SENSUS NAVIGATION

Sensus Navigation is a satellite-based traffic information and guidance system.

Volvo works continuously to improve our product. Modifications can mean that information, descriptions and illustrations in this supplement differ from the equipment in your vehicle. We reserve the right to make changes without prior notice.
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</table>
Activating and deactivating map navigation*

The navigation system is automatically activated when the driver's door is opened and is deactivated when the driver locks and arms the vehicle.

Activating navigation

View the map on the center display by tapping the top tile (1) in Home view.

If the center display does not show the tile for navigation - press briefly twice on the home button (2) and then tap on the tile for navigation (1). A map will appear of the surrounding area and the vehicle's current location (blue triangle).

Tap this symbol to display the map across the entire center display.

WARNING

Observe the following:

• Direct all your attention to the road and make sure that your concentration is focused on driving.
• Follow applicable traffic laws and use good judgment while driving.
• Road conditions can be affected by weather or season, which may make certain recommendations less reliable.

Deactivating navigation

While the ignition is switched on, the navigation system is always active in the background. It switches off automatically when the ignition is switched off and the vehicle is locked.

NOTE

The navigation system is available even when the engine is turned off. If the battery charge level becomes too low, the system will switch off.

Related information

• Map navigation* in the center display (p. 6)
• Map navigation* in the instrument panel (p. 8)
• Map navigation* in head-up-display* (p. 9)
• Voice control for navigation* (p. 9)
• Symbols and buttons on the map* (p. 5)
Symbols and buttons on the map*

The map in the center display displays symbols and colors that inform the driver of different roads and the area around the vehicle and along the route. A tool bar with different buttons for different settings is shown on the left.

1. Estimated time of arrival/remaining time to arrival
2. Distance to destination
3. Compass/switches between north and vehicle's direction of travel up
4. Start
5. Destination
6. Switch map view from 2D to 3D
7. Reset map to follow the vehicle
8. Point of Interest (POI)
9. Traffic information
10. Minimize (expanded view) or maximize the map (full screen)
11. The vehicle on the planned route
12. Minimize toolbar
13. Repeat most recent voice guidance
14. Minimize toolbar
15. Calculate a new route
16. Voice guidance temporarily On/Off
17. Display list of guidance points in the itinerary
18. Set a final destination/waypoint
19. Cancel guidance
20. Shows list of the itinerary's points of interest (POI) and traffic information
21. Next maneuver
22. Itinerary and alternative route
23. Destination

Related information
- Information cards on the map* (p. 6)
- Traffic disruptions on map* (p. 18)
- Real Time Traffic Information (RTTI) (p. 20)
- Show traffic disruptions along the route (p. 18)

* Option/accessory.
**Information cards on the map**

All icons on the map, such as destinations, waypoints and favorites, have an information card that can be opened by tapping the icon. A small card appears upon one press, two presses shows a larger card with more information.

Opening the icon’s **Info card** gives the driver up-to-date information for that icon.

The information and possible options vary depending on the type of icon.

For example, when a POI(2) is highlighted, the driver can select e.g.:

- **Start navigation** - save the location as a destination
- **Add as waypoint** - the position is saved as an intermediate destination (only displayed at the specified destination)
- **Save** - the position is saved in the library
- **Remove from itinerary** - the position is removed if it is included in the itinerary
- **Nearby POI** - points of interest close to the car's position are shown

**Related information**

- Itinerary (p. 15)
- Entering a POI as a destination (p. 12)

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**Map navigation** in the center display

Sensus Navigation can be presented and controlled in several ways, e.g. via the center display.

All settings for the navigation system can be changed in the center display. The driver can select how the map should be displayed or enter a destination here.
If the map image is not shown in the center display - tap on the home view's top tile for navigation.

**Where am I?**
What is the vehicle's current geographic location?

- Tap the vehicle symbol (blue triangle) on the map to display information directly on the map.

**Find the vehicle symbol on the map**
After zooming out/in or moving the map, it may be difficult to find the vehicle's location on the map again. Tap the crosshairs to reset the map to follow the vehicle symbol.

**North or direction of travel facing up on the map**
There are two ways to show the vehicle's movement in relation to the map. Tap the symbols to toggle between the vehicle's direction of travel or north shown facing up on the map.

When the map is shown with north facing up, the vehicle symbol moves in the actual compass direction on the map. If the vehicle is moving west, it will be shown moving left on the map (east is right, south is down, etc.).

When the vehicle symbol is pointing up, the map rotates under the vehicle symbol following the turns made by the vehicle. The compass symbol indicates which direction is north (N) on the map and the direction in which the front of the vehicle is pointing is shown in the center of the compass:

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<tr>
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<td>North</td>
</tr>
<tr>
<td>NE</td>
<td>Northeast</td>
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<tr>
<td>E</td>
<td>East</td>
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<td>SE</td>
<td>Southeast</td>
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<td>SW</td>
<td>Southwest</td>
</tr>
<tr>
<td>W</td>
<td>West</td>
</tr>
<tr>
<td>NW</td>
<td>Northwest</td>
</tr>
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</table>

**2D or 3D view**
Tap the symbols to toggle between 2D and 3D display.

With 3D display, the vehicle’s direction of travel is always up. The map rotates under the vehicle symbols following the turns made by the vehicle. The compass indicates which direction is north (N) on the map and the direction in which the front of the vehicle is pointing is shown in the center of the compass: The map scale is not shown in 3D mode.

With 2D display, the map is shown with north facing up, and the vehicle symbols moves in the actual compass direction on the map.

**Zoom in**
To make the map larger, tap the center display twice in quick succession with one finger or place two fingers on the center display and move them apart ("stretch").

**Zoom out**
To make the map smaller, tap the center display once with two fingers or place two fingers on the center display and move them together ("pinch").

**Scroll**
Place one finger on the map, swipe in the desired direction and release. The scroll function is only possible with the map in maximized view, not minimized.

**Change the headers displayed**
Maximize the map and tap the map heading at the top of the center display. The following headers can be displayed on the map:
1. Destination Destination, arrival time (ETA) or remaining travel time (RTA) and distance to destination (Distance). For more information on selecting ETA or RTA, see "Route settings and guidance".

