User Guide
Hard-Disc Navigation and Navigation Services

Operating instructions for the navigation system
MBUX

Version 1.00 (as at 01/20/2022)

Mercedes-Benz

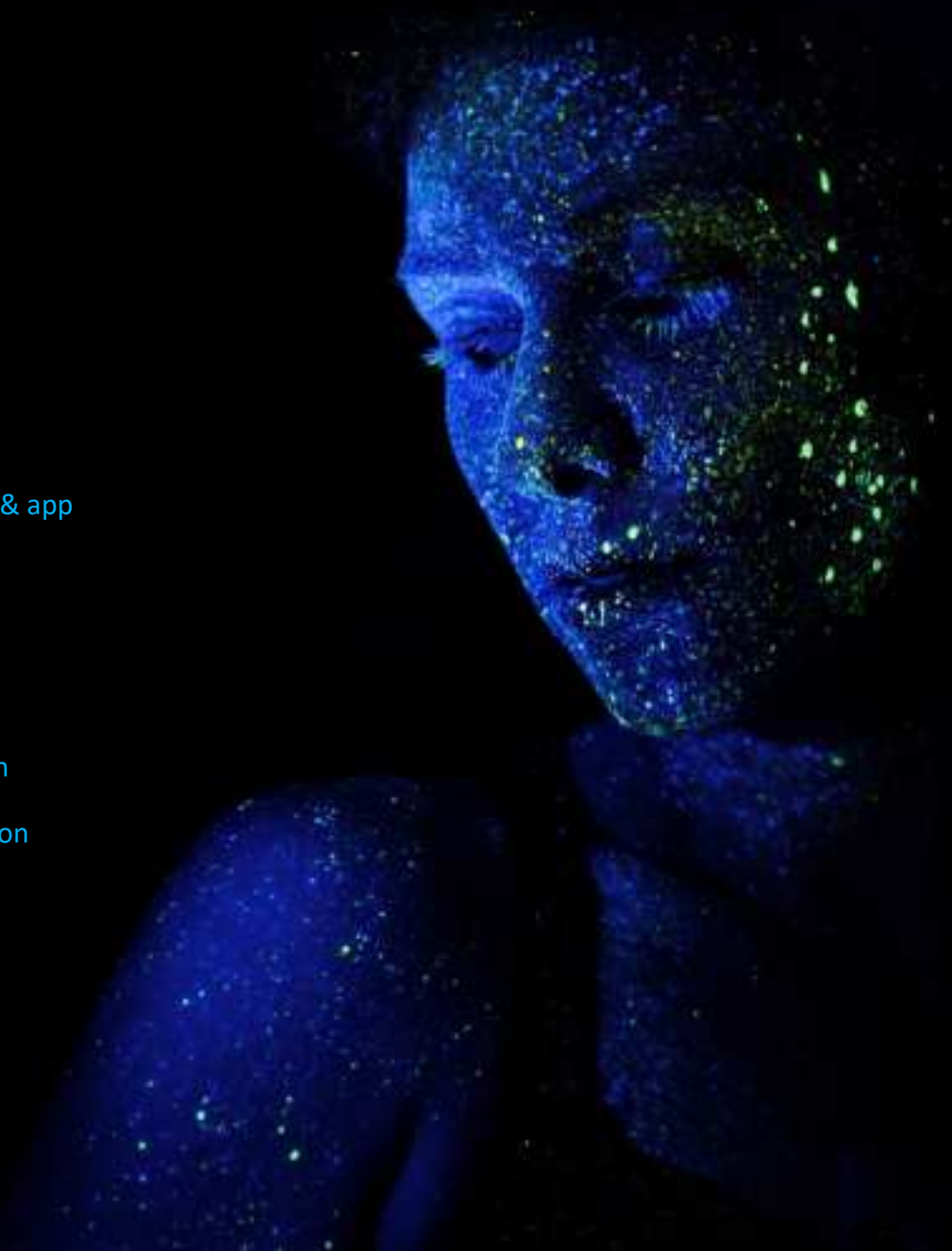
Content.

This document serves to display operating instructions for hard disc navigation and navigation services and to offer assistance.

The navigation services are exclusively available for Mercedes me connect markets and only in certain Mercedes-Benz models. For more information, please refer to the product world of Mercedes me connect.

In modified representations of the views in MBUX, this document can also be transferred to the MBUX 2.0 Mercedes-Benz S-Class (2020), EQS (2021), EQE (2022) and C-Class (2021).

Topics:



Overview of highlights

Highlights: Hard disc navigation & navigation services.

Hard disc navigation

- Destination entry: Via voice control, MBUX Media display and touchpad.*
- Representation: 3D map displays with search for places of interest.
- Representation in: MBUX Media display, driver display, head-up display*, traffic light view* and augmented reality*.
- Commuter route: Automatic detection and start of commuter route.
- what3words: Destination entry as what3words address.
- Send2Car: Send destination from smartphone to vehicle.
- Networking with: Route-based speed adaptation* and Mercedes me app.

*Provided that the corresponding equipment is available.

Navigation services

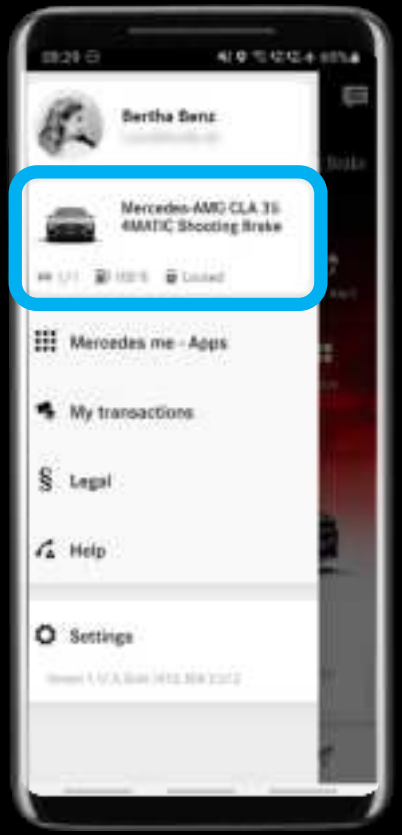
- Online map update: Automatic updating of map data.
- Live Traffic Information: Route guidance with real-time traffic data.
- Car-to-X communication: Early warning of danger spots.
- Parking for navigation: Extended parking information and functionalities.
- Weather: Current weather situation on the map.
- Weather (Online UI): Weather information and forecasts.
- Local search: Navigation to POIs/sights.

Mercedes me service activation

Mercedes me app: Service activation.

1. Open menu.

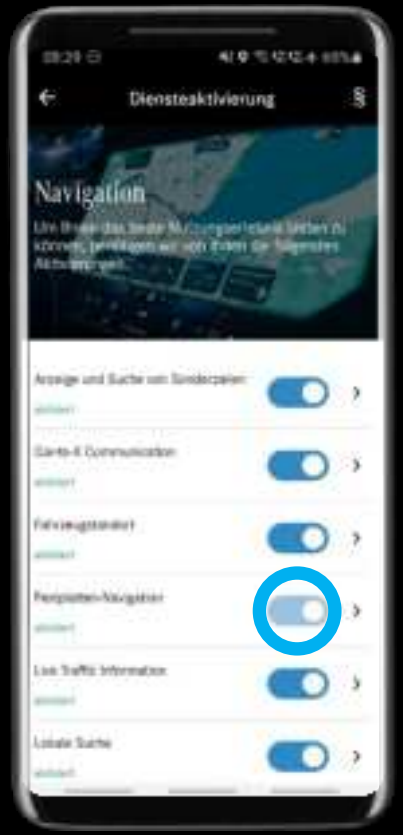
2. Select vehicle.



3. Manage services.

4. Navigation.

5. Activate service.



Hard disc navigation

Equipment: Hard disc navigation.

CHAPTER CONTENTS

- Function overview.
- User interface.
- Logic of intermediate destinations.
- Commuter route.
- Networking.
- what3words.
- Send2Car.
- Parking for app.

Required service activation in Mercedes me app:

Navigation:
- Hard disc navigation.
- Predictive navigation.
- Display and search of POIs.
- Parking for app.

Function overview: Hard disc navigation.

Useful voice commands

Hey Mercedes …

- Bring me home.
- Go to work.
- Navigate to <street, house number> in <location>.
- Set <address> as intermediate destination.
- Delete the intermediate destination.
- Show me parking spaces.
- Is <restaurant/gas station> on the route?

MBUX main functions

Main functions in MBUX:

- Route guidance.
- Intermediate destinations.
- Avoid options.
- Alternative routes.
- Simple parking space search.
- Automatic commuter route.
- Satellite and 3D map display.
- Search for: Gas stations, charging stations, points of interest, …

Main functions of the Mercedes me App

Main functions in the Mercedes me App:

- Route planning.
- Parking space search.
- Send destinations/route to vehicle (Send2Car).

User interface: Hard disc navigation.

1 Address entry

Entry of destination address for route guidance.

2 Driving recommendations

Activate / mute the voice messages.

3 Route overview

Route overview and messages.

4 Settings

Settings for functions, representations and routes.

User interface: Hard disc navigation.

1 Center map

Center the map view to own position.

2 Move map

Move map and set destinations.

3 Compass

Displays a compass including GPS data.

4 Gas station search

Shows gas stations/charging stations nearby.

5 Parking space search

Shows parking spaces nearby.

6 Map view

Changes between 2D, 3D and North alignment.

User interface: Hard disc navigation.

1 **End route guidance**

Ends route guidance.

2 **Restaurant search**

Shows restaurants on the route.

Representations: Hard disc navigation | 3D map display.

A. Normal zoom level: Only main buildings visible.

B. Higher zoom level: More detailed building representations.

Representations: Hard disc navigation | Turning.

1 Turning point

At this point is the turn.

2 Turning lane

Shows the correct lane for the turn.

3 Turning

Shows the layout and signs of the turn.

Representations: Hard disc navigation | Views.

A. Navigation view in head-up display.

B. Full screen navigation view in driver display.

C. MBUX Augmented Reality navigation view in MBUX Media display.

Feature: Logic of intermediate destinations.

Logic of intermediate destinations:

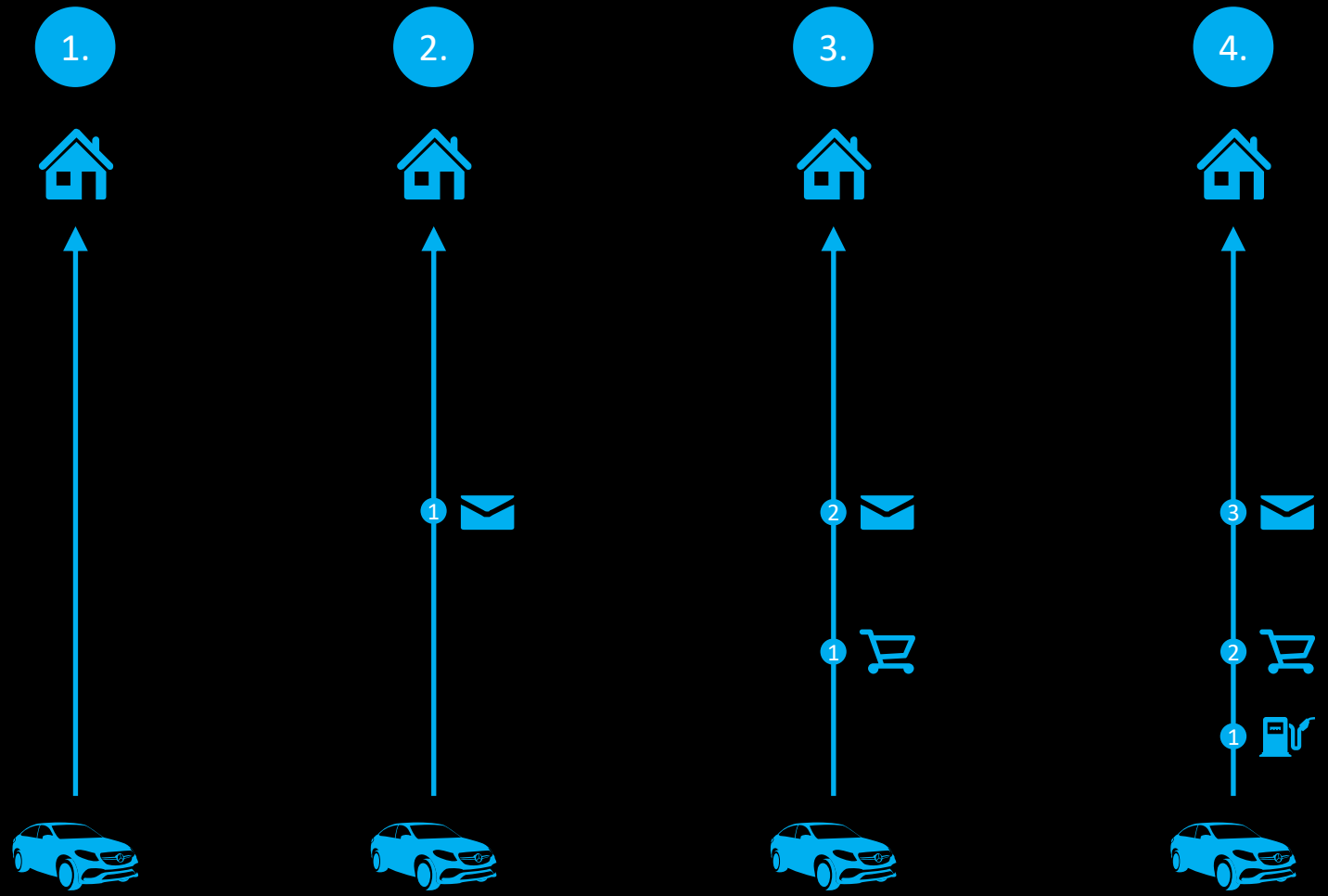
If several intermediate destinations are set during route planning or active route guidance, the latest intermediate destination initially refers to the path between your own position and the next destination.

