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The Global Positioning System (GPS) is operated by the government of the United States, which is solely responsible for its accuracy and maintenance. The accuracy of location data can be affected by adjustments to GPS satellites made by the United States government and is subject to change with the United States Department of Defense civil GPS policy and the Federal Radionavigation Plan. Accuracy can also be affected by poor satellite geometry. Availability and quality of GPS signals may be affected by your location, buildings, natural obstacles, and weather conditions. The GPS receiver should only be used outdoors to allow reception of GPS signals.

Any GPS should not be used for precise location measurement, and you should never rely solely on location data from the GPS receiver and cellular radio networks for positioning or navigation.

The trip meter has limited accuracy, and rounding errors may occur. Accuracy can also be affected by availability and quality of GPS signals.

Assisted GPS (A-GPS) is used to retrieve assistance data over a packet data connection, which assists in calculating your current location when your device is receiving signals from satellites.

A-GPS is a network service.

About Maps

Select Maps.

With Maps, you can see your current location on the map, browse maps of different cities and countries, search for places, plan routes from one location to another, save locations, and send them to compatible devices. You can also purchase licences for traffic information and navigation services, if available for your country or region.

When you use Maps for the first time, you may need to select an internet access point for downloading maps.

If you browse to an area which is not covered by maps already downloaded in your device, a map for the area is automatically downloaded through the internet. Some maps may be available in your device or on a memory card. You can also use the Nokia Map Loader PC software to download maps. To install Nokia Map Loader to a compatible PC, visit www.nokia.com/maps.

Tip: To avoid data transfer costs, you can also use Maps without an internet connection, and browse the maps that are saved in your device or memory card.

Note: Downloading maps may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

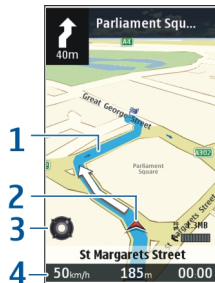
Almost all digital cartography is inaccurate and incomplete to some extent. Never rely solely on the cartography that you download for use in this device.

Map elements



Browse maps

- 1 Main street
- 2 Secondary street
- 3 Selected location
- 4 Point of interest (for example, a railway station or a museum)



Navigate


- 1 Route
- 2 Your location and direction
- 3 Compass
- 4 Information bar (speed, distance, time)

Browse maps

The map coverage varies by country and region.

Move on a map

Select **Maps**.

When the GPS connection is active,  shows your current location on the map.

View your current or last known location

Select .

Move on the map

Drag the map. By default, the map is oriented north.

When you have an active data connection and browse the map on the display, a new map is automatically downloaded, if you browse to an area not covered by the maps that have already been downloaded. The maps are automatically saved in the device memory or on a compatible memory card, if available in your device.

Zoom in and out on the map

Select + and -.

Change the map type

Select **Options** > **Map mode**.

Location tracking

When your speed exceeds 10 kph (6 mph) and stays above the limit for three seconds, the map starts to follow your location and aligns to your travel direction. During tracking, the speed limit and speed camera warning services are active.


Select **Maps**.

Align the map back to north

Select **Options** > **Tools** > **Align map north**.

Display indicators

Select **Maps**.

The GPS indicator  shows the availability of the satellite signals. One bar is one satellite. When the device tries to find satellite signals, the bar is yellow. When the device receives enough data from the satellites for GPS to calculate your location, the bar turns green. The more green bars, the more reliable the location calculation.

Initially, your device must receive signals from at least four satellites to calculate your location. After the initial calculation, signals from three satellites may be enough.

The data transfer indicator  shows the internet connection used, and the amount of data transferred since the application started.

Find places

Need directions? Looking for a restaurant? Maps helps you get there.

Find locations

You can search for specific addresses, points of interest, and other locations, such as hotels and restaurants.


Select **Maps**.

Find an address

1 Select  > **Address**.

- 2 Start entering the required information. The fields marked with an asterisk (*) are mandatory.
- 3 Select **Options** > **Search**.
- 4 Select the address from the list of proposed matches.

Find a place

- 1 Select  > **Places**.
- 2 Select from specific categories, or enter the search terms and select **Search**.
- 3 Select the place from the list of proposed matches.

Plan routes

You can create routes and view them on the map.

Select **Maps**.