2. Current position as address (Address) or as coordinates (Coordinates). When coordinates are shown, altitude is also shown (Altitude). To choose between address and coordinates, see section "Map settings".

**Related information**
- Settings for Sensus Navigation* (p. 21)
- Map navigation* in the instrument panel (p. 8)
- Map navigation* in head-up-display* (p. 9)
- Route settings and guidance* (p. 22)
- Map settings (p. 21)

**Map navigation* in the instrument panel**
Sensus Navigation can be presented and controlled in several different ways, e.g. via the instrument panel.

The map is only shown on the 12” instrument panel. While driving, the driver receives voice guidance and instructions on the instrument panel. Map guidance in the instrument panel can also be activated without entering a destination.

**The right-side steering wheel keypad and instrument panel**
Some of the navigation system's functions, such as Take me home and Cancel guidance, can be controlled using the right-side steering wheel keypad. If a message is displayed in the instrument panel, it must be accepted or dismissed before the menu can be displayed.

**Related information**
- Activating and deactivating map display* in the instrument panel (p. 9)
- Map navigation* in the center display (p. 6)
- Map navigation* in head-up-display* (p. 9)
Activating and deactivating map display* in the instrument panel

The map will be automatically displayed in the instrument panel when a destination is set. It can also be displayed without a set destination.

1. Pull down the center display's Top view.
2. Tap Settings.
3. Tap My Car ➔ Displays ➔ Driver Display Information.
4. Tap the Show Map radio button to activate map display in the instrument panel even if no itinerary has been activated.

Related information
- Map navigation* in the instrument panel (p. 8)

Map navigation* in head-up-display*

Sensus Navigation can be presented and controlled in several different ways, e.g. via the head-up display.

Navigation guidance on the windshield.

The driver can also get guidance and information from the navigation system in the head-up display on the lower section of the windshield.

You can make settings to specify which navigation information is shown in the head-up display, as well as the position of the information field.

Related information
- Map navigation* in the center display (p. 6)
- Map navigation* in the instrument panel (p. 8)

Voice control3 for navigation*

Several of the navigation system’s functions can be activated with voice commands.

Tap  and say one of the following commands:

- "Navigation" - Starts a navigation dialog and displays examples of commands.
- "Take me home" - Guidance is provided to the location set as Home.
- "Go to [city]" - Inputs a city as a destination, e.g. "Go to San Francisco".
- "Go to [address]" - Inputs an address as a destination. An address must contain city and street, e.g. "Go to Filbert Street 5, San Francisco".
- "Add intersection" - Starts a dialog to input two streets. The destination will then be the intersection of these two streets.
- "Go to [zip code]" - Input a zip code as the destination. e.g. "Go to 1 2 3 4 5".
- "Go to [contact]" - Input an address from the phone book as the destination. Example "Go to Robyn Smith".
- "Search [POI category]" - Search Points of Interest (POI) in a certain category (e.g. restaurants)4. To sort the list along the route, say "Along the route" when the list of results is displayed.

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3 Certain markets only.
4 The user can choose to call the POI or enter it as a destination.
• "Search [POI category] [city]" - Searches for POIs in a certain category and city. The list of results is sorted based on the center point of the city. Example "Look for restaurant in San Francisco".

• "Search [POI name]". For example, "Search Golden Gate Bridge".

• "Change country/Change state" - Changes the search area for navigation.

• "Show favorites" - Displays locations marked as favorites in the instrument panel.

• "Clear itinerary" - Deletes all stored waypoints and destinations in an itinerary.

• "Repeat voice guidance" - Repeats the most recent guidance instruction.

• "Turn off voice guidance" - Guidance off.

• "Turn on voice guidance" - Guidance on.

Entering a destination directly on the map*

There are several different ways to set a destination. Tapping a point on the map is one of these, and often the easiest. It is often easiest to scroll to the desired position and tap it.

1. Make sure the map is in full-screen mode.
2. Scroll to the desired location on the map.
3. Press and hold the location. An icon will be created and a menu will appear.
4. Select Go here to start guidance.

Deleting the icon

To delete the location's icon:

• Select Delete

Changing the icon's location

To change the location of the icon:

• Press and hold the icon, drag it to the desired location and then release it.

Related information

• Itinerary (p. 15)
• Entering a destination using an address (p. 11)
• Entering a destination with a free text search (p. 11)

For European countries, "country" is used instead of "state".

For Brazil and India, search area is changed in the center display.

* Option/accessory.
Entering a destination using an address

There are several ways to set a destination in the navigation system*. Entering an address is one of them.

1. When the map appears, expand the toolbar using the down arrow on the left-hand side and tap Set dest.

   > The map will switch to free text search.

2. Tap Address.

3. It is not necessary to fill in all of the fields. For guidance to a city, for example, you only need to fill in the city and country. You will then be guided to the center of the city.

4. Select any available field and use the center display’s keyboard to type:
   - Country/State/Province
   - City/Territory/Zip code
   - Address
   - Number
   - Junction

Related information

- Itinerary (p. 15)
- Entering a destination directly on the map* (p. 10)
- Entering a destination with a free text search (p. 11)
- Entering a POI as a destination (p. 12)
- Entering a destination using Recent/Favorites/Library (p. 13)
- Entering a destination with Send to Car (p. 14)
- Route settings and guidance* (p. 22)
- Information cards on the map* (p. 6)

Entering a destination with a free text search

A destination can be set in different ways in the navigation system* - with free text searching, for example, a search can be made using phone numbers, postal codes, streets, cities, coordinates and points of interest (POI7).

The on-screen keyboard can be used to type most characters and to search for destinations.

1. When the map appears, expand the toolbar using the down arrow on the left-hand side and tap Set dest.

   > The map will switch to free text search.

2. Enter a search word in the search box or limit the search results by choosing a filter.

   > The search results will be listed as you type.

---

7 Point of Interest

* Option/accessory.
3. If the search provided the desired result -
tap a search result to display its information
card and select to continue using the search
result.

If the search provided too many results -
tap Advanced filter to select a position to
search around and then select a search
result to continue using it.
• Around vehicle
• Around destination – only displayed if a
destination has been set.
• Along route – only displayed if a destina-
tion has been set.
• Around point on map

Coordinates
A destination can also be entered using map
cordinates.
• Enter coordinates, e.g. "N 58.1234 E
12.5678" and tap Search.