The intermediate destinations are set in the following logic unless the intermediate destination position is adjusted:

Example:
The destinations were added successively, in the following order:

1. Drive home from work.
2. Intermediate destination: Mail.
3. Intermediate destination: Shop.
4. Intermediate destination: Gas station.

Accordingly, the gas station is first approached, then the shop...



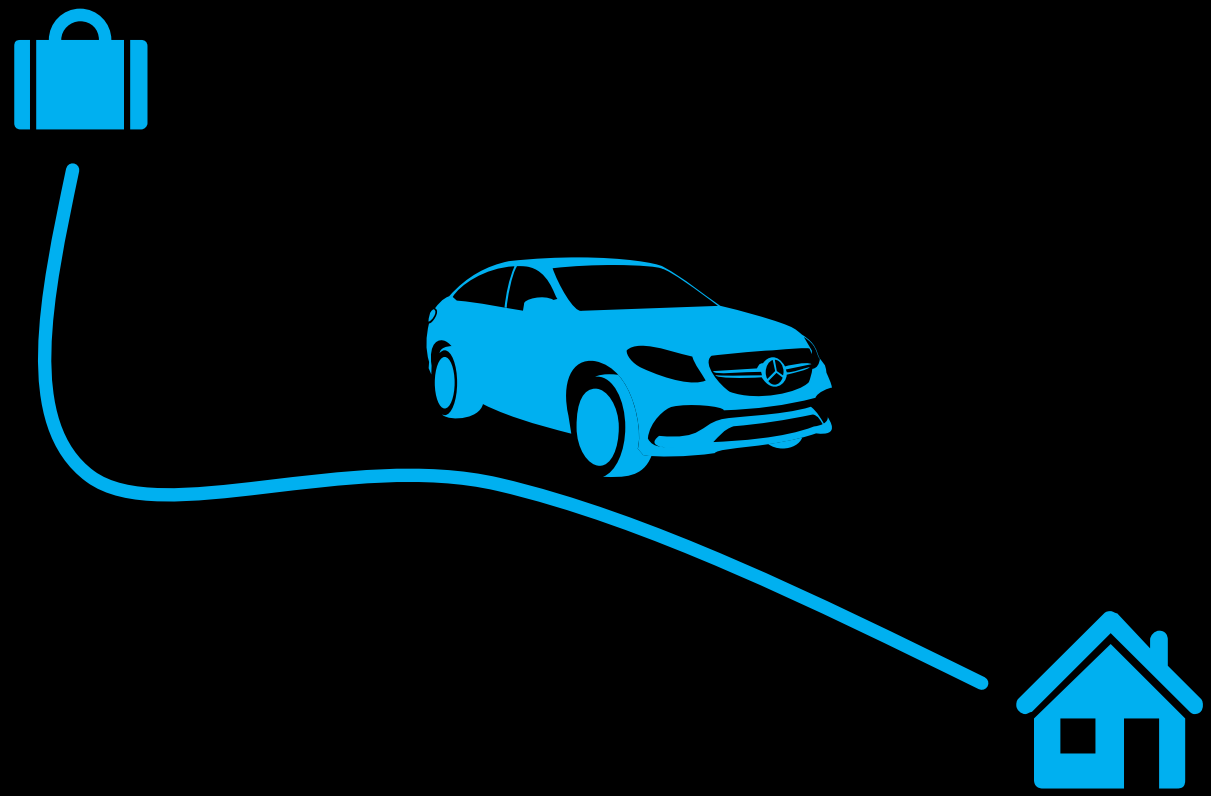
Feature: Commuter route.

Automatic commuter route:

The navigation automatically detects that the vehicle is located on the route between "Home" and "Work" or vice versa and starts route guidance independently without voice output.

If the adresses for home and work are not yet set, a query appears.

For the daily commuter route, traffic incidents on the route are reported even when driving without route guidance.



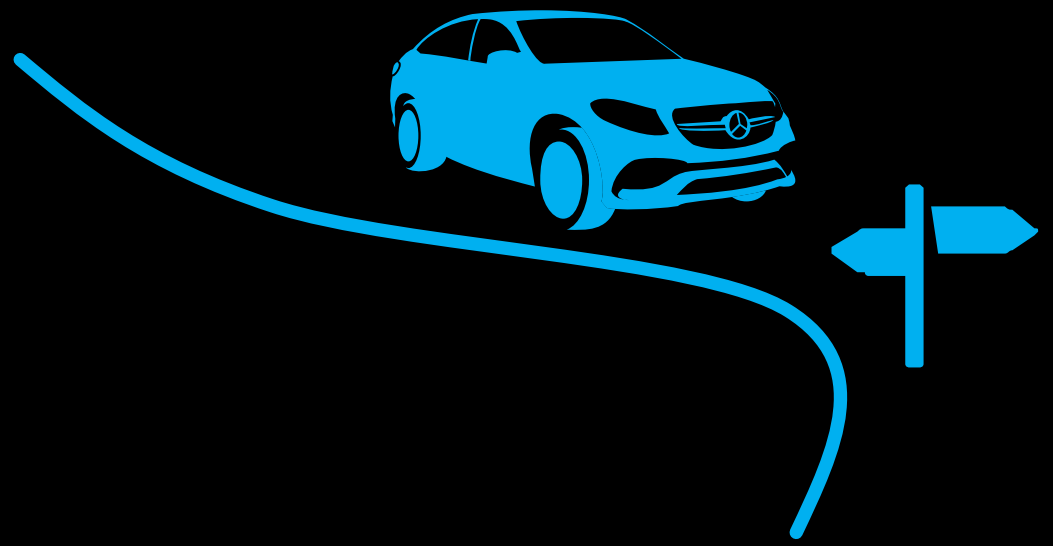
Feature: Networking.

Networking of navigation:

The navigation system is connected to driving assistance systems and the Mercedes me app.

The route-based speed adaptation is informed via navigation that the next departure is to be taken on the freeway/expressway and reduces the vehicle speed.
Even in the case of a traffic jam ("end of traffic jam" route event) detected by the navigation system, the driving speed is reduced.

The Mercedes me app simplifies mobile parking search, route planning and offers the possibility to send destinations directly to the vehicle (Send2Car).



Feature: what3words.

Three word address:

Navigate everywhere with just 3 spoken words.

what3words is the simplest type of location. All over the world, each square of 3m x 3m has a distinctive three word address.
Now every precise location – the entrance door of a restaurant, the entrance of a parking space at the airport or a remote viewpoint on the beach – has a simple and exact address that can be entered much easier than a normal street address.

Example:
"Hey Mercedes, navigate to what3words: Salt, winered, forest. "

Find three word addresses:
- Interactive online map.
- Smartphone app.

Feature: Send2Car.

Send2Car:

Send destinations/locations of interest from smartphone to vehicle navigation.

With Send2Car destination addresses can be sent to the vehicle. As soon as the vehicle is started, the destination address appears as a navigation suggestion, which can be started by a single click.

Send2Car allows you to share destinations directly from the navigation view in the Mercedes me App, as well as from other map services such as Apple Maps and Google Maps.

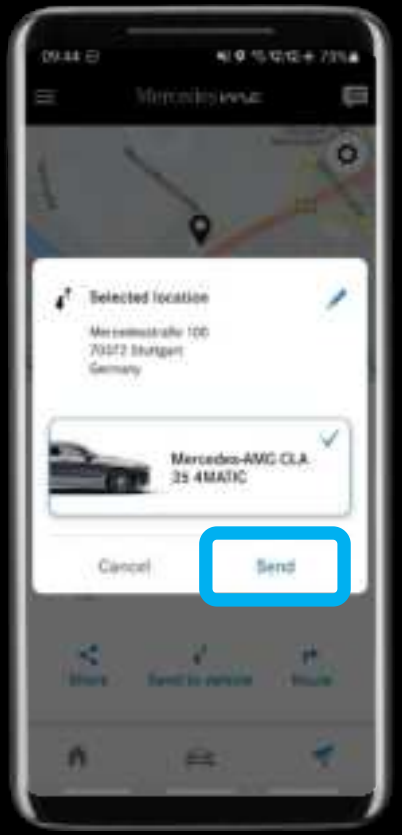
Below are examples from the Mercedes me App and Google Maps.

Feature: Send2Car | Mercedes me app.

1. Navigation view.

2. Send to vehicle.

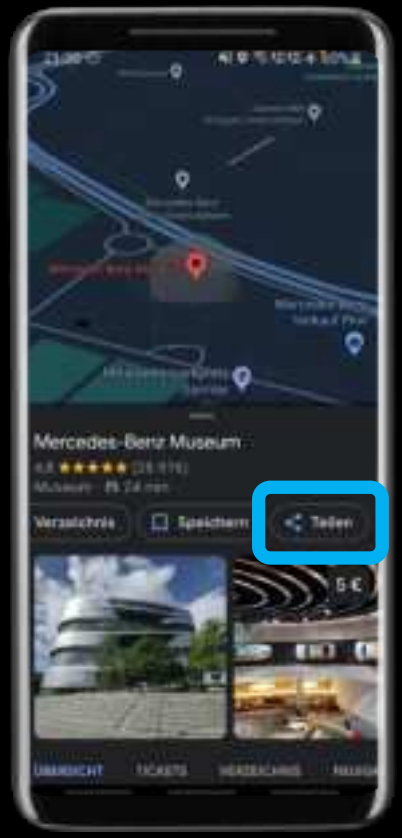
3. Send.



4. Success.

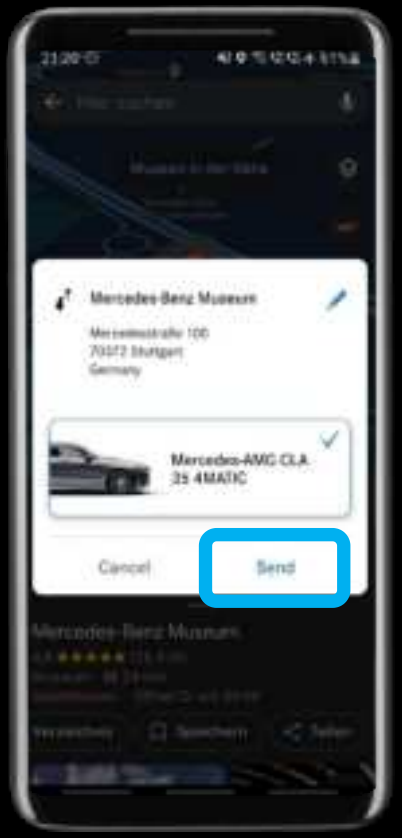
Feature: Send2Car | Google Maps.

1. Share address.



2. Mercedes me app.

3. Send.



4. Success.

Feature: Parking for app.

Parking for app:

Parking for app allows parking space search in the Mercedes me app and offers a similar range of functions as the *Parking for Navigation* service.

Parking spaces can be discovered with *parking for app*, detailed information on parking spaces can be called up and even a reservation and payment can be made.

Note:
Parking for app is part of hard disc navigation and has been summarized for clarity with the service parking for navigation in a separate chapter.

→ Jump to the explanations and presentations of parking for app.

1. Navigation view.

2. Parking.

3. Select parking lot.

Parking

Parking: Parking for navigation & parking for app.

CHAPTER CONTENTS

Required service activation in Mercedes me app:

Navigation:
- Parking for app.
- Parking for navigation.

Feature: Parking.

Parking:

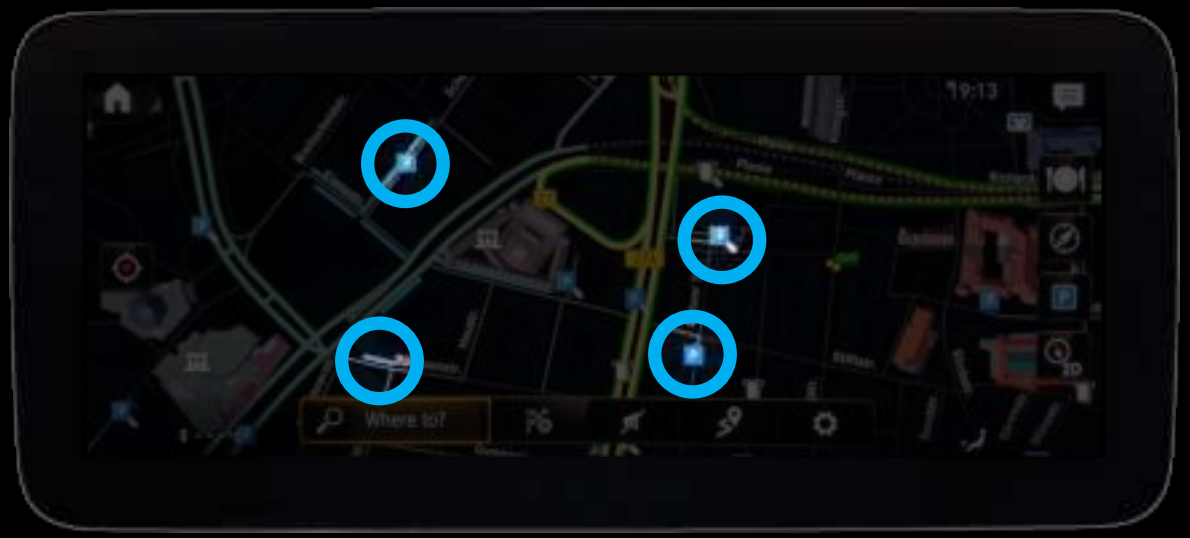
The Mercedes me App and the MBUX navigation (in combination with the Parking service *for navigation*) offer extended options and information on parking spaces.