Create a route

- 1 Tap your starting point on the map. To add the destination and more locations to the route, select **Add new route point**. If you want to use your current position as the starting point, add the destination to the route.
- 2 Tap the information area above the map, and select **Add to route**.
- 3 Select **Add new route point**, and add the destination and more locations to the route.

Change the order of the locations in the route

Tap a location, and select **Move**. Tap the place where you want to move the location, and select **Select**.

Show the route on the map

Select **Show route**.

Navigate to the destination

Select **Show route** > **Options** > **Start driving** or **Start walking**. To be able to navigate, you need to purchase a licence.

Save the route

Select **Show route** > **Options** > **Save route**.

Save and send locations

You can save your favourite locations to your device and send them to compatible devices.

Select **Maps**.

Save a location to your device

Tap the location, tap the information area above the map, and select **Save**.

View your saved locations

In the main view, select **Options** > **Favourites**.

Send a location to a compatible device

Tap the location, and select **Send**.

View your saved items

You can sort the locations and routes you have saved to your device, and view them on the map. You can also

create collections of your favourite places, such as restaurants and museums.

Select **Maps**.

View the saved locations and routes

Select **Options** > **Favourites**.

Sort the saved locations

Select **Places** > **Options** > **Sort**.

View the location on the map

Tap the location, and select **Show on map**.

Add the location to a route

Tap the location, and select **Add to route**.

Create a collection

Select **Options** > **New collection**.

Synchronise your favourite locations with Ovi Maps

The Ovi website contains the internet services that Nokia provides. The Ovi Maps section contains services related to Maps. You can synchronise your saved locations, collections, and routes with Ovi Maps, if you have a Nokia account in Ovi. To create the account, visit www.ovi.com.

Select **Maps**.

Synchronise saved items with Ovi Maps

Select **Options** > **Favourites** > **Synchronise with Ovi**.

Set the device to synchronise items automatically

Select **Options** > **Tools** > **Settings** > **Synchronisation** > **Synchronise with Ovi** > **At start-up and shut-d..** The device starts the synchronisation when you open and close the Maps application.

Synchronising may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Your search history

In the history view, you can quickly return to the locations you have recently searched for.

Select **Maps**.

View your search history

Select **Options** > **History**.

View the selected location on the map

Tap the location, and select **Show on map**.

Send the location to a compatible device

Tap the location, and select **Send**.

Add the location to a route

Tap the location, and select **Add to route**.

Services for Maps

Traffic and guide information and related services are generated by third parties independent of Nokia. The information may be inaccurate and incomplete to some extent and is subject to availability. Never rely solely on the aforementioned information and related services.

Note: Downloading maps may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

You may have a navigation licence pre-installed in your device.

The availability of the services depend on your location and network operator.

About licences

There are additional services available for Maps. To use a service, you need to buy a licence. Most services are region-specific.

When you buy a licence, some landmarks are shown in 3D on the map.

Select **Maps**.

Purchase a service for your current location

Select **Options > Shop & licences > Shop**.

When you purchase a service, you have two options:

- Purchase a licence with a fixed end date.
- Subscribe to a licence that is automatically renewed every 30 days until you cancel it. To cancel the licence, select **Options > Shop & licences > My licences**, go to the licence, and select **Options > Cancel subscription**.

You can pay for the service through a credit card or in your phone bill, if supported by your service provider. During the purchase, you can select to save your credit card number and expiry date to your device. To remove the credit card information from your device, select **Options > Clear personal data**.

Some devices may have a City Explorer licence preinstalled.

View your valid licences

Select **Options > Shop & licences > My licences**.

View the services available in other regions

Select **Options > Shop & licences > Options > Shops for other regions**.

Walk to your destination

When you purchase a licence for pedestrian navigation, you can create routes that include pedestrian zones and parks, prioritise walkways and smaller roads, and omit motorways.

With the licence, you also get the enhanced search service to your device, if available for your country or region. The enhanced search service enables you to find local events and travelling-related information when you perform searches.

Select **Maps**.

Purchase a licence for pedestrian navigation

Select **Options** > **Shop & licences** > **Options** > **Shops for other regions** > **All regions** > **City explorer**. You can pay for the licence through a credit card or in your phone bill, if supported by your service provider.

Start navigating

Tap a location, tap the information area above the map, and select **Walk to**.