Compass directions N, E, S and W can be
entered in different ways, e.g.:

| Coordinates   | 58,1234N 12,5678E (with compass direc-
<table>
<thead>
<tr>
<th></th>
<th>tions after the coordinates)</th>
</tr>
</thead>
</table>

| Coordinates   | 58,1234-12,5678 (with hyphen without com-
|               | pass direction) |

Either a dot [.] or a comma [.] can be used.

Related information
• Itinerary (p. 15)
• Entering a destination directly on the map* (p. 10)
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• Entering a destination using Recent/Favorites/Library (p. 13)
• Entering a destination with Send to Car (p. 14)
• Route settings and guidance* (p. 22)

Entering a POI as a destination
A destination can be specified in different ways
in the navigation system* - selecting a point of
interest (POI⁸) is one of them.

1. When the map appears, expand the toolbar
using the down arrow on the left-hand side
and tap Set dest.

> The map will switch to free text search.

2. Tap POI.

3. Tap the desired filter (some alternatives are
only shown when a destination or waypoint is
specified):
• Near the vehicle
• Near the destination
• Near waypoint
• Along route
• Around point on map

4. Scroll to the desired POI and select it.

5. Select Start navigation or Add as
waypoint.

Many POI (e.g. restaurants) have sub-categories
(e.g. fast food).

⁸ Point of Interest

* Option/accessory.
Which POI are shown on the map can be changed via the map settings. This setting does not affect searches for POI to be used as destinations (even POI that have not been selected for display can be shown here as alternate destinations).

Certain POI will only appear on the map if the scale is greater than 1 km (1 mile).

NOTE

- The symbols, number and variants of POIs vary between different markets.
- In connection with map data updating, some symbols may be added and others disappear – all symbols for the map system in question can be found through the menu system.

Related information

- Itinerary (p. 15)
- Entering a destination directly on the map* (p. 10)
- Entering a destination using an address (p. 11)
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- Entering a destination using Recent/Favorites/Library (p. 13)
- Entering a destination with Send to Car (p. 14)
- Map settings (p. 21)

Entering a destination using Recent/Favorites/Library

A destination can be specified in different ways in the navigation system* - selecting from a list is one of them.

1. When the map appears, expand the toolbar using the down arrow on the left-hand side and tap *Set dest*.

   - The map will switch to free text search.

2. Select one of these lists at the top of the screen:
   - Recent
   - Favorites
   - Library

After an option in a list has been marked, it can be added as a destination by tapping either the *Start navigation* or *Add as waypoint* button.

Recent

This is a list of previous searches. Scroll through the list and select.

This is also available as a menu option in the instrument panel and can be displayed using the right-side steering wheel keypad.

To edit the list, tap *Edit*.  

* Option/accessory.
 Favorites
This is a list of locations that have been set as favorites from the Library. Scroll through the list and select.

A position that has been deleted in Favorites will remain in Library, but with a grayed-out star. To return a position to Favorites, go to Library and mark the position's star again.

Use Set Home address to program a frequently used destination. An entered Home destination is also available as a menu option in the instrument panel and can be displayed using the right-side steering wheel keypad.

To edit the list, tap Edit.

Library
This is a list of saved locations and itineraries. The most recently saved will be shown at the top of the list.

Tap the location’s star to select/deselect it as a favorite. A location with a selected (filled in) star will also be displayed under the Favorites heading.

If a location is deleted in Library, it will also be deleted in Favorites.

The Library can be sorted in various ways:
- Added - sort in chronological order.
- Name - sort in alphabetical order.

- Distance - sort according to distance from the vehicle's current location.
- Received - locations sent to the vehicle using the Send to Car function will be filtered out. New unread locations have a BLUE marker that is grayed out once the positions have been read.

Use Edit to delete one or more items in the list.

Related information
- Itinerary (p. 15)
- Entering a destination directly on the map* (p. 10)
- Entering a destination using an address (p. 11)
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- Entering a destination with Send to Car (p. 14)
- Route settings and guidance* (p. 22)

Entering a destination with Send to Car
There are several ways to set a destination. Using the Send to Car function is one of them.

Sending a location to the vehicle
The Send to Car function makes it possible to add a destination/location to the vehicle's navigation system* from a computer.

Send to Car can also be performed using the Volvo On Call app. Volvo On Call can also be used to send a destination/location to the vehicle from a Volvo On Call customer service center.

Please note that the procedure shown here is only one example from one of several map service providers.

1. Go to wego.here.com on the computer.
   > A map service will open.
2. Search for the desired location.
3. Right-click the location and then click the address.
   > A side menu/information card will open.
4. Click Share in the side menu.
5. Click Send to car in the side menu.
6. Select the vehicle and enter the vehicle's VIN number or the email address registered to your Volvo ID. Then click Send.

* Option/accessory.
7. Click Finish.
   > The location will be sent to the vehicle.

For more information about other service providers and the Send to Car function, please visit the Volvo Cars support site (support.volvocars.com).

Receiving and using a location in the vehicle

In order for the vehicle to receive data, it must be connected to the Internet. See the instructions in the Owner's Manual. If the location was sent to the vehicle using Volvo On Call, the vehicle's integrated modem will be used to receive the data, i.e. no other Internet connection is required.

1. When the vehicle has received a location, a notification will appear in the center display.
   Tap the notification/symbol.
   > An information card will open.

2. Select how you would like to use the location.

Using a stored location

Received locations are saved in the navigation system's library for later use.

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- Entering a destination directly on the map* (p. 10)
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- Route settings and guidance* (p. 22)

Itinerary

The itinerary is the route that the navigation system* suggests when the user enters a destination.

The first location set will be the itinerary's destination (final destination).

The next locations set will be the itinerary's waypoints (intermediate stops along the route).

An itinerary and its destination and waypoints can be easily edited at any time.

Related information

- Viewing an itinerary (p. 16)
- Editing or clearing an itinerary (p. 16)
- Viewing alternative routes (p. 17)
- Show guidance in the itinerary (p. 17)
**NAVIGATION**

### Viewing an itinerary

It is possible to show the itinerary in the navigation system* during road navigation.