The scope refers to the finding of parking spaces at the roadside, the extended information on parking spaces and the possibilities of booking as well as payment of parking spaces.

Package affiliation:

- Parking for app (hard disc navigation).
- Parking for navigation (navigation services).

Feature: Displays | Parking for navigation.

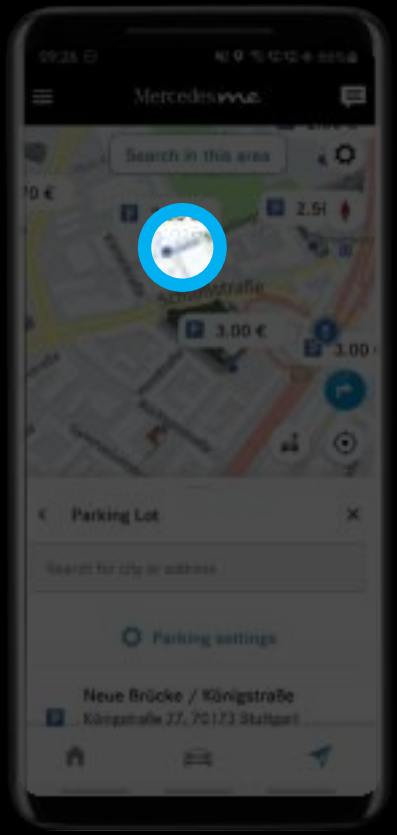


Display of parking information:

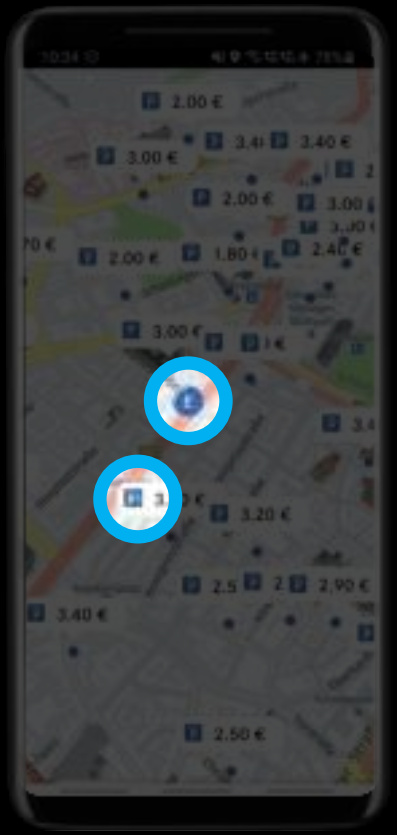
- Parking
- Parking with display of occupancy
- Parking at roadside with display of occupancy
- Parking garage
- Parking garage with display of occupancy
- Parking and other entries (visible at higher zoom level)
- Parking garage with access & pay option
- Probability of a free parking spot at the roadside (visible at higher zoom level)
- A parking space has become free through a previously parked Mercedes (On-Street Realtime)

Feature: Displays | Parking for app.

A. Standard view.



B. Full screen view.
(Click on map)



Display of parking information:

- Parking (zoom in for more information)
- Parking (incl. Price for the first hour, if available)
- Parking garage
- Parking garage with access & pay option
- Probability of free parking at the roadside (visible at higher zoom level)
- A parking space has become free through a previously parked Mercedes (On-Street Realtime)

Feature: Off-Street Parking | Parking for navigation.

Off-Street Parking:

Off-Street Parking can be used to call up detailed information on parking lots and parking garages.

This includes the following information:*

- Current occupation and trend.
- Parking space volume.
- Price information.
- Maximum height.
- Opening hours.
- Price information.
- Payment options.

*If this information is available on the parking lot/parking garage.

Feature: Off-Street Parking | Parking for app.

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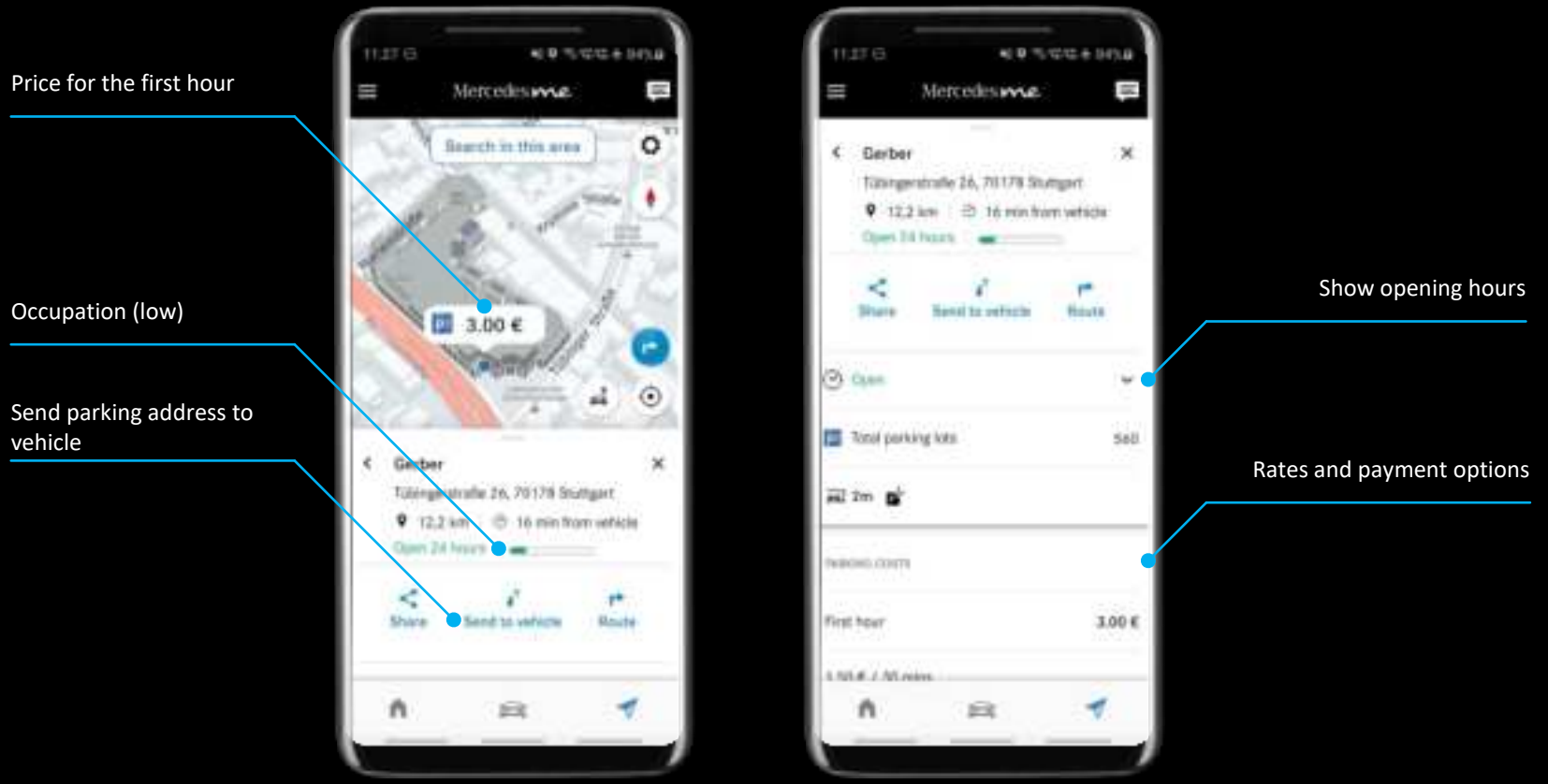
This includes the following information:*

- Current occupation.
- Parking space volume.
- Price information.
- Maximum height.
- Opening hours.
- Price information.
- Payment options.

*If this information is available on the parking lot/parking garage.

A. Click on parking space.

B. Detailed information.



Feature: On-Street Parking | Parking for navigation.

On-Street Parking:

On-Street Parking can be used to display forecasts of the probability of a free parking space at the roadside.

The probability of a free parking space is shown on the navigation map via the blue lines. These are recorded e.g. up to a certain speed via the sensors of passing Mercedes passenger cars. In this case, garage entrances and parking bans can also be incorrectly detected as parking spaces, therefore the forecasts only form a probability over free parking spaces.

Note:
In order to see the blue lines, zoom in on the map view.

Small probability

Medium probability

Feature: On-Street Parking | Parking for app.

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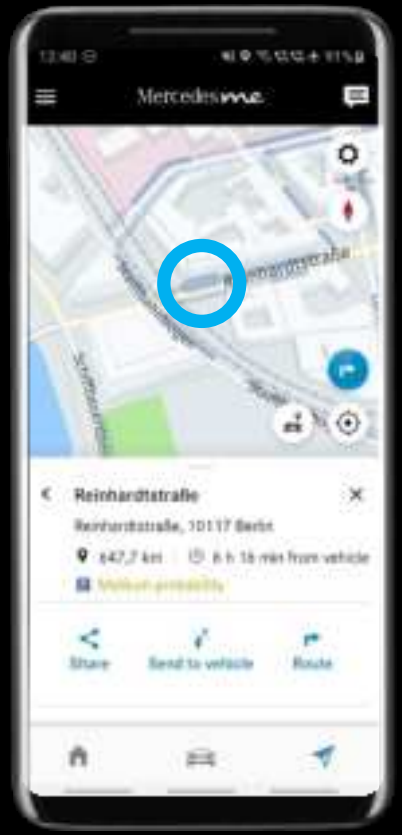
The probability of a free parking space is shown on the navigation map via the blue lines. These are recorded e.g. up to a certain speed via the sensors of passing Mercedes passenger cars. In this case, garage entrances and parking bans can also be incorrectly detected as parking spaces, therefore the forecasts only form a probability over free parking spaces.

Note:
In order to see the blue lines, zoom in on the map view.

Small probability

Medium probability

Click on parking line.



Feature: On-Street Realtime | Parking for navigation.

On-Street Realtime:

With *On-Street Realtime* it is shown for a minute on the navigation map that a previously parked Mercedes has left a parking space.

The freed up parking space is displayed via a round parking space symbol, for a duration of one minute on the navigation map. Clicking on the symbol shows in the detailed view, since when the parking space is free and how large it is.

Feature: On-Street Realtime | Parking for app.

On-Street Realtime:

With *On-Street Realtime* it is shown for a minute on the navigation map that a previously parked Mercedes has left a parking space.

The freed up parking space is displayed via a round parking space symbol, for a duration of one minute on the navigation map. Clicking on the symbol shows the size of the parking space in the detailed view.

The white circle around the symbol serves as an indicator for how long the parking lot is already free and becomes less and less in 15 second steps. A full circle indicates a recently freed up parking space.

Click on parking space.

Feature: Payment service for parking.

Payment service for parking:

Transactions on supported parking spaces can also be processed digitally from the vehicle via the Mercedes me App and MBUX Navigation.

The scope refers to the payment of parking lots for supported parking spaces, as well as the reservation of parking spaces.

Prerequisite:
The payment service must be set up and a credit card must be stored in the Mercedes me App beforehand. The payment service is currently only available in Germany and will be rolled out to other markets soon.

Below is the setup process via the Mercedes me app.

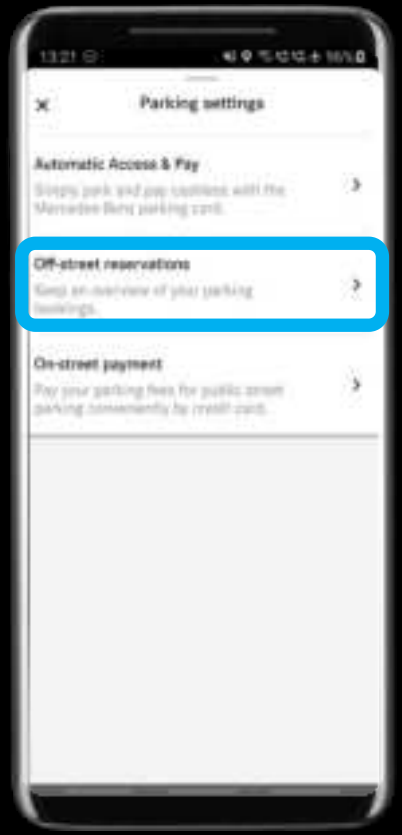
Feature: Payment service for parking | Setup.

1. Navigation view.

2. Parking.

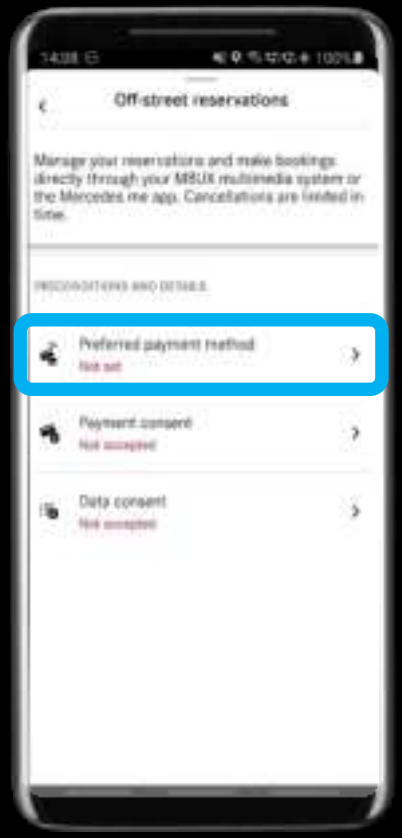
3. Parking settings.

