accessing file systems.”

Source: <http://jcp.org/en/jsr/detail?id=75>

- **Java™ APIs for Bluetooth – JSR 82**

“Bluetooth is an important emerging standard for wireless integration of small devices. The specification standardizes a set of Java APIs to allow Java-enabled devices to integrate into a Bluetooth environment.”

Source: <http://jcp.org/en/jsr/detail?id=82>

- **NMEA 0183**

“**NMEA 0183** (or **NMEA** for short) is a combined electrical and data specification for communication between marine electronic devices such as [echo sounder](#), sonars, [Anemometer](#) (winds speed and direction), [gyrocompass](#), [autopilot](#), [GPS](#) receivers and many other types of instruments. It has been defined by, and is controlled by, the US-based [National Marine Electronics Association](#).”

Source: [http://en.wikipedia.org/wiki/NMEA\\_0183](http://en.wikipedia.org/wiki/NMEA_0183)

See also: <http://www.nmea.org/pub/0183/>



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## Notes



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