1. During guidance, expand the toolbar using the down arrow and then the three dots.

2. Tap the *Itinerary* symbol to open the itinerary.

**Related information**
- Editing or clearing an itinerary (p. 16)
- Viewing alternative routes (p. 17)
- Show guidance in the itinerary (p. 17)

### Editing or clearing an itinerary

It is possible to remove waypoints or the entire itinerary in the navigation system* while guidance is being provided.

1. Expand the toolbar using the down arrow first and then the three dots.

2. Tap the *Itinerary* symbol to open the itinerary.

3. Tap the recycling bin to delete a waypoint from the itinerary or tap **Clear itinerary** to delete the entire itinerary.

**Related information**
- Viewing alternative routes (p. 17)
- Viewing points of interest along the route (p. 17)
- Show guidance in the itinerary (p. 17)
Viewing alternative routes
It is possible to search for alternate routes in the navigation system* while guidance is being provided.
1. Expand the toolbar using the down arrow first and then the three dots.
2. Tap the Itinerary symbol to open the itinerary.
3. Tap Alternative routes.
4. Select an alternative route:
   - Eco
   - Fast
   - Scenic
5. Tap the map.
   > The updated route will be displayed on the map and guidance will resume.

Related information
- Editing or clearing an itinerary (p. 16)
- Show traffic disruptions along the route (p. 18)
- Selecting a detour during map navigation* (p. 19)
- Route settings and guidance* (p. 22)

Viewing points of interest along the route
A list of points of interest (POI9) along your route can be displayed in the navigation system*.

1. Tap Ahead.
2. Tap POI.
   > POIs along the route are displayed according to their distance from the vehicle.
3. If there are multiple POIs in the same location, they will be displayed as a group. Tap the group for a list of the POIs.
4. Select a POI.
5. Select one of the information card's options and follow the instructions.

Related information
- Information cards on the map* (p. 6)
- Map settings (p. 21)

Show guidance in the itinerary
A list of coming guidance points helps the driver prepare in advance for upcoming maneuvers, e.g. moving into the correct lane before making a turn.
To display a list of upcoming turns in the itinerary in the navigation system*:
1. Expand the toolbar using the down arrow on the left-hand side.
2. Expand the toolbar further using the three dots.
3. Tap the Turn-by-Turn symbol (see image).

A list of guidance points on the itinerary will be displayed instead of the toolbar (you can scroll through the list). Tap the arrow pointing to the left to minimize the list.

The next guidance point is always shown at the top of the list.

Tap one of the guidance points in the list to show the location on the map. Tap the map's crosshairs (see image) to return to the map guidance view, where the map shows the vehicle's current location.
Traffic disruptions on map

The navigation system receives information on traffic events and traffic disruptions and displays these on the map.

**NOTE**

Traffic information is not available in all areas/countries.

Coverage areas for traffic information is continuously extended.

It is possible to make settings to determine which traffic-related information is shown on the map.

Traffic disruptions, such as congested and slow-moving traffic, road work and accidents, are shown with different symbols when the map is zoomed in.

Road construction, for example, is indicated by this symbol. Sections of road with major traffic disruptions are also shown with a red line on the side of the road affected. The line also indicates which direction of traffic is affected. If the disruption affects both directions of traffic, the section of road is marked with red lines on both sides of the road.

**Information on traffic disruptions**

- Tap the traffic disruption symbol.
  > An information card will be displayed. Information may include e.g. the location of the traffic disruption with the street name/road number and its type/extent/duration.

**Avoiding traffic disruptions**

If there are traffic disruptions along the route, the Avoid option can be selected. The system will then calculate an alternate route.

**Real Time Traffic Information (RTTI)**

If the vehicle is connected to the Internet, enhanced traffic information can be retrieved using RTTI.

**Related information**

- Traffic information settings (p. 23)
- Map settings (p. 21)
- Show traffic disruptions along the route (p. 18)
- Real Time Traffic Information (RTTI) (p. 20)
- Information cards on the map* (p. 6)

**Show traffic disruptions along the route**

A list of traffic disruptions along the route can be shown when a destination has been entered in the navigation system*.

1. When the map appears, expand the left-side toolbar using the down arrow and then the three dots.

2. Tap Ahead.

3. Tap Traffic. If there are no traffic problems along your route, the traffic button will be grayed out.
   > Any traffic problems along the route will be displayed according to their distance from the vehicle.

4. For additional information about a traffic disruption, tap the row to open an information card. Select one of the information card’s options and follow the instructions.

---

9 Point of Interest
10 Only available in certain markets.
11 Certain markets only.

* Option/accessory.
5. Tap **Avoid** to avoid the traffic disruption. The route will be recalculated and guidance will begin for the new route.

**Related information**
- Traffic disruptions on map* (p. 18)
- Traffic information settings (p. 23)
- Information cards on the map* (p. 6)
- Real Time Traffic Information (RTTI) (p. 20)

### Selecting a detour during map navigation*

Select a detour to avoid the next section of the route, e.g. if the road is closed.

1. Expand the left-side toolbar using the down arrow and then the three dots.

2. Tap the **Detour** symbol to display an alternate route with information on the new distance and estimated travel time. Normally, only short detours are suggested to take you quickly back to your original itinerary.

3. To **accept** the suggested detour: Tap the sign with the detour information. The route is also accepted if you begin driving the suggested route. Once the suggestion has been accepted, guidance will resume using the detour as the new route. If you do not **accept** the suggestion, continue driving the original route.

Instead of choosing **Detour**, you can instead select another route and leave your itinerary's current route. The system will update the route automatically and continue guidance to your destination along the most suitable route.

It is also possible to display an alternative route while driving.

**Related information**
- Viewing alternative routes (p. 17)

* Option/accessory.
Real Time Traffic Information (RTTI)\textsuperscript{12}

When the vehicle is connected to the Internet, the driver can access enhanced traffic information (RTTI\textsuperscript{13}). Information on traffic events and flow is continuously gathered from mobile apps, public authorities and GPS data from the vehicle. When a vehicle requests traffic flow information, anonymous data about traffic flow in the vehicle's location is also provided, which helps enable the service to function. Anonymous data is only sent when RTTI is activated.