4. Select any service.

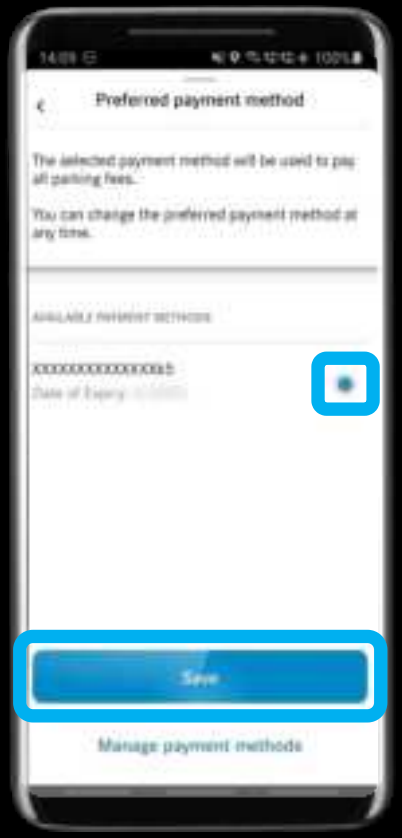


Feature: Payment service for parking | Setup.

5. Preferred payment method.



6. Select and save credit card.

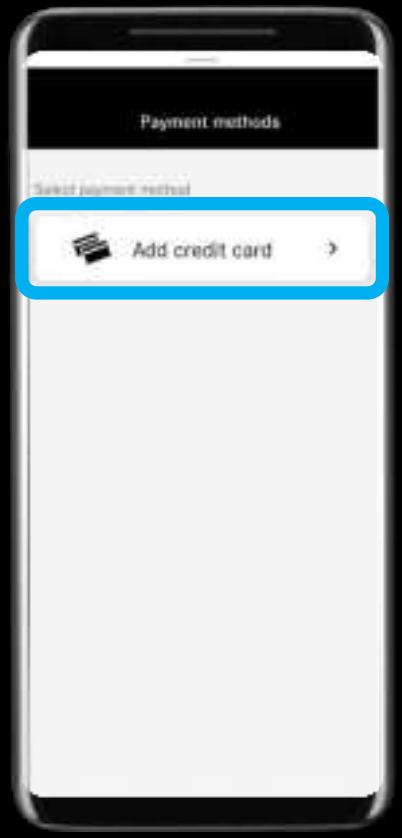


Alternative view:

6a. Manage payment methods.

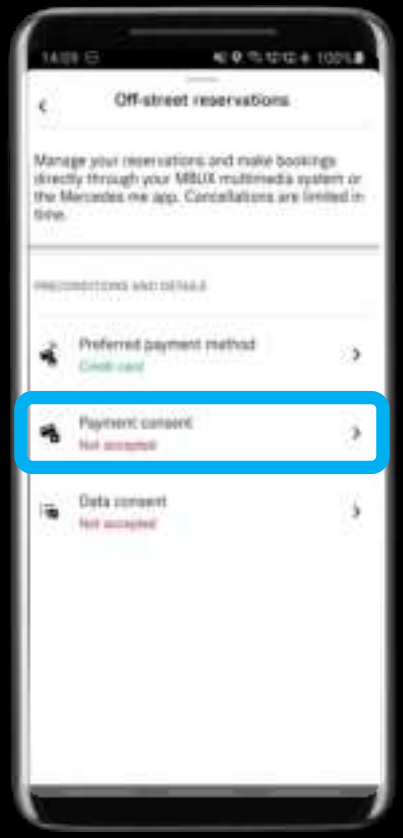
Alternative view:

6b. Add credit card.
(Then continue with step 6)

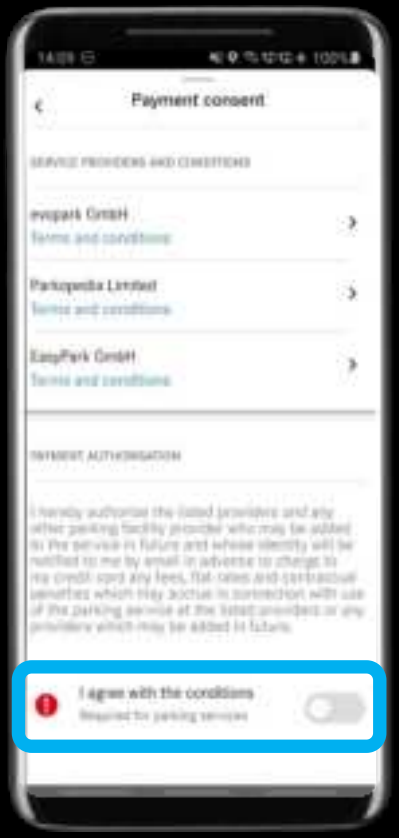


Feature: Payment service for parking | Setup.

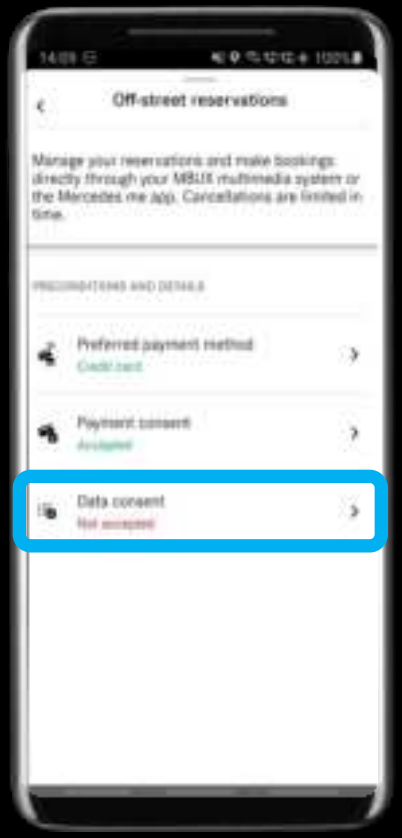
7. Consent for payments.



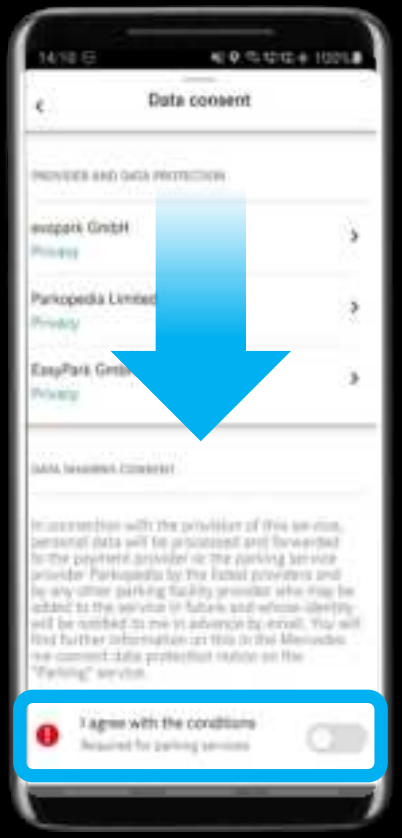
8. Agree to the conditions.



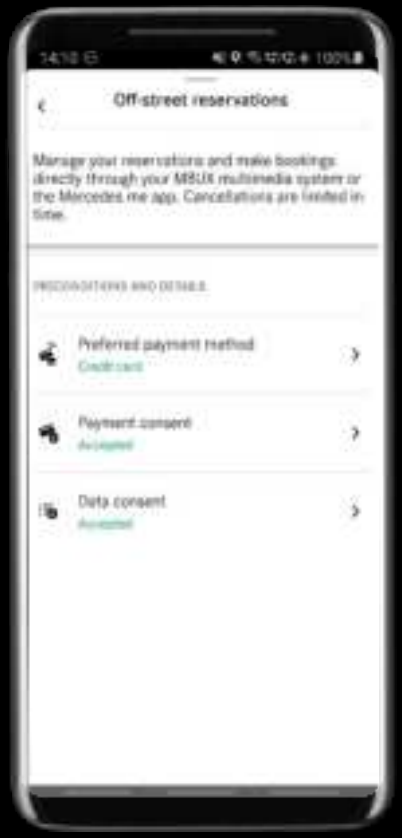
9. Consent for data.



10. Agree to the conditions.



11. The setup is complete.



Feature: Access & Pay.

Access & Pay:

With the *Mercedes-Benz parking card*, it is possible to enter supported parking spaces/parking garages and leave without needing to visit the parking machine.

The gate recognizes the Mercedes-Benz parking card and automatically opens without a ticket being drawn. At the exit, the gate also detects the parking card and automatically opens. Parking fees are automatically charged via a notification on the MBUX Media display, whereby a handling fee of €0.50 applies.

Prerequisite:

- *Deposited payment method.*
- *Consent for payments.*
- *Consent for data.*

Below is the procedure for ordering the free Mercedes-Benz parking card via the Mercedes me app.

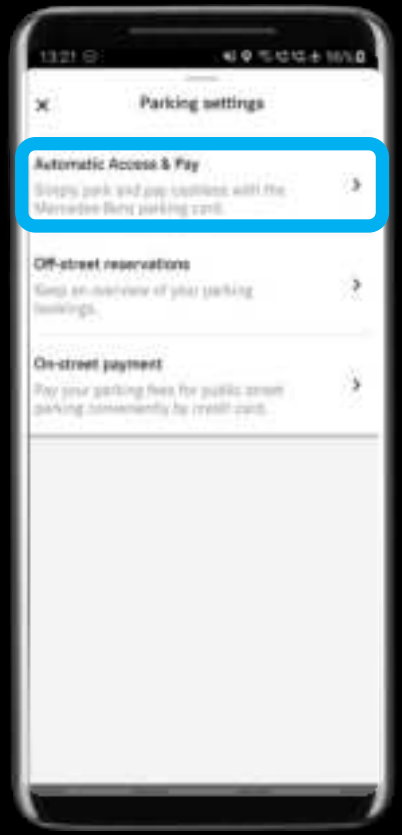
Feature: Access & Pay | Order.

1. Navigation view.

2. Parking.

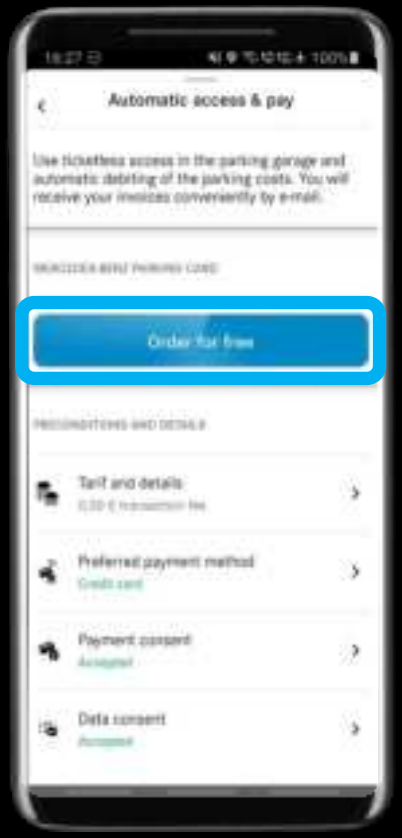
3. Parking settings.

4. Select Access & Pay.



Feature: Access & Pay | Order.

5. Order for free.



6. Check shipping information and order.

7. Parking card successfully ordered.

Feature: On-Street Payment.

On-Street Payment:

With *On-Street Payment* participating parking spaces on the roadside can be paid directly from the car, without having to get a ticket at the parking machine.

To do this, simply find a parking space and start the parking time directly from the MBUX navigation or Mercedes me app.
When leaving, a notification appears at the start of the vehicle, whether the parking period can be finished, which triggers the payment for the parking time.

Prerequisite:

- *Printed parking vignette visible in vehicle.*
- *Stored license plate number in Mercedes me app.*
- *Deposited payment method.*
- *Consent for payments.*
- *Consent for data.*

The following is the procedure for On-Street Payment.

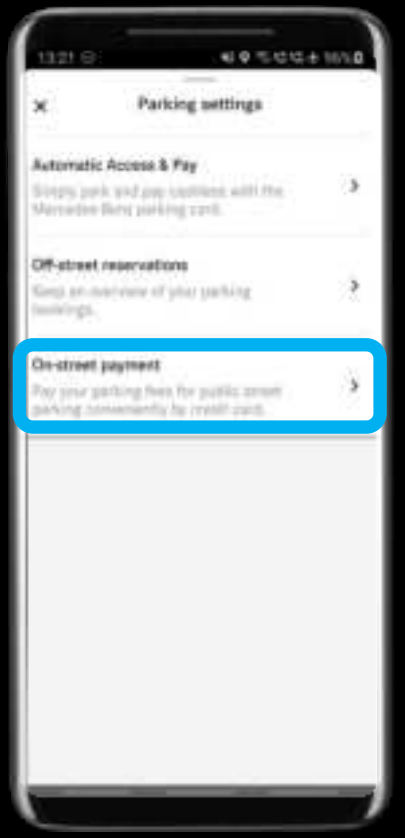
Feature: On-Street Payment | Parking vignette from the Mercedes me app.

1. Navigation view.

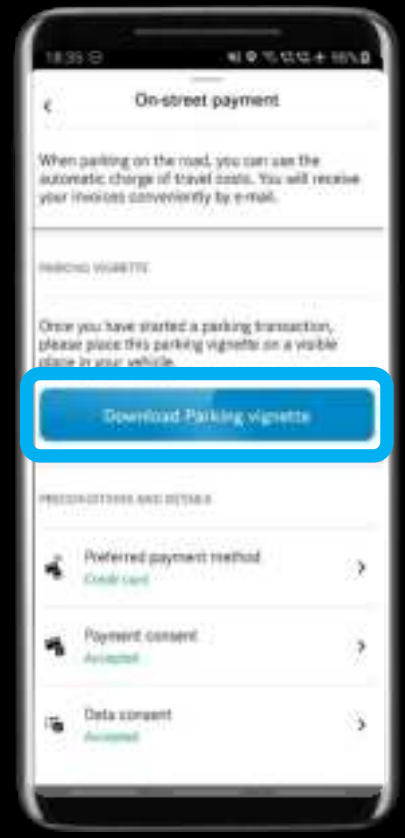
2. Parking.