The distance between the start and end points of a walking route is limited to a maximum of 50 kilometres (31 miles) and the travelling speed to a maximum of 30 kph (18 mph). If the speed limit is exceeded, navigation stops and is resumed once the speed is back within limits.

If the destination is on off-road terrain, the route is displayed as a straight line to indicate the walking direction.

There is no voice guidance available for pedestrian navigation, but the device guides you with a tone or vibration approximately 20 metres (22 yards) before you need to turn or make another manoeuvre. The guiding

method depends on the settings of the profile currently active in your device.

See an overview of the route

Select **Options** > **Route overview**.

Stop navigating

Select **Stop**.

Drive to your destination

You can purchase a licence for navigating on foot or by car. The licence is region-specific and can be used only in the selected area.

To help navigating and driving, you also have lane assistance and speed limit warning services in your device, if available for your country or region.

Select **Maps**.

Purchase a licence

Select **Options** > **Shop & licences** > **Shop**, and select the drive navigation option for your region.

Start navigating by car

Select a location, tap the information area above the map, and select **Drive to**.

When you use car navigation for the first time, you are asked to select the language of the voice guidance and download the related voice guidance files.

Note: Downloading maps may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

To switch between different views during the navigation, tap the information area above the map, and select **2D view**, **3D view**, **Arrow view**, or **Route overview**.

Find an alternative route

Select **Options** > **Diff. route**.

Repeat the voice guidance

Select **Options** > **Repeat**.

Adjust the volume of the voice guidance

Select **Options** > **Volume**.

View the trip distance and duration

Select **Options** > **Dashboard**.

Stop navigating

Select **Stop**.

Your first consideration while using Maps should be road safety. The service should not be used by the driver of a motor vehicle while driving.

Location details

A location may include details, such as a 24-hour weather forecast.

Select Maps.

View the details of a location

Tap the location, tap the information area above the map, and select **Show details**.

See a more detailed weather forecast

Select **Options** > **Full weather details**. You need to have a valid navigation licence and the service must be available for the location.

Traffic and safety

The real-time traffic information service provides information about traffic events that may affect your travel. You can purchase and download the traffic information service to your device, if available in your country or region.

When you purchase the licence, the location of speed cameras is shown on your route during navigation and tracking, if this feature is enabled and available for your country or region. Some jurisdictions prohibit or regulate the use of speed camera location data. Nokia is not responsible for the accuracy, or the consequences of use of speed camera location data. You also get the notification service for speed cameras, if available for your country or region.

Note: Downloading maps may involve the transmission of large amounts of data through your service provider's network. Contact your service provider for information about data transmission charges.

Traffic and guide information and related services are generated by third parties independent of Nokia. The information may be inaccurate and incomplete to some extent and is subject to availability. Never rely solely on the aforementioned information and related services.

Select **Maps**.

Purchase a licence for the traffic information service

Select **Options > Shop & licences > Shop**, and select the traffic information service for your region.

View information about traffic events

Select **Options > Traffic info**. The events are shown on the map as triangles and lines.

View the details and possible rerouting options

Select **Options > Open**.

Update the traffic information

Select **Update traffic info**.

Set your device to avoid traffic events

In the main view, select **Options > Tools > Settings > Navigation > Reroute due to traffic**.

Settings

Maps settings

Select **Maps**.

Select **Options > Tools > Settings** and from the following:

Internet — Define the internet settings.

Navigation — Define the navigation settings.

Route — Define the routing settings.

Map — Define the map settings.

Synchronisation — Define the settings for synchronising saved items with the Ovi Maps web service.

Internet settings

Select **Maps**.

Select **Options > Tools > Settings > Internet** and from the following:

Go online at start-up — Set the device to open an internet connection when you open Maps.

Default access point or **Network destination** — Select the access point to be used when connecting to the internet.

Roaming warning — Set the device to notify you when registering to a network other than your home network.

Navigation settings

Select **Maps**.

Select **Options > Tools > Settings > Navigation** and from the following:

Voice guidance — Select the language of the voice guidance for car navigation. If you select a language with the text "with street names", also the street names are

said aloud. You may need to download the voice files before you can select the language.

Backlight — Define the backlight setting.

Automatic zoom — Use automatic zooming.

Traffic info update — Update the information about traffic events.