Current traffic information is shown in the map navigation system* for highways/freeways, major roads, secondary roads and in some cases urban routes.

The amount of traffic information shown on the map depends on the distance to the vehicle and is only shown within approximately 120 km (75 miles) from the vehicle's location.

Text and symbols on the map are displayed in the usual way and the traffic flow shows how fast the traffic is moving on a road in comparison with the road's speed limit. The traffic flow is shown on the map on each side of the road with a colored line in each direction.

- Green - no disturbances.
- Red - congestion/traffic jam/accident.
- Black - road closed.

\begin{table}[h]
\centering
\begin{tabular}{|l|}
\hline
Traffic information is not available in all areas/countries. \\
Coverage areas for traffic information is continuously extended. \\
\hline
\end{tabular}
\end{table}

Related information
- Activating and deactivating enhanced traffic information (p. 20)

Activating and deactivating enhanced traffic information\textsuperscript{14}

When the vehicle is connected to the Internet, the driver can access enhanced traffic information (RTTI\textsuperscript{15}) in the navigation system*.

To activate or deactivate RTTI:

1. Tap Settings in the center display’s Top view.
3. Select Real Time Traffic Information to activate (replace regular traffic information with RTTI) or deactivate RTTI.
4. One pop-up window with the heading Terms and conditions and one with the heading Data sharing will appear if RTTI is being used for the first time.

If the vehicle’s Internet connection is lost when RTTI is activated, regular traffic information will be automatically activated. RTTI will be reactivated when the vehicle is once again connected to the Internet.

Related information
- Real Time Traffic Information (RTTI) (p. 20)
- Traffic information settings (p. 23)

\textsuperscript{12} Certain markets only.
\textsuperscript{13} Real Time Traffic Information
\textsuperscript{14} Certain markets only.
\textsuperscript{15} Real Time Traffic Information

* Option/accessory.
Settings for Sensus Navigation*
Select settings for how the route and other information should be presented.

Settings ➔ Navigation

Settings can be personalized in the following areas:

- **Map** - manages the content and appearance of the map.
- **Route and Guidance** - handles guidance and how routes are calculated and displayed.
- **Traffic** - manages traffic information.

Related information
- Map settings (p. 21)
- Route settings and guidance* (p. 22)
- Traffic information settings (p. 23)

Map settings
These settings are used to determine how the map will be displayed on the screen.

Settings ➔ Navigation ➔ Map

Settings can be personalized in the following areas:

- **Position Format**
- **Map Display Format**
- **Show Speed Cameras**
- **Show Favorites**
- **Point of Interest (POI)**

Position Format
Select **Position Format** to designate/display the current location on the map using its address or its coordinates:

- **Address**
- **Coordinates and Altitude**

Map Display Format
Select **Map Display Format** to choose background lighting for the map:

- **Day** - bright colors.
- **Night** - dark colors for better night vision.
- **Auto** - the system will switch between **Day** and **Night** depending on the ambient light in the passenger compartment.

Speed cameras
Select **Show Speed Cameras** to display speed cameras on the map.

Favorites
To display **Favorites** on the map, select.

Point of Interest (POI)
Select POIs to be displayed on the map under **Point of Interest (POI)**. Tap on the desired category, e.g. "Transportation", and then select show all or specific sub categories. Tap **Back** or **Close** to exit the menu.

Related information
- Settings for Sensus Navigation* (p. 21)
- Route settings and guidance* (p. 22)
- Traffic information settings (p. 23)
- Viewing points of interest along the route (p. 17)
- Entering a POI as a destination (p. 12)
- Entering a destination using Recent/Favorites/Library (p. 13)

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16 This function is not available on all markets.  
17 Point of Interest
Route settings and guidance*
Settings for how the route is calculated and how guidance is presented are selected here.

Settings ➔ Navigation ➔ Route and Guidance

Settings can be personalized in the following areas:

- Arrival Time Format
- Voice Guidance Level
- Choose Default Route Type
- Route Learning
- Avoidance Settings
- Propose Gas Station

Arrival Time Format
Choose how arrival time will be displayed:

- ETA\(^{18}\) (estimated time of arrival at the destination)
- RTA\(^{19}\) (remaining time to arrival at destination)

Times are displayed according to the time zone of the destination.

Voice Guidance Level
1. Tap Voice Guidance Level.

2. Tap desired voice guidance:
   - None (no automatic voice guidance, but guidance can be manually requested once)
   - Low (only one message per guidance point)
   - Medium (up to 3 messages per guidance point, with limited information provided)
   - Full (up to 4 messages per guidance point and all available information provided)

Choose Default Route Type
Select the default type of route to be used:

- Fast
- Eco
- Scenic (highways/freeways are avoided whenever possible; note that this could lead to longer travel times)

It is also possible to display an alternative route while driving.

Route Learning
Select Route Learning to allow data to be collected to optimize route calculations.

Avoid
Tap Avoidance Settings to open a menu of options to automatically avoid (if possible) when calculating a route. Possible selections include tunnels, ferries, congestion charge zones, etc.

Suggest service station
Tap Propose Gas Station to activate or deactivate display of nearby service stations.

Related information
- Settings for Sensus Navigation* (p. 21)
- Map settings (p. 21)
- Traffic information settings (p. 23)
- Viewing alternative routes (p. 17)

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\(^{18}\) Estimated Time of Arrival
\(^{19}\) Remaining Time to Arrival

* Option/accessory.
Traffic information settings

These settings are used to determine how traffic information\(^{20}\) will be displayed on the map*. Settings can be personalized in the following areas:

- Show & Handle Traffic Events
- Avoid Traffic Events
- Show Free Flowing Traffic
- Real Time Traffic Information

Show & Handle Traffic Events
Select to display traffic events on the map and use this information to calculate routes:

- None
- Major
- All types

Avoid Traffic Events
Select to avoid traffic problems when calculating routes.

- Never
- Ask - (suggestions for alternate routes will be provided when available during the trip)
- Always

Show Free Flowing Traffic
Select Show Free Flowing Traffic to show this on the map.