3. Parking settings.

4. On-street payment.



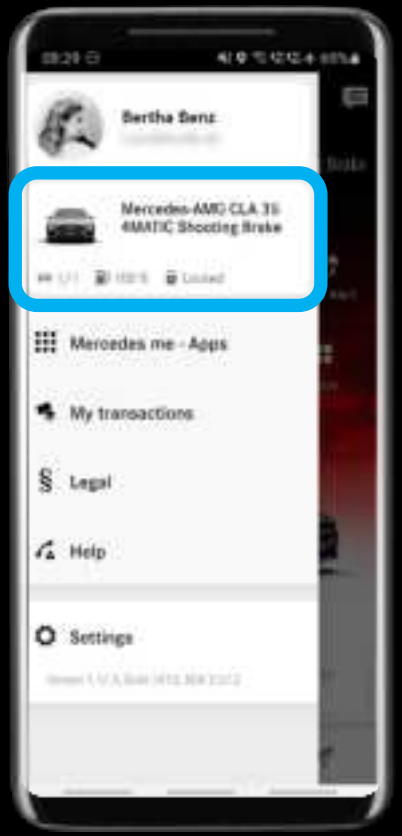
5. Download and print parking sticker.



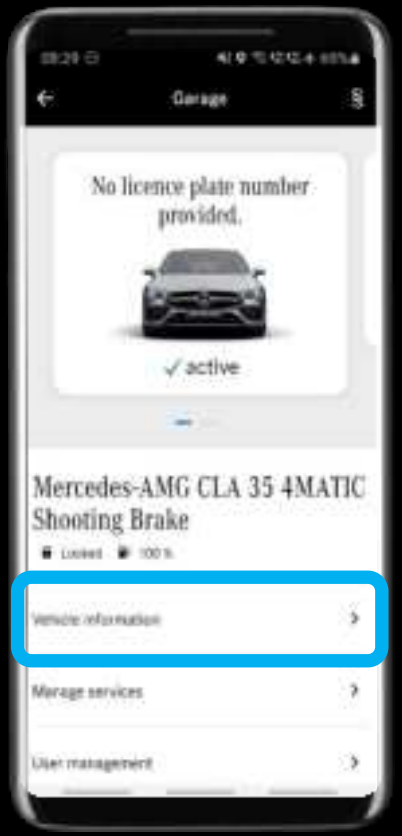
Feature: On-street payment | License plate number in Mercedes me app.

1. Open menu.

2. Select vehicle.

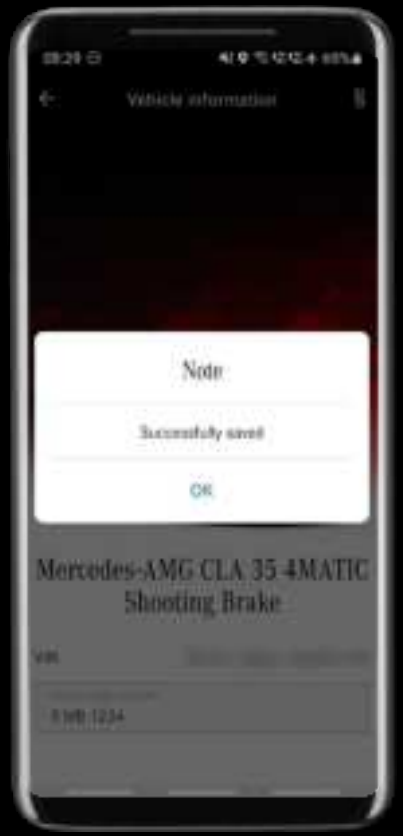


3. Vehicle information.



4. Enter license plate number.

5. Saved successfully.



Feature: On-Street Payment | Parking for navigation.

1. Find matching parking space.

2. Select Pay For Parking Space.

Feature: On-Street Payment | Parking for navigation.

3. Enter your Mercedes me PIN.

4. Start parking time.

Feature: On-Street Payment | Parking for navigation.

5. Parking time successfully started.

Feature: On-Street Payment | Parking for navigation.

6a. End parking time via notification on vehicle startup.

Alternatively

6b. End parking time via notification view.

Feature: On-Street Payment | Parking for navigation.

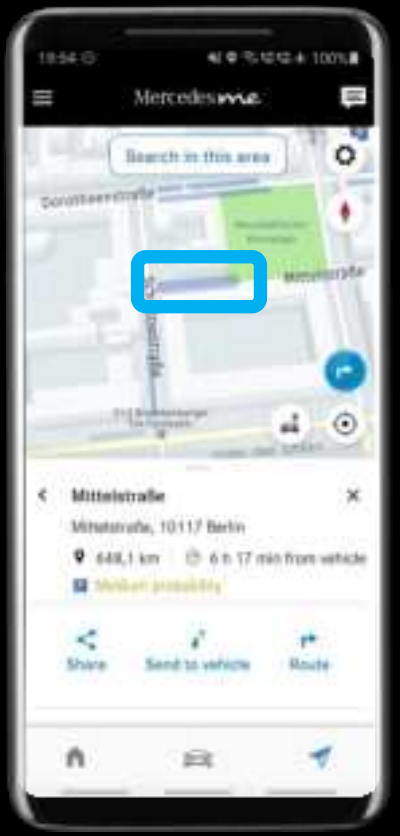
7. Parking successfully completed.

Feature: On-Street Payment | Parking for App.

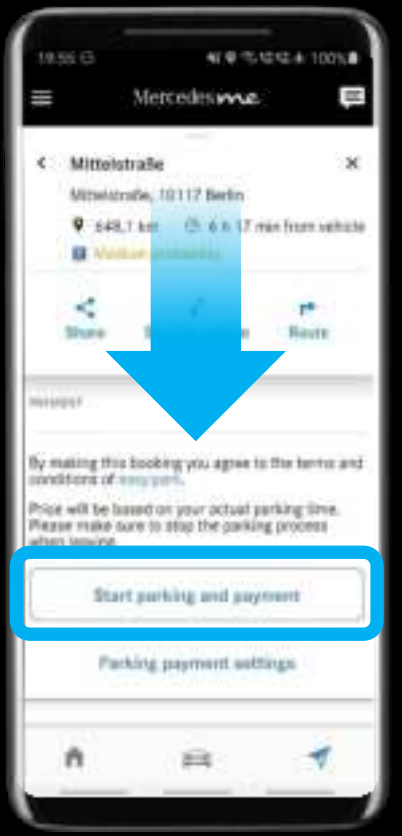
1. Navigation view.

2. Parking.

3. Find parking space.



4. Start parking.
(If supported)

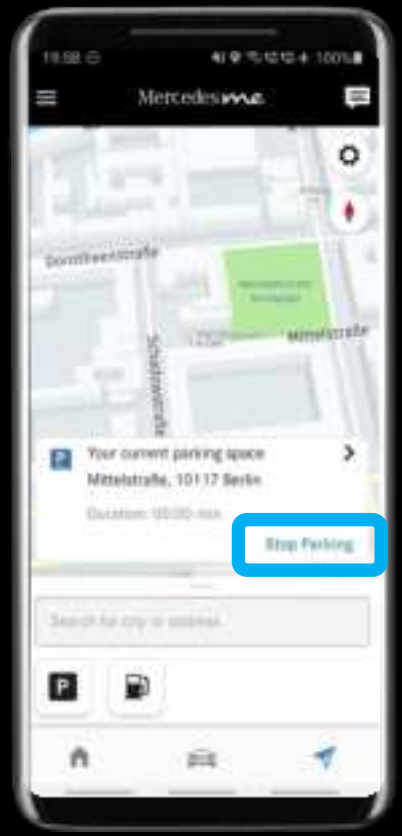


5. Parking successfully started.

Feature: On-Street Payment | Parking for App.

6. Stop parking via navigation view.

7. Parking stopped successfully.



Feature: Off-Street Booking.

Off-Street Booking:

Off-Street Booking can be used to reserve parking spaces, up to 6 days in advance, at participating parking spaces and parking garages.

To do this, simply call up the parking space in the MBUX navigation or Mercedes me app and reserve it using the corresponding button.

Prerequisite:

- *Deposited payment method.*
- *Consent for payments.*
- *Consent for data.*

Below is the procedure for Off-Street Booking, which is similar to On-Street Payment in the next steps.

Feature: Off-Street Booking | Parking for navigation.

1. Select Reserve parking.

2. Define start time of booking.

Feature: Off-Street Booking | Parking for navigation.

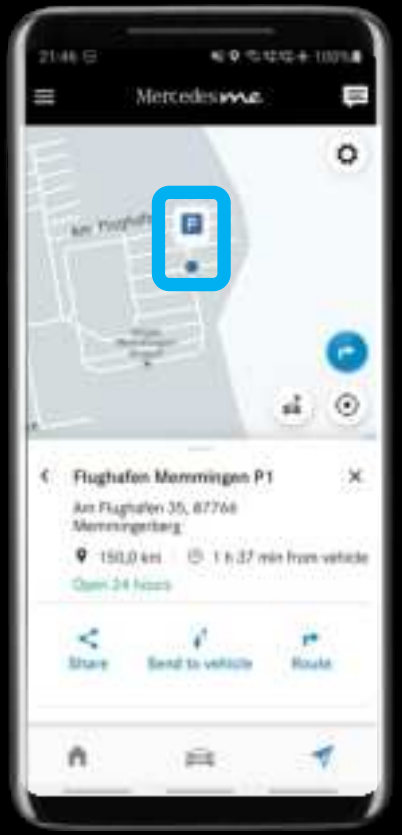
3. Determine and book the end date of the booking.

Feature: Off-Street Booking | Parking for app.

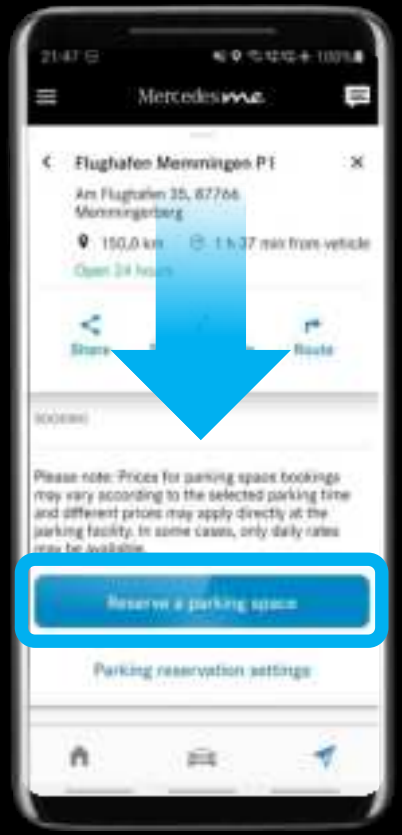
1. Navigation view.

2. Parking.

3. Find parking space.

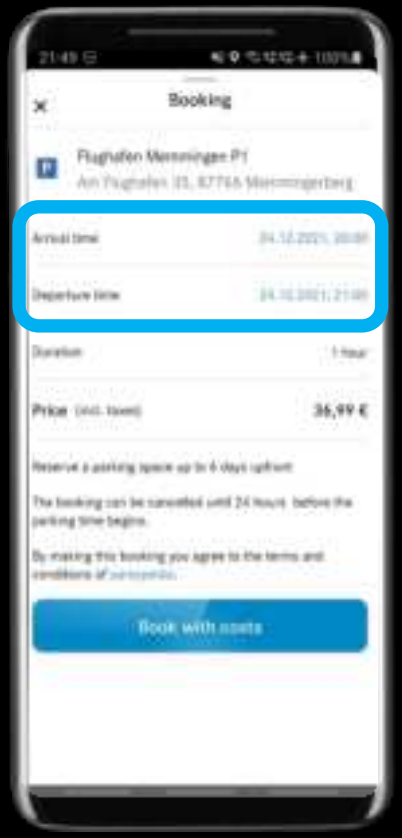


4. Parking space reservation.

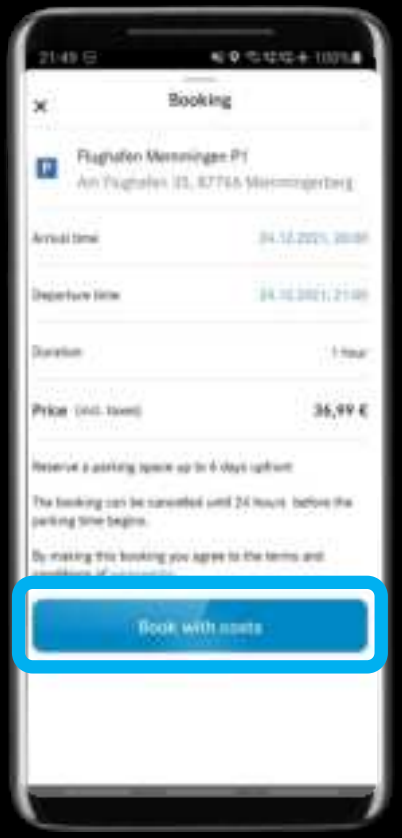


Feature: Off-Street Booking | Parking for app.

5. Set parking time.



6. Book reservation.



Navigation services

Navigation service: Navigation services.

CHAPTER CONTENTS

Required service activation in Mercedes me app:

Navigation:
- Parking for navigation.
- Weather.
- Local search.

Infotainment:
- Weather (Online UI).

Feature: Parking for navigation.

Parking for navigation:

Parking for navigation allows the search for a parking space directly in the navigation map and offers a similar range of functions as Parking for app.

Parking spaces can be discovered, detailed information on parking spaces can be called up and even a reservation and payment can be made.