Reroute due to traffic — Plan a new route to avoid traffic events.

Time indicator — Display the travel time or estimated time of arrival.

Speed limit warner — Set the device to notify you when you exceed the speed limit, if speed limit information is available for your route.

Safety spot warner — Set the device to notify you when you approach a speed camera, if such information is available for your route.

Maps improvement — Let Nokia use information from your device to improve the Maps application. The information is collected periodically while you are travelling with typical car speeds, and it is anonymous and encrypted. The information contains your direction, speed, location, satellite time, and accuracy of the positioning. The information is sent only when you use Maps over a fixed or wireless local area network connection. The information is deleted from your device once sent.

The available options may vary.

Route settings

You can select the mode of transportation used when you create routes and what characteristics you want the route to prefer.

Select **Maps**.

Edit the route settings

Select **Options** > **Tools** > **Settings** > **Route**.

Select the mode of transportation

Select **Transport mode** > **Walk** or **Drive**. If you select **Walk**, one-way streets are regarded as normal streets and walkways can be used.

Use the fastest route

Select **Route selection** > **Faster route**. This option is available only if you have selected **Drive** as the mode of transportation.

Use the shortest route

Select **Route selection** > **Shorter route**.

To plan routes that combine the advantages of both the shortest and the fastest route, select **Route selection** > **Optimised**.

You can also choose to allow or avoid using motorways, tunnels, ferries, and toll roads.

Map settings

Select **Maps**.

Select **Options** > **Tools** > **Settings** > **Map** and from the following:

Categories — Select what type of points of interest you want to see on the map.

Colours — Optimise the colour scheme for day or night usage.

Memory to be used — Select where the map files are saved in your device.

Maximum memory use — Select how much memory can be used to store maps. When the memory limit is reached, the oldest maps are removed.

System of measurement — Select the metric or imperial system.

Synchronisation settings

Define how you want your device to synchronise with Ovi Maps. If you do not have an account in Ovi, create one at www.ovi.com.

Select **Maps**.

Define the synchronisation settings

Select **Options** > **Tools** > **Settings** > **Synchronisation**.

To set the device to synchronise your saved items with your Ovi account automatically when you open and close the Maps application, select **Synchronise with Ovi** > **At start-up and shut-d..**

Synchronise your saved items with Ovi manually

Select **Synchronise with Ovi** > **Manual**. To synchronise the items, in the main view, select **Options** > **Favourites** > **Synchronise with Ovi**.

Define your Ovi account details

Select **Login information**.

Get updates

Nokia Map Loader

With the Nokia Map Loader application, you can download maps and voice guidance files from the internet to the device memory or a compatible memory card. You must use the Maps application and browse maps at least once before using Nokia Map Loader, as Nokia Map Loader uses the Maps information to check which version of the maps to download.

To install Nokia Map Loader to a compatible PC or Mac, visit www.nokia.com/maps, and follow the instructions.

Download maps with Nokia Map Loader

- 1 Connect your device to the computer with a compatible USB data cable or Bluetooth connection. If you use a data cable, select PC Suite as the USB connection method for PCs, and Nokia mode for Macs.
- 2 Start Nokia Map Loader on the computer.

- 3 Select a continent and a country. Small countries may be chosen in their entirety; others have several sub-maps from which to choose.
- 4 Select the maps or extra services, and download and install them to your device.

For further information on licence coverage, see www.nokia.com/maps.

Update the Maps application

If your device has an older version of Maps, use Nokia Maps Updater to install the latest version of Maps to your device. Nokia Maps Updater also updates the maps and other services in your device, if needed. Download Nokia Maps Updater to your compatible computer from www.nokia.com/maps. To use Nokia Maps Updater, you need to have Nokia PC Suite installed on your computer.

- 1 Connect your device to the computer.
- 2 Open Nokia Maps Updater.
- 3 Select your language from the list.
- 4 If more than one device is connected to the computer, select your device from the list.
- 5 When Nokia Maps Updater has found updates, download them to your device.
- 6 Accept the download in your device when prompted on the device display. If prompted, close the running applications.

When you upgrade an older version of Maps to Maps 3.0, your licences for the services are automatically converted to new ones. The coverage of the car or pedestrian navigation licence may change, but it still covers the area of your old licence. The licence period remains unchanged.

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