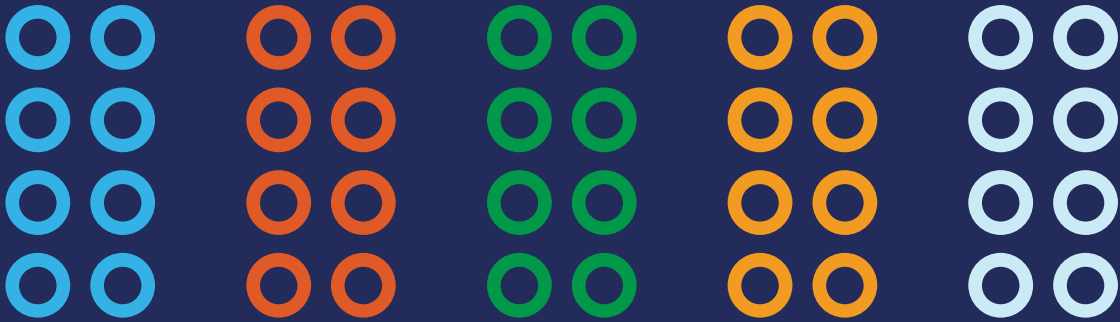


otonomo



Mercedes-Benz Fleet Data

# Optimize Fleet Performance with Mercedes-Benz Vehicle Data

Mercedes-Benz fleet data, available in Otonomo Vehicle Data Platform, enables fleet managers to monitor their vehicles in more than 25 countries throughout Europe. With Otonomo, fleet managers gain access to rich and high-quality vehicle data that is driven by multiple vehicular sensors, processors, and high-speed data communication frameworks, all through a single point of business. The platform encompasses global and harmonized fleet data, strict compliance with international data privacy regulations, and straightforward APIs.

Otonomo's holistic solution seamlessly connects fleets with OEM platforms to take advantage of embedded connectivity that powers next-generation fleet productivity. The Otonomo Vehicle Data Platform cleanses and harmonizes the data to make it readily accessible to fleets through Otonomo's advanced APIs. Otonomo's Consent Management Hub enables an instant consent and revoke management for thousands of fleet vehicles through a single interaction to further simplify fleet connectivity and ease regulatory compliance across geographies.

Mercedes-Benz intensive fleet data includes dozens of attributes that offer valuable information about vehicle performance, usage, and safety for a variety of use cases that optimize fleet performance, logistics and expenses.

A diverse selection of fleet use cases is listed in the [use cases](#) section.

The entire set of available attributes is described in the [data attributes](#) section.

# Use Cases

Mercedes-Benz fleet data can be used for creating numerous value-added use cases, such as the use case listed below, and many more.

## GPS Vehicle Tracking

Track the location of fleet vehicles in real time to optimize routes and save fuel expenses.

## Remote Diagnostics

Monitor the health of your fleet in real time. Capture multiple vehicle health indicators, such as mileage, fuel level, coolant level, battery voltage, brake fluid and more, and enable sophisticated correlations to gain further insights.

## Driver Safety Monitoring

Monitor safe driving habits and vehicle safety. Track speed, brake lining wear, tire pressure and warnings to enhance drivers' safety.

## Optimize Service Times

Track distance and time to service to optimize service times and maximize vehicle usage.

## Automated Parking Payments

Use location data to detect when a vehicle enters and leaves a municipal parking spot. Automatically pay for parking using the correct rate and time.

## Fuel and Charge Management

Observe fuel level or remaining charge on electric vehicles. Alert drivers and guide them to the best fueling facility. Combat and detect fuel theft and fuel payment fraud.

## EV Route Planning

Operate electrified fleets more efficiently, optimizing their routes to minimize time or costs, depending on what is being transported. Reduce range anxiety by informing drivers when and where to charge their vehicles.

## Fleet Electrification

Efficiently convert your fleet to electric vehicles. Make data-driven decisions on how to invest in EVs and where to place fleet-owned charging points.

## Vehicle Usage Monitoring

Track vehicle locations to detect theft or unauthorized vehicle use. Get customized location alerts when vehicles enter or leave designated areas or deviate from planned routes.

## Predictive Maintenance

Predict when a vehicle will likely experience a fault or need maintenance, based on actual status and statistical inference from historical data and trends.

## Residual Value Optimization

Identify the right vehicle and right timing to replace it. Maximize remarketing value based on its actual use and maintenance data.

# Data Attributes

Attribute	Otonomo Normalized Name	Description
Timestamp	received_time	Time of data collection in Epoch time
<b>Static Vehicle Data</b>		
Final Inspection Date	manufacturer__final_inspection__date	Provides the final inspection date in UTC
Model Year	manufacturer__year__value	Provides the model year of the vehicle model
License Plate	metadata__identification__license_plate	Provides the license number
Fuel Type	manufacturer__fuel__type	<p>Provides the fuel type of the vehicle</p> <p><b>Values:</b></p> <ul style="list-style-type: none"> <li>1 - Gasoline</li> <li>2 - Methanol</li> <li>3 - Ethanol</li> <li>4 - Diesel</li> <li>5 - LPG</li> <li>6 - CNG</li> <li>7 - Propane</li> <li>8 - Electric</li> <li>9 - Bifuel running Gasoline</li> <li>10 - Bifuel running Methanol</li> <li>11 - Bifuel running Ethanol</li> <li>12 - Bifuel running LPG</li> <li>13 - Bifuel running CNG</li> <li>14 - Bifuel running Propane</li> <li>15 - Bifuel running Electricity</li> <li>16 - Bifuel running electric and combustion engine</li> <li>17 - Hybrid gasoline</li> <li>18 - Hybrid Ethanol</li> <li>19 - Hybrid Diesel</li> <li>20 - Hybrid Electric</li> </ul>