Note:
The Parking service for navigation is part of navigation services and has been combined with Parking for app in a separate chapter.

→ Jump to the explanations and representations of parking for navigation.

Feature: Weather.

Weather:

The service *Weather* shows on the map (if far enough zoomed out), where the sun shines, the sky is cloudy or rain falls.

Further information on the weather forecast for the respective location is displayed via voice control or with a click on the respective weather symbol.

The following information is available:
- Current weather situation of the place.
- Hourly forecast.
- 5-day forecast including rainfall.

The weather forecast can also be called up via voice command.

Example:
"Hey Mercedes, how is the weather in Stuttgart?"

Feature: Weather | "Hey Mercedes, how is the weather in Stuttgart? ".

A. Current weather conditions and hourly forecast, as well as a short announcement.

B. Navigate to the right for detailed view.

Feature: Weather (Online UI).

Weather (Online UI):

MBUX *"Wetter (Online UI)"* shows current weather information and forecasts in the MBUX Media display.

You can search for any location or call up the local weather forecast. The detailed view also contains information about ski resorts in the area.

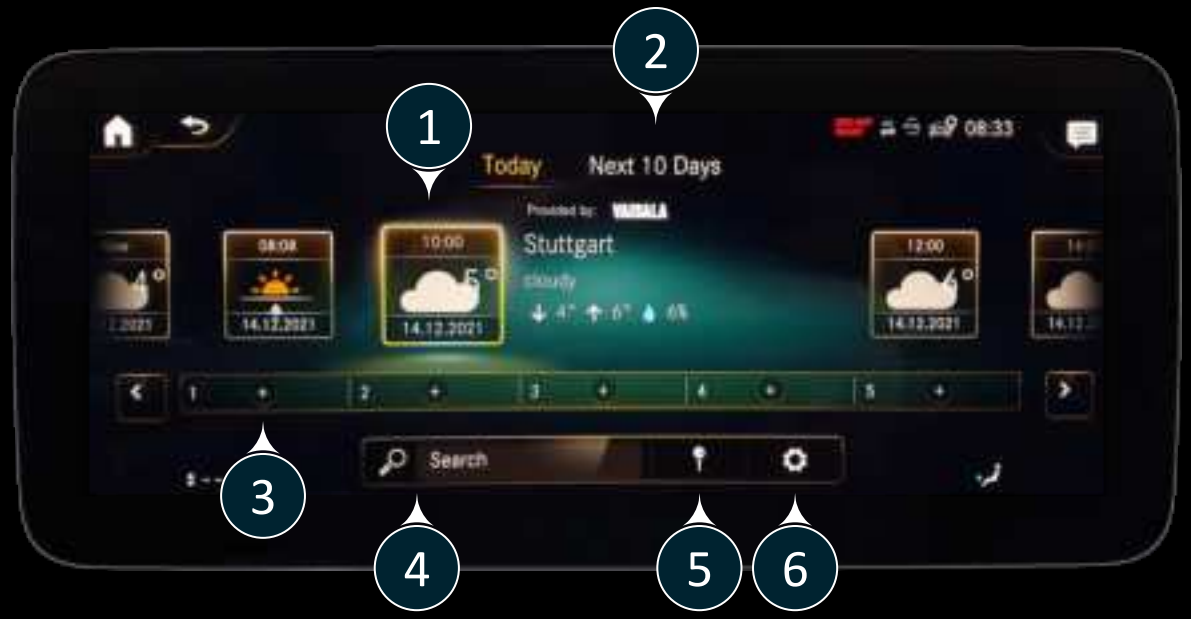
The favorites bar allows a quick call of weather forecasts of saved locations.

Feature: Weather (Online UI) | Location.

1. Navigate *to Apps* and open the folder.

2. Swipe right to the *weather* symbol and open it.

Feature: Weather (Online UI) | User interface.



1 Detailed view

Shows more detailed information on the entry when clicking on it.

2 10 day prediction

Shows the forecast for the next 10 days.

3 Favorites

Saves the called location to position 1.

4 Search

Search for places for weather forecast.

5 Weather display

Selection for local weather or for route destination.

6 Scale setting

Selection for information in Celsius or Fahrenheit.

Feature: Weather (Online UI) | User interface – Detail view.

A. *Weather details* about the location.

B. General *ski info* on ski places in your area.

Feature: Local search.

Local search:

The *Local Search* service allows to find places of interest like restaurants, museums, etc.

For example, the Mercedes-Benz Museum can be found and navigated to via voice command without knowing the exact address.

In the more detailed view, information about opening times, price levels and a rating is displayed in addition to the address and navigation option (if available).

The given telephone number can be called directly at the press of a button.

A place can also be saved as a favorite, to be found quicker afterwards.

Online map update

Navigation service: Online map update.

CHAPTER CONTENTS

Required service activation in Mercedes me app:

Navigation: • Online map update.

Feature: Online map update.

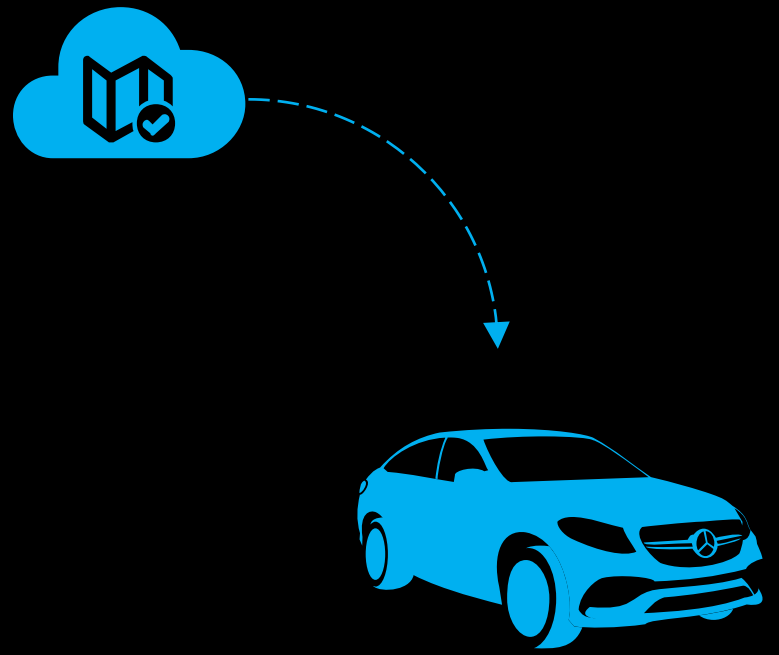
Online map update:

The *online map update* automatically updates the navigation data.

For the region in which your Mercedes is registered, the map material is kept up to date via the mobile telephone network.

The incremental update is only downloaded and installed while MBUX is switched on and if the vehicle has a sufficient mobile connection. There may therefore be restrictions in underground garages and areas with low network expansion.

The data and Mercedes me symbol in the MBUX start screen indicates a sufficient reception:



Feature: Manual map update.

Manual map update:

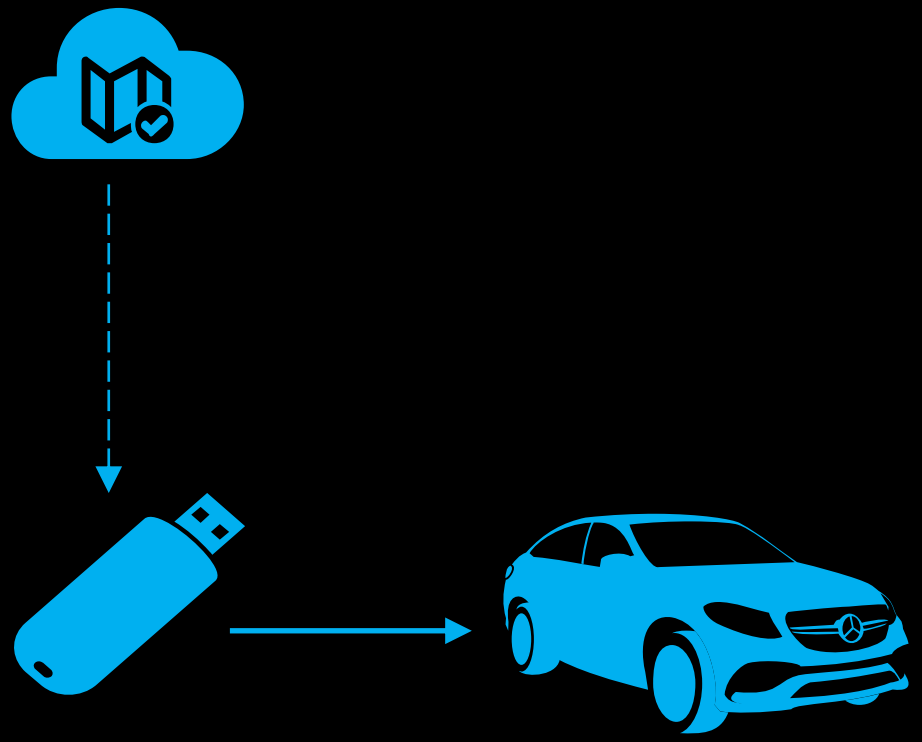
Download navigation map data for your country manually and install them in the vehicle.

Your Mercedes already has a pre-installed version of the navigation map data for your contry ex factory.

The navigation map data for all countries can (additionally or alternatively) be updated via a download in the Mercedes me Portal and an installation in the multimedia system.

Note: The voice recognition data of your navigation system can only be updated via a manual map update.

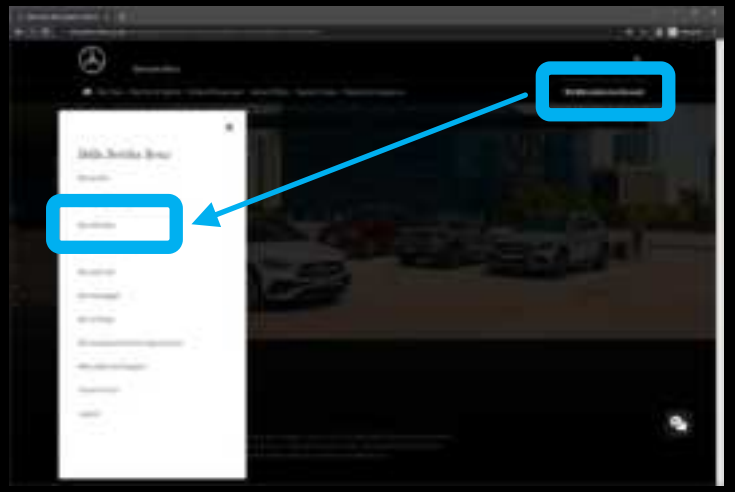
Below is a representation of the procedure.



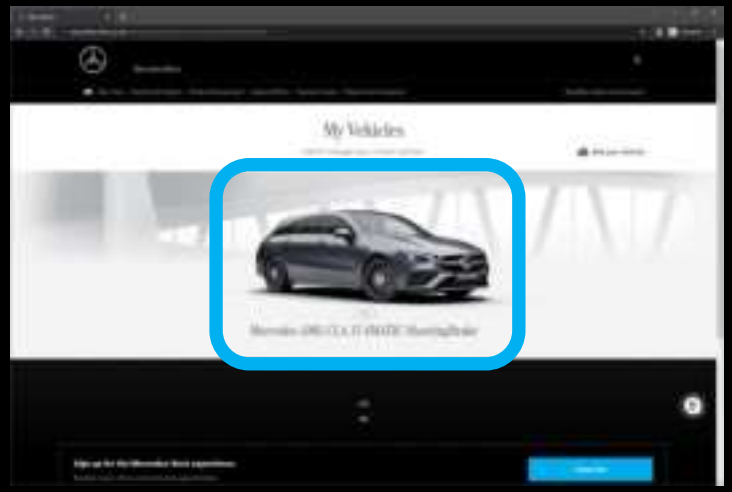
Feature: Manual map update | Download.

1. Login in the Mercedes me Portal.

2. Call *up my vehicles* in the Mercedes me account.

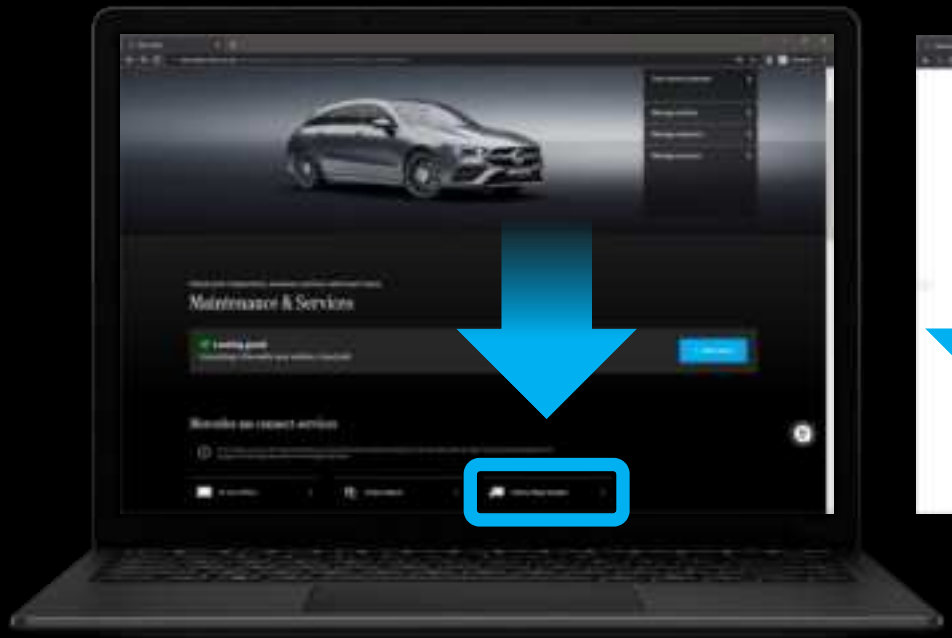


3. Select vehicle.

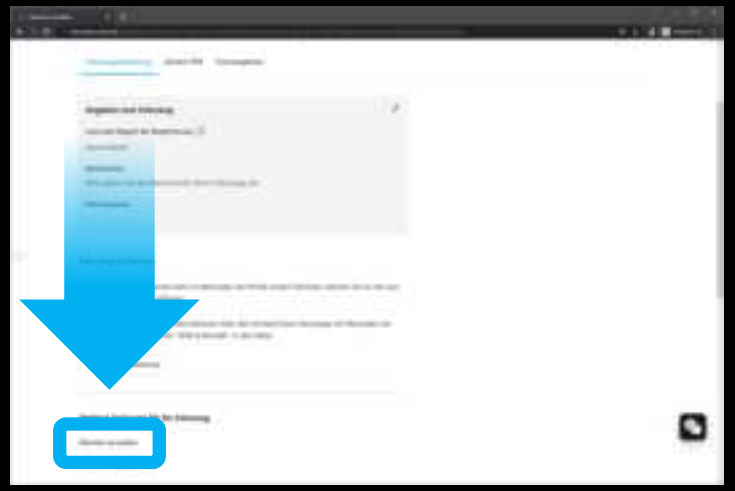


Feature: Manual map update | Download.