Using RTTI\(^{21}\)
Select Real Time Traffic Information to use enhanced traffic information when the vehicle is connected to the Internet (RTTI).

Related information
- Settings for Sensus Navigation* (p. 21)
- Map settings (p. 21)
- Route settings and guidance* (p. 22)
- Real Time Traffic Information (RTTI) (p. 20)

Map updating
MapCare is a map update service for Volvo vehicles equipped with Sensus Navigation*.

General update information
There are two ways to update maps. Either via a computer and USB flash drive or directly from the vehicle\(^{22}\) (if the vehicle has an Internet connection).

The vehicle's map is divided into a number of fixed regions. When updating map data, the driver does not need to update all of these regions, but can instead choose to update only one or more specific regions.

One or more regions can be updated when the vehicle has an Internet connection. However, updating a large number of regions or the entire map requires a significant amount of data, and it may be advisable to use a computer and USB flash drive instead.

NOTE
If an itinerary includes more than one region, all regions should have the same version number to enable the system to calculate the best route to the destination.

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\(^{20}\) Certain markets only.
\(^{21}\) Certain markets only.
\(^{22}\) Only available in certain countries.
NAVIGATION

**Updating the map structure**
Changing the map structure may sometimes be necessary, e.g., if a region is added or if a large region is divided into smaller ones. If this is the case, normal updates of individual regions may not be possible and a message will be displayed explaining what has happened.

In this situation, the entire map must be reinstalled from a USB flash drive. For additional information, see the Volvo Cars support site (support.volvocars.com) or contact a Volvo retailer.

**Updating navigation system software**
In addition to maps, the navigation system's own software is under constant development and needs to be updated occasionally. This could mean that a recently downloaded map is not supported by the current navigation system software. In such cases, a message will be displayed indicating that the navigation system software must be updated. Consult a Volvo retailer for assistance with the update.

<table>
<thead>
<tr>
<th><strong>FAQs</strong></th>
<th><strong>Answer</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ask</strong></td>
<td><strong>Answer</strong></td>
</tr>
<tr>
<td>Can the map data platform be changed from e.g. Europe to North America?</td>
<td>Yes, with some exceptions. Contact a Volvo retailer for up-to-date information.</td>
</tr>
<tr>
<td>How long do map updates take?</td>
<td>This depends on the size of the file(s) and the speed of the Internet connection. Information about the size of the update (in MB) will be displayed on the screen.</td>
</tr>
<tr>
<td>How big is an update?</td>
<td>This varies from market to market. For detailed information on your market's map, see the Volvo Cars support site, support.volvocars.com.</td>
</tr>
<tr>
<td>The update is not working. What should I do?</td>
<td>Try the Volvo Cars support site (support.volvocars.com) or contact a Volvo retailer.</td>
</tr>
</tbody>
</table>

**Related information**
- Updating maps* with a computer and USB flash drive (p. 25)
- Updating maps* from a vehicle with Internet connection (p. 26)
- Frequently Asked Questions regarding map navigation* (p. 27)
- Navigation license agreements* (p. 28)
- Map navigation copyright* (p. 34)
Updating maps* with a computer and USB flash drive

New maps can be downloaded from the Internet to a USB flash drive and then transferred from the flash drive to the vehicle.

Preparations

**USB flash drive**
For use in updates, the USB flash drive must meet the following requirements:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB standard (1.0/2.0/3.0):</td>
<td>At least 2.0</td>
</tr>
<tr>
<td>File system (Ext2/NTFS/FAT32):</td>
<td>FAT32</td>
</tr>
<tr>
<td>Capacity (8/16/32/64 GB):</td>
<td>Map file size varies from market to market. See file size descriptions under &quot;Detailed information&quot; for your market on the Volvo Cars support site (support.volvocars.com).</td>
</tr>
</tbody>
</table>

Determining the current map version

1. Tap Download Center in App view.

2. Tap the arrow to expand the region.
   > Detailed map information will be displayed.

3. Make a note of the map information shown under the map image.

**Downloading map data from the Internet to a USB flash drive**

Make sure you have a USB flash drive and the map information you noted down.

1. Go to the Volvo Cars support site (support.volvocars.com) on a computer connected to the Internet.
2. Select the maps, vehicle model and model year.
3. Tap the region to be updated.
   > A map containing information about the latest map data for the region will appear.
4. Verify that the map version is newer than the version in the vehicle.
5. Connect a USB flash drive to the computer and download the update to the USB flash drive.

The time required for the download varies depending on the size of the map and the speed of the Internet connection.

**Transferring map data from the USB flash drive to the vehicle**

The time required to transfer data from the USB flash drive to the vehicle varies depending on the size of the map data file. The update can be done while driving. If the transfer has not been comple-
ed when the ignition is switched off, the update will continue the next time the vehicle is driven.

**Updating**

1. Activate the navigation system.

2. Connect the USB flash drive to the vehicle’s USB port. If there are two USB ports, the other port cannot be used at the same time.

3. The navigation system automatically detects that an update is available and, during the update of the whole map database, shows on the screen what percentage of the process is complete.

   > When individual regions are updated, the update will start immediately.

   To start an update of the entire map database, tap **Confirm**. Tap **Cancel** to stop the installation.

4. Tap **Confirm**. The update of the entire map database will begin and progress information will be shown on the center display.

5. The center display will indicate when the update is finished. Remove the USB flash drive from the port.

6. Restart the infotainment system.

7. Verify that the correct map data has been transferred to the vehicle by repeating the steps described above under “Determining the current map version”.

**Interruptions**

If an update is interrupted, an explanatory text will always appear in the center display.

<table>
<thead>
<tr>
<th>What happens if...</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>the infotainment system is turned off while an update is in progress?</td>
<td>The process will pause and will continue automatically when the system is reactivated, e.g. when the engine is started.</td>
</tr>
<tr>
<td>The USB flash drive is removed from the USB port before the update is finished?</td>
<td>The process will pause and will continue automatically when the USB flash drive is reconnected to the USB port.</td>
</tr>
</tbody>
</table>

For additional information, see the Volvo Cars support site (support.volvocars.com) or contact a Volvo retailer.