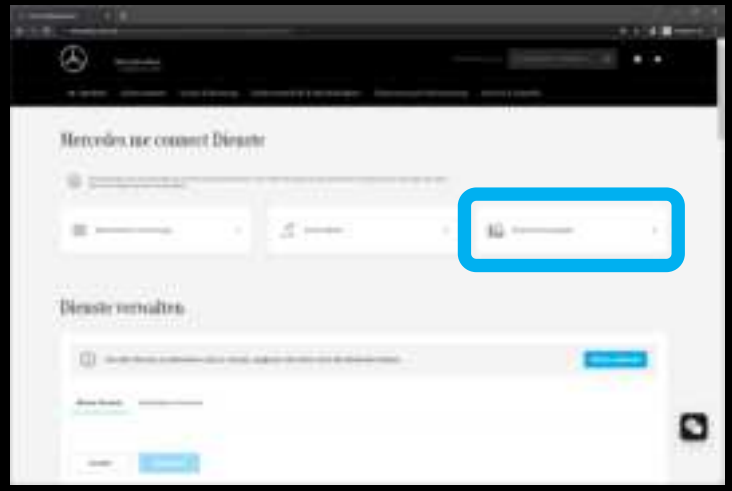
4. Open *online map update*.



Alternative view:
4a. Open *Manage services*.

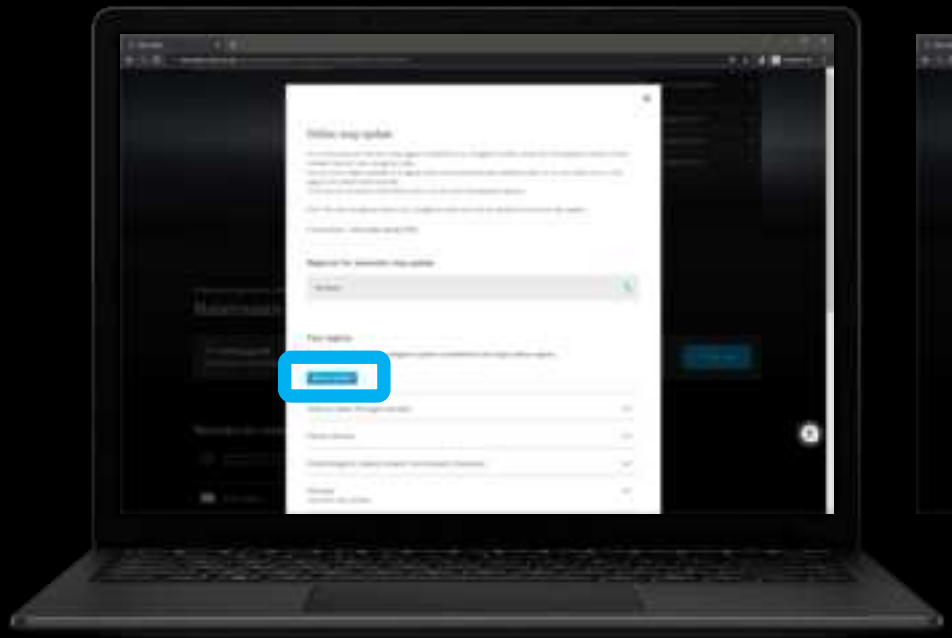


Alternative view:
4b. Open *online map update*.

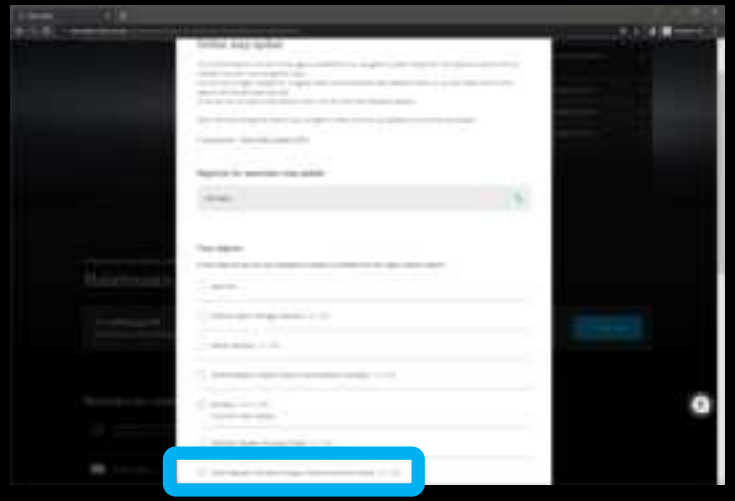


Feature: Manual map update | Download.

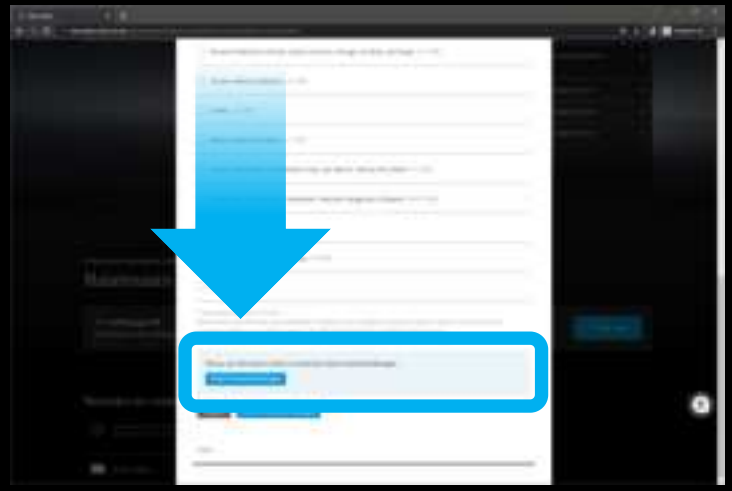
5. Select *manual update*.



6. Select desired region(s).

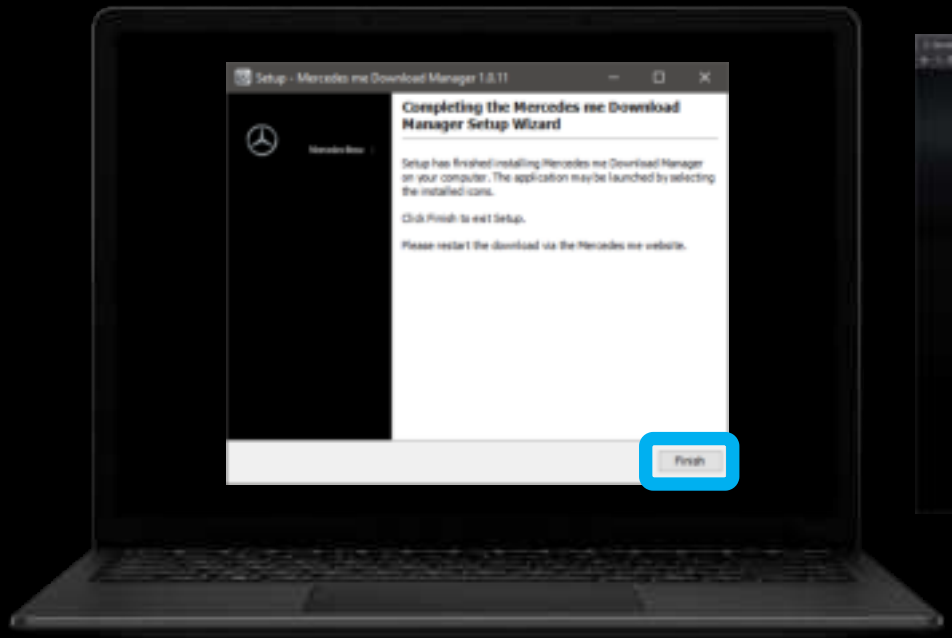


7. Select *install Download Manager* and perform installation.

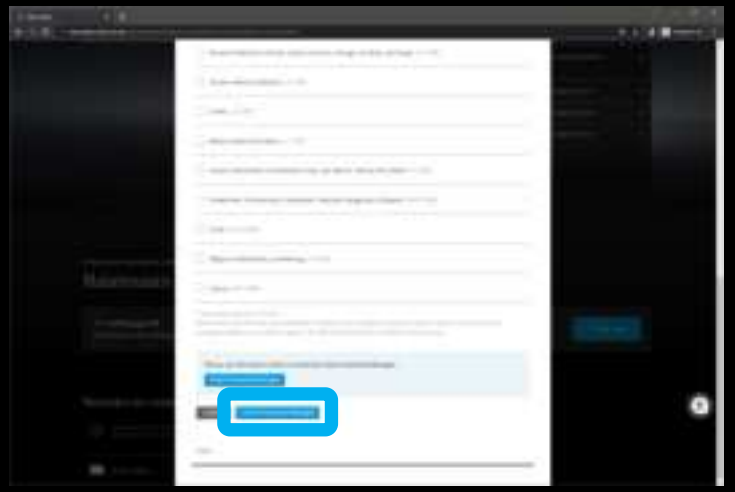


Feature: Manual map update | Download.

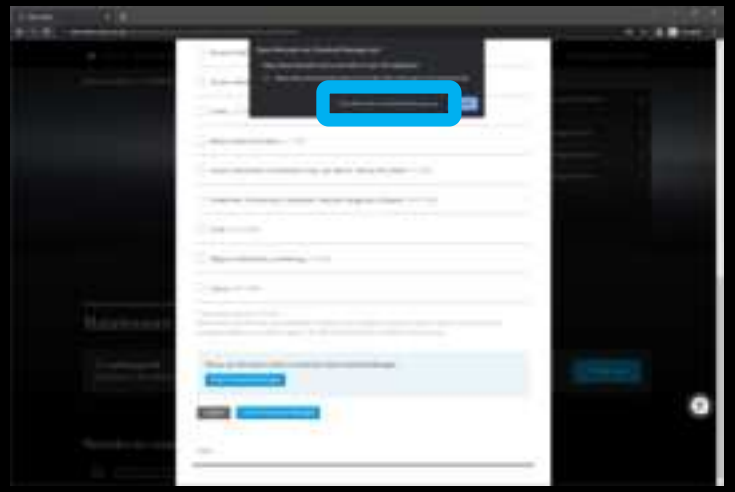
8. Complete Download Manager installation.



9. Select *Start Download Manager*.



10. *Mercedes me Download* Manager.exe opens.
(For MAC-OS the ending is: …Download Manager.app)
(If the message doesn't appear: *Update page.)*

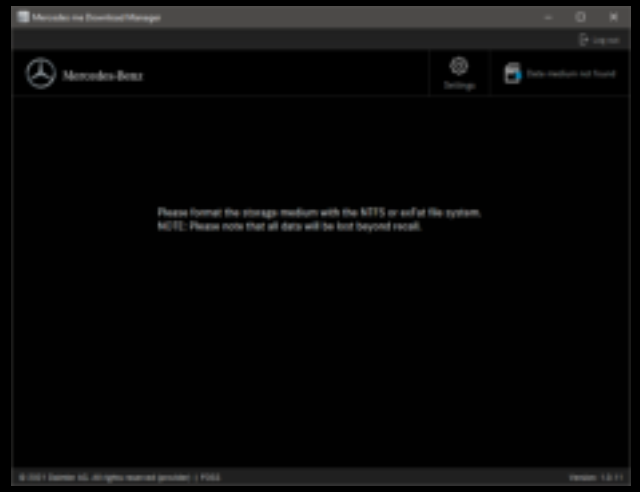


Feature: Manual map update | Download.

11. Mercedes me Download Manager is open: Insert USB stick now.

Alternative view:

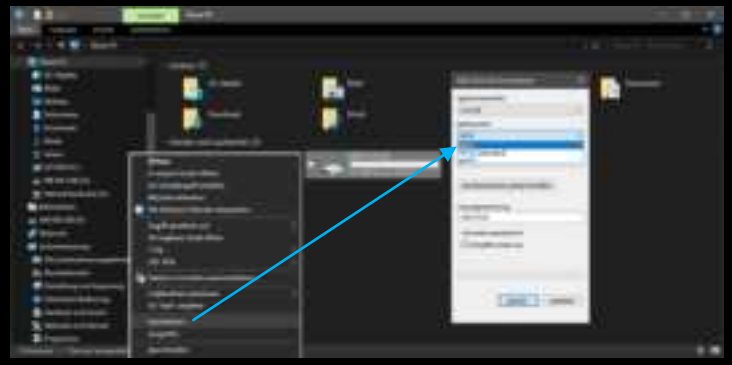
11a. The USB stick must be formatted if the wrong file system is used.



Alternative view:

11b. Format USB stick on NTFS or exFAT.

(Windows: Right click on USB stick → Format…)

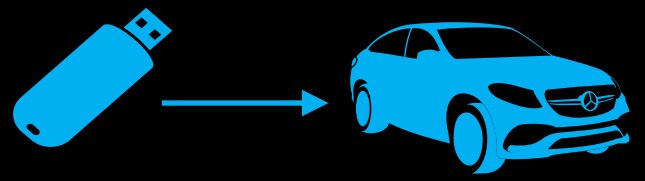


Feature: Manual map update | Download.

12. The map update will automatically start the downloaded to the USB stick.

13. The update has been successfully downloaded and the application can be closed.

14. USB stick is now ready to install the updated map data in the vehicle.



Feature: Manual map update | Installation.

1. Start MBUX and insert USB stick.
   (Please use the multimedia USB port)

2. Open MBUX notification for software update.

Feature: Manual map update | Installation.

3. Select software update.

4. Select the downloaded map update.

Feature: Manual map update | Installation.

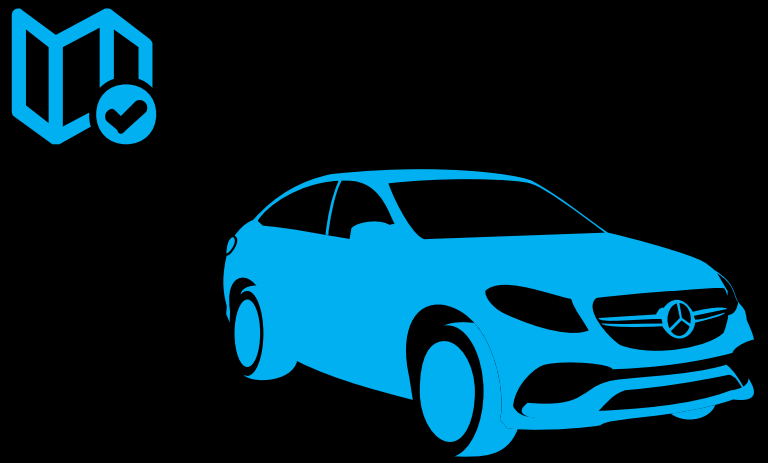
5. Start update by clicking ‘Update’.

6. Map update is being installed.
(MBUX must remain switched on for this purpose)

Feature: Manual map update | Installation.

7. To complete the map update, restart the system.

6. The map update is now completed.



Live Traffic Information

Navigation service: Live Traffic Information.

CHAPTER CONTENTS

- Live Traffic Information.
- Car-to-X Communication.

Required service activation in Mercedes me app:

Navigation:
- Live Traffic Information.
- Car-to-X communication

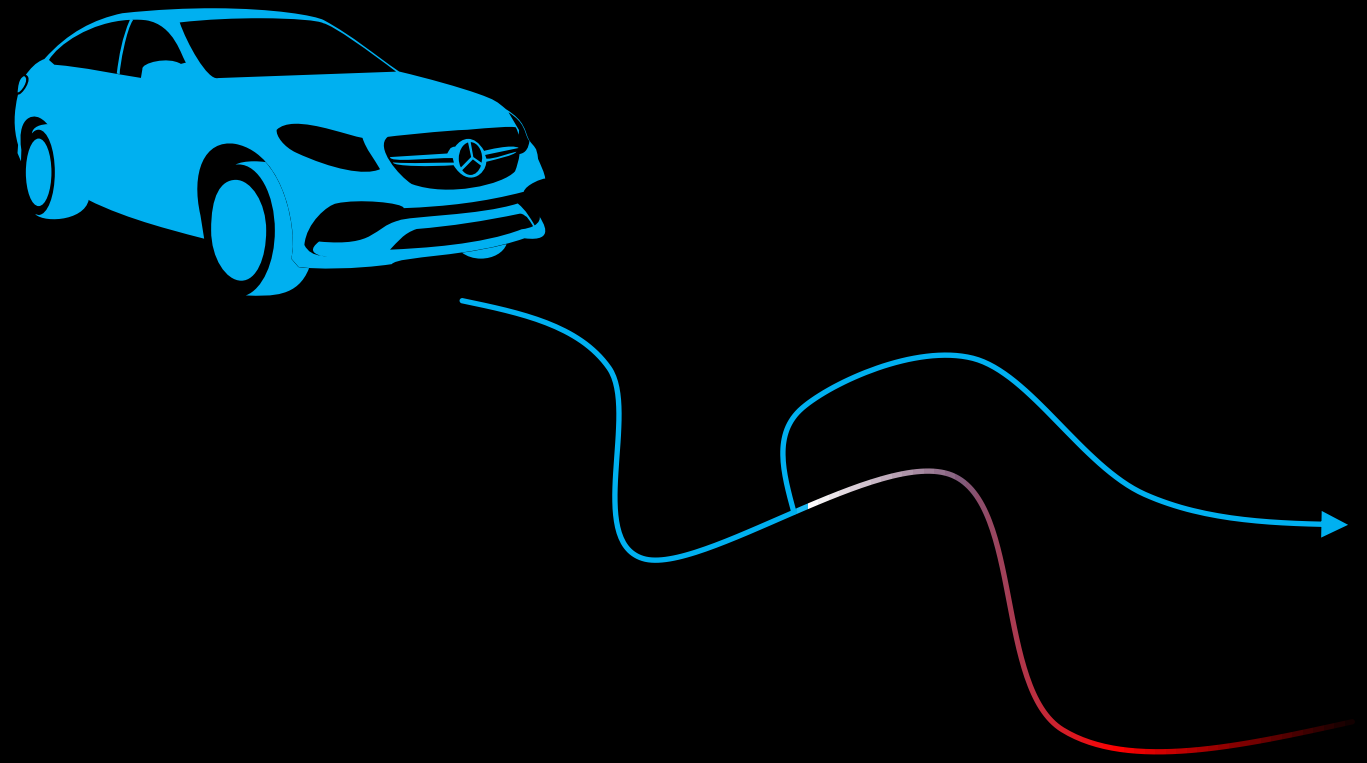
Feature: Live Traffic Information.

Live Traffic Information:

With *Live Traffic Information*, the route is automatically adapted based on current traffic information.

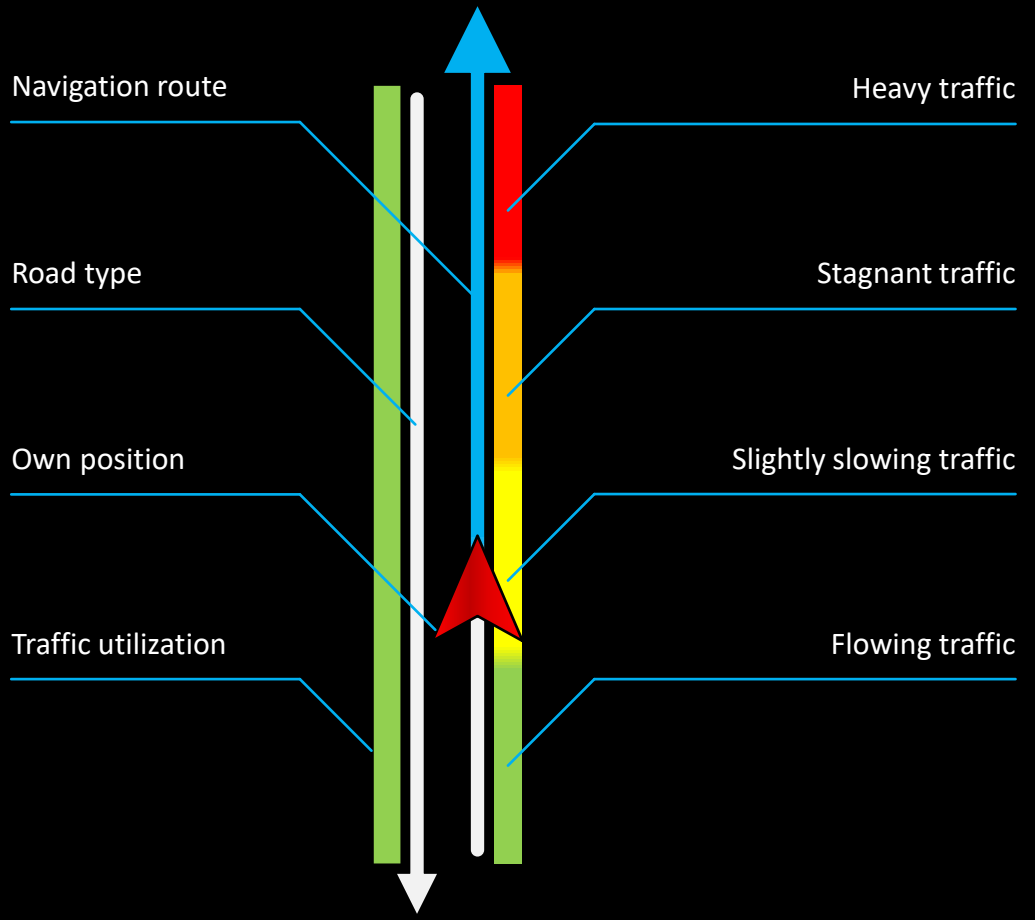
Live Traffic Information records and transmits a high number of traffic data from various sources, which are available within a short time after the vehicle is started.
The traffic data is updated every 2 minutes.

If a significant deceleration is registered on the route by traffic incidents/traffic jams, route guidance is dynamically adapted and guided through a faster route.



Feature: Live Traffic Information | Representation.

Representation of traffic information:



Status display:

LIVETRAFFIC = not available.

LIVETRAFFIC = Available.

2min = On the current route a traffic jam of 2 minutes is to be expected.

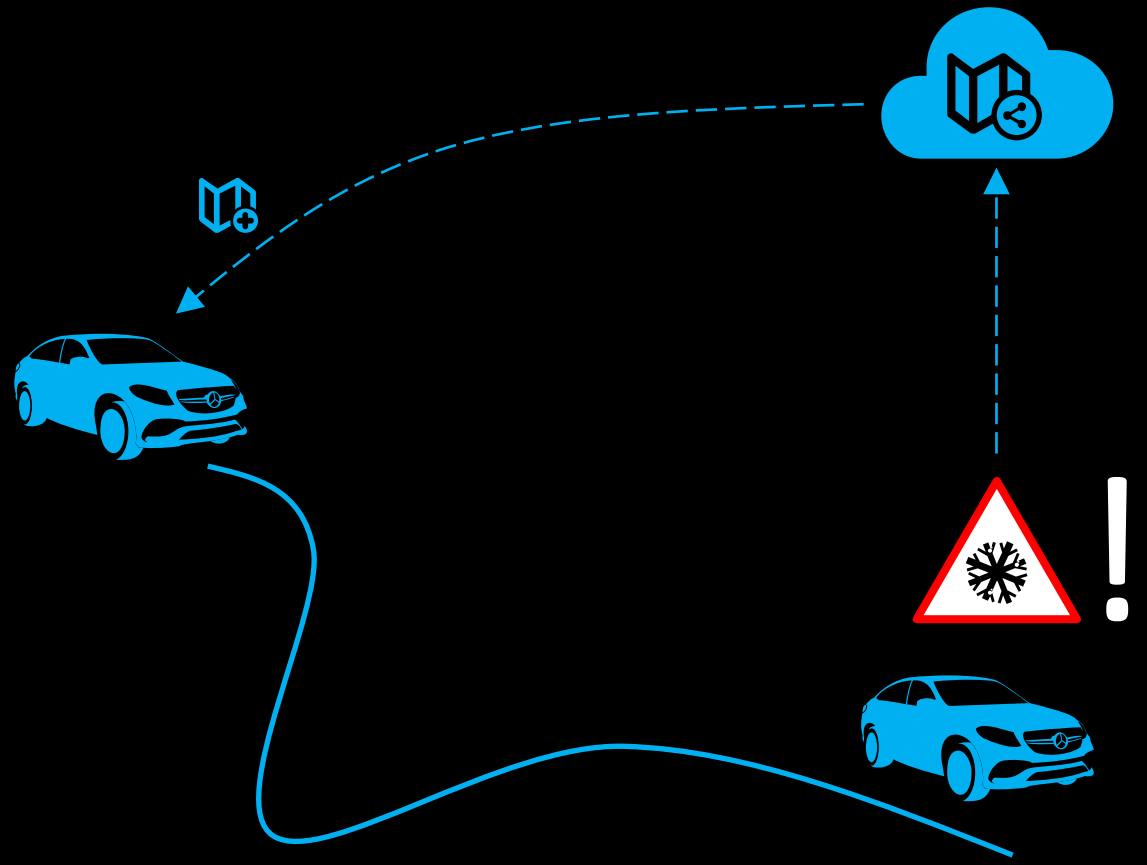
Feature: Car-to-X Communication.

Car-to-X Communication:

With *Car-to-X Communication*, information on a sudden danger – such as ice or an accident – can be passed on as quickly as possible to subsequent or oncoming road users.

If a Mercedes-Benz passenger car detects a hazardous situation via the vehicle sensors, this is sent in real time to the Mercedes-Benz Cloud together with position data.

For further road users, the danger area is then visible on the navigation map.



Feature: Car-to-X Communication | Representations.

Representation of traffic information:

- Risk of slipping
- Crosswind
- Mobile construction site
- Breakdown vehicle
- Speed bump
- General warning
- Reduced visibility
- Accident
- Heavy rain
- Hazard light

New C and S-Class models as well as the EQS can detect potholes or speed bumps.*

*Special equipment for C-Class: Suspension with adaptive damping system or AIRMATIC standard air suspension for S-Class and EQS.


Mercedes me