**Related information**

- Updating maps* from a vehicle with Internet connection (p. 26)
- Map updating (p. 23)

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* Only available in certain countries.

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**Updating maps* from a vehicle with Internet connection**

The navigation system’s maps can be updated when the vehicle is connected to the Internet.
The vehicle must be connected to the Internet; see the instructions in the Owner’s Manual.

1. Tap **Download Center** in App view.
   - The app will start and a number shown near **Maps** indicates the number of available map updates for the specified home region. This number will be displayed until a new search for updates has been performed or until updates have been installed.
2. Tap **Maps**.
3. Tap **Install** and then **Confirm**.
   - The installation/update of the selected map will begin.

For additional information, see the Volvo Cars support site (support.volvocars.com) or contact a Volvo retailer.

**Automatic map updates**
Automatic updates can only be selected if the **Auto Software Update** function is activated under **Settings → System → Download Center**.

1. Automatic map updates can only be selected for your home region. If the home region is not already selected, tap the down-arrow to expand the region.
   - Detailed map information will be displayed.
2. Tap **Set as home region**.
3. Check the **Auto update:** box.
   - When the vehicle is connected to the Internet and map updates are available, they will be automatically downloaded to the vehicle.

**Related information**
- Updating maps* with a computer and USB flash drive (p. 25)
- Map updating (p. 23)

**Frequently Asked Questions regarding map navigation**
Here are answers to some frequently asked questions about the navigation system.

**The vehicle's location on the map is not correct**
The navigation system displays the vehicle's location with an accuracy of approximately 20 meters (65 ft).

Accuracy may be reduced slightly when driving on a road that is parallel with another road, winding roads, multi-level roads and long stretches of road with no distinct curves.

High mountains, buildings, tunnels, viaducts, interchanges, multi-level roads, etc. may also affect the satellite signal reception, which may also reduce the system’s ability to accurately calculate the vehicle’s location.

**The system does not always calculate the fastest/shortest route**
Route calculation takes into account factors such as distance, road width, type of road, traffic intensity and speed limits to find the theoretically best possible route. Familiarity with an area and experience may enable the driver to find a more efficient route.

* Option/accessory.
The system uses e.g. toll roads or highways even though I have chosen to avoid them
When calculating longer routes over greater distances, the system may choose major roads for technical reasons.
If you have chosen to avoid toll roads and highways, these will be avoided whenever possible and only used when no other viable option is available.

After being transported, the vehicle's location on the map is not correct
If the vehicle is transported on e.g. a ferry or train, or if satellite signals have been blocked for some other reason, it may take up to 5 minutes before the vehicle's location can be accurately calculated.

The vehicle symbol moves erratically on the screen after changing tires
In addition to satellite signals, the vehicle's speedometer and a gyroscopic sensor are also used to calculate location, speed and direction of travel. If any of the tires are changed, e.g. a spare tire or snow tires have been installed, the system needs to "learn" the new tire dimensions.

To help ensure the system functions optimally, Volvo recommends driving for a short period on roads with good satellite reception (clear view).

The map does not represent actual road conditions
Because road changes/additions/rerouting, new traffic regulations, etc. are always being implemented, the map database may not be up to date.
The database is continuously being updated and improved. Check regularly for updates.

The vehicle symbol jumps around or spins
The system may need a few seconds to determine the vehicle's location before you start driving.
Switch off both the navigation system and the ignition. Restart but remain at a standstill for a moment before driving.

The map information is not up to date
See the next heading.

Is the most recent map version installed?
Map information is continuously being updated and improved. When updating maps via a computer and USB, the vehicle's current map version can be displayed. Check the map version in the vehicle and compare it with the available map version on the Volvo Cars support page, support.volvocars.com.

Related information
• Map updating (p. 23)

Navigation license agreements*
The following is information for the end-user of the Sensus Navigation system.

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* Option/accessory.
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(Canadian models) ACCORD DE LICENCE D’UTILISATEUR FINAL DESTINÉ À LA DISTRIBUTION PAR HERE EN LES AMÉRIQUES / ASIE PACIFIQUE

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here.com/supplierterms
MODALITÉS

Restrictions de la licence d'utilisation : Le titulaire de la licence consent à utiliser les Données en question à des fins exclusivement personnelles, non commerciales pour lesquelles la licence a été accordée et non à des fins d’offre de services informatiques, d’exploitation partagée ou autres fins du même type. Le titulaire de la licence consent également à ne reproduire, ne copier, ne modifier, ne décompiler, ne désassembler ou ne concevoir à rebours aucune partie de ces Données et à ne les transférer ni les distribuer sous quelque forme ni à aucune autre fin, sauf dans la mesure permise par les lois prescrites en cette matière.

Restrictions du transfert de la licence : Cette licence restreinte ne permet pas de transférer ou de revendre les Données, sauf à la condition où le transfert des Données et de tous les outils associés est permis sur une base définitive lorsque : (a) aucune copie des Données n’est conservée par le titulaire de la licence; (b) le bénéficiaire accepte les modalités de l’accord de licence de l’utilisateur final; (c) les Données sont transférées sous strictement la même forme qu’à l’achat par cession physique du média original (par ex. le CD-ROM ou DVD d’origine), de l’emballage d’origine, de tous les manuels et autres documents. Les séries multidiscques ne peuvent être transférées ou vendues que sous leur forme intégrale d’origine et non comme une partie de celle-ci.

Restrictions additionnelles de la licence : Sous réserve des consignes particulières d’utilisation transmises par HERE dans la licence et sans limiter la portée du paragraphe précédent, l’utilisation des Données de la licence est sujette aux conditions du présent accord qui prévoit que l’utilisateur ne peut en aucun cas (a) utiliser les Données avec les produits, les systèmes ou les applications faisant l’objet d’une installation sur des véhicules dotés d’un système de navigation, de positionnement, de répartition, de radioguidage routier en temps réel, de gestion de parcs automobiles et d’applications semblables ou (b) les utiliser avec des dispositifs de positionnement et des appareils électroniques ou informatiques mobiles ou sans fil, y compris les téléphones cellulaires, les ordinateurs de poche ou portables, les téléavertisseurs et les assistants numériques personnels ou PDA.

MISE EN GARDE : Ces Données peuvent comporter des informations inexactes ou incomplètes en raison du passage du temps, de l’évolution des circonstances, des sources utilisées et des difficultés par nature de la collecte exhaustive de Données géographiques, de tout ce qui peut conduire à des résultats incorrects.

Exonération de garantie : HERE ET SES TITULAIRES DE LICENCES (Y COMPRIS LEURS PROPRES CONCÉDANTS ET FOURNISSEURS) DÉCLINENT TOUTE GARANTIE, EXPRESSE OU IMPLICITE, DE QUALITÉ, DE PERFORMANCE, DE VALEUR MARCHANDE, D’ADÉQUATION À UN USAGE PARTICULIER OU DE NON-CONTREFAÇON. Certains États, territoires et pays n’autorisent pas certaines exclusions de garantie, et, dans cette mesure, les exclusions ci-dessus pourraient ne pas s’appliquer.
Exonération de responsabilité : HERE ET SES CONCÉDANTS (Y COMPRIS LEURS PROPRES CONCÉDANTS ET FOURNISSEURS) NE PEUVENT ÊTRE TENUS RESPONSABLES PAR LE TITULAIRE DE LA LICENCE À L'ÉGARD DE TOUTE RÉCLAMATION, DEMANDE OU ACTION, QUELLE QUE SOIT LA NATURE DE LA CAUSE DE LA REVENDICATION, DEMANDE OU ACTION ALLÉGUANT TOUTE PERTE, BLESSURE OU DES DOMMAGES, DIRECTS OU INDIRECTS, QUI POURRAIENT RÉSULTER DE L'UTILISATION OU LA POSSESSION DE CES DONNÉES, OU DE TOUTE PERTE DE BÉNÉFICES, REVENUS, CONTRATS OU ÉCONOMIE ATTENDUE OU DE TOUT AUTRE DOMMAGE DIRECT, INDIRECT, ACCESSOIRE, PARTICULIER OU CONSECUTIF, DÉCOULANT DE L'UTILISATION DU TITULAIRE OU DE L'IMPOSSIBILITÉ D'UTILISER CES DONNÉES, DE TOUT DÉFAUT DE CES DONNÉES, OU DE LA VIOLATION DE CES MODALITÉS OU CONDITIONS, QUE CE SOIT DANS UNE ACTION EN RESPONSABILITÉ CONTRACTUELLE OU DÉLICTUELLE OU FONDÉE SUR UNE GARANTIE, MÊME SI HERE OU SES CONCÉDANTS DE LICENCE ONT ÉTÉ AVISÉS DE LA POSSIBILITÉ D'UN TEL DOMMAGE. Certains États, territoires et pays n'autorisent pas certaines exclusions de responsabilité ou limitations des dommages-intrêts, dans cette mesure, la disposition ci-dessus pourrait ne pas s'appliquer.

Contrôle des exportations : Le titulaire de la licence accepte, où qu’il soit, de n'exporter aucune partie des Données de tout produit direct des présentes sauf en conformité, ainsi qu’à toutes les licences et autorisations requises ci-après, aux lois applicables relatives à l’exportation, aux règles et règlements, y compris, mais pas uniquement aux lois, règles et règlements administrés par le Bureau du contrôle des avoirs étrangers du département du Commerce des États-Unis et le Bureau de l’industrie et de la sécurité du département du Commerce des États-Unis. HERE est dispensée de ses obligations en vertu des présentes dans la mesure où de telles lois, règles ou réglements relatifs à l’exportation de cette nature l’empêcheraient de s’y conformer.

Intégralité de l’accord : Ces modalités constituent l’intégralité de la licence entre HERE (et ses concédants, y compris leurs concédants et fournisseurs) et le titulaire de la licence eu égard à l’objet des présentes et remplacent la totalité de toutes les ententes écrites ou orales antérieures conclues entre les parties concernant l’objet des présentes.

Divisibilité : Le titulaire de la licence et HERE reconnaissent que toute partie de l’accord jugée illégale ou inexécutable devra être enlevée et que le reliquat de l’accord restera entièrement en vigueur.


Tout litige, réclamation, ou action découlant ou survenant en relation avec les Données (« Réclamations ») sera soumis à la compétence exclusive (a) des tribunaux de l’État de l’Illinois pour toutes Réclamations concernant les Données qui vous sont fournies au titre des présentes pour les régions Amériques et/ou Asie Pacifique et, (b) des tribunaux néerlandais pour les Données qui vous sont fournies au titre des présentes pour l’Europe, le Moyen-Orient et/ou l’Afrique.

Utilisateurs finaux du gouvernement : Si les Données sont en cours d’acquisition par ou pour le compte du gouvernement des États-Unis ou toute autre personne qui cherche à obtenir ou à appliquer des droits similaires à ceux habituellement réclamés par le gouvernement des États-Unis, ces Données sont considérées comme « article commercial » tel que ce terme est défini dans la réglementation 48 CFR (« FAR ») 2,101, dont l’usage est autorisé conformément à la présente licence de...
l'utilisateur final. Chaque copie de Données livrée ou fournie par d'autres moyens doit être marquée et inscrite, le cas échéant, avec le texte suivant « Avis d'utilisation » et devra être traitée conformément aux Avis de ce type:

AVIS D'UTILISATION
NOM DE L'ENTREPRENEUR (FABRICANT/ FOURNISSEUR):

HERE
ADRESSE :
425 West Randolph Street, Chicago, IL 60606.

Ces Données commerciales sont des éléments tels que définis dans la FAR 2.101 qui sont soumis à la licence de l'utilisateur final en vertu de laquelle ces Données ont été fournies.


Si l'agent de négociation des contrats, un organisme du gouvernement fédéral, ou tout autre fonctionnaire fédéral refuse d'utiliser la légende fournie dans les présentes, le responsable des marchés, l'organisme du gouvernement fédéral, ou tout autre fonctionnaire fédéral doit en aviser HERE avant de rechercher des moyens supplémentaires ou autres droits dans les Données.


Related information
• Map updating (p. 23)
• Map navigation copyright* (p. 34)

Map navigation copyright*
For information on (© Copyright), see "Navigation license agreements".

Related information
• Map updating (p. 23)
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