Attribute	Otonomo Normalized Name	Description
		21 - Hybrid running electric and combustion engine 22 - Hybrid Regenerative 23 - Bifuel running diesel
Manufacturer	manufacturer__year__value	Manufacturer of the telematics unit
Model	manufacturer__model__value	Model of the vehicle
Transmission type	manufacturer__transmission__type	Transmission type <b>Values:</b> 1 - Manual 2 - Automatic
VIN	vehicle__identification__vin	Vehicle Identification Number
Exterior Color	manufacturer__color__value	Exterior color
Power	manufacturer__engine__power	Power of engine in Watts <b>Value Range:</b> 0 -746000
Drive	manufacturer__drive__type	Drivetrain <b>Values:</b> 1 - Rear-wheel drive 2 - Front-wheel drive 3 - Four-wheel drive
Make	manufacturer__make__value	Vehicle brand
<b>Position Data</b>		
Altitude	location__altitude__value	The height of the vehicle above sea level (in meters) at the time of data collection <b>Value Range:</b> -430 m to 8,800 m
Heading	mobility__heading__angle	The orientation of the vehicle in degrees at the time of data collection. The determined

Attribute	Otonomo Normalized Name	Description
		<p>orientation of the vehicle may differ from its actual orientation due to inaccuracies in the GPS positioning</p> <p><b>Value Range:</b>                      0 to 359 degrees                      180 degrees - The vehicle is pointing directly south                      0 degrees - The vehicle is pointing directly north</p>
Latitude	location__latitude__value	<p>The vehicle's degree of latitude at the time of data collection. The GPS position is transferred regardless of whether the GPS positioning has been activated or deactivated in the vehicle</p> <p><b>Values:</b> +90 (Northern Hemisphere) to -90 (Southern Hemisphere)</p>
Speed	mobility__speed__value	<p>Vehicle speed in km/h</p> <p><b>Value Range:</b> 0 to 409</p>
Longitude	location__longitude__value	<p>The vehicle's degree of longitude at the time of data collection. The GPS position is transferred regardless of whether the GPS positioning has been activated or deactivated via the settings menu in the vehicle</p> <p><b>Values:</b> +180 (east of the Greenwich meridian) to -180 (west of the Greenwich meridian)</p>

**Fuel**

Attribute	Otonomo Normalized Name	Description
Fuel Level	vehicle__fuel__level	Provides the fuel tank level in percentage <b>Value Range:</b> 0 to 100
<b>Tires and wheels</b>		
Status of Rear left Tire	vehicle__tire__2_1_pressure_warning	Indicates whether there is a warning on front right tire <b>Values:</b> 0 - Warning 1 - No Warning
Status of Front Right Tire	vehicle__tire__1_2_pressure_warning	Indicates whether there is a warning on front right tire <b>Values:</b> 0 - No Warning 1 - Warning
Status of Rear Right Tire	vehicle__tire__2_2_pressure_warning	Indicates whether there is a warning on rear right tire <b>Values:</b> 0 - No Warning 1 - Warning
Status of Front Left Tire	vehicle__tire__1_1_pressure_warning	Indicates whether there is a warning on front left tire <b>Values:</b> 0 - No Warning 1 - Warning
Tire Pressure Front Right	vehicle__tire__1_2_pressure	Provides the current pressure of the front right tire in PSI <b>Value Range:</b> 0 to150
Tire Pressure Rear Right	vehicle__tire__2_2_pressure	Provides the current pressure of the rear right tire in PSI <b>Value Range:</b> 0 to150
Tire Pressure Front Left	vehicle__tire__1_1_pressure	Provides the current pressure of the front left tire in PSI <b>Value Range:</b> 0 to 150



Attribute	Otonomo Normalized Name	Description
Tire Pressure Rear Left	vehicle__tire__2_1_pressure	Provides the current pressure of the rear left tire in PSI <b>Value Range:</b> 0 to 150
Tire Pressure Warning	vehicle__tire__pressure_warning	Indicates whether the tire pressure warning is active/inactive <b>Values:</b> 0 - Inactive 1 - Active
<b>Warning</b>		
Fuel Level Warning	vehicle__fuel__level_warning	Indicates whether the fuel level warning is active/inactive <b>Values:</b> 0 - Inactive 1 - Active
Coolant Level Warning	vehicle__coolant__level_warning	Indicates whether the coolant level warning is active/inactive <b>Values:</b> 0 - Inactive 1 - Active
Washer Fluid Warning	vehicle__washer_fluid__level_warning	Indicates whether wash water warning is active/inactive <b>Values:</b> 0 - Inactive 1 - Active
Warning Low Battery	vehicle__battery__level_warning	Indicates whether low battery warning is active/inactive <b>Values:</b> 0 - Inactive 1 - Active
Warning Brake Lining Wear	vehicle__brake__wear_warning	Indicated whether brake lining wear warning is active/inactive <b>Values:</b> 0 - Inactive

Attribute	Otonomo Normalized Name	Description
		1 - Active
Brake Fluid Warning	vehicle__brake_fluid__level_warning	Indicates whether the brake fluid warning is active/inactive <b>Values:</b> 0 - Inactive 1 - Active
AdBlue Level	vehicle__adblue__level	Provides the AdBlue level <b>Value Range:</b> 0 to 100
AdBlue Level Warning	vehicle__adblue__level_warning	Indicates whether the AdBlue level warning is active/inactive <b>Values:</b> 0 - Inactive 1 - Active
<b>Distance</b>		
Odometer	mobility__odometer__value	Odometer reading in km <b>Value Range:</b> 0 to 10,000,000
<b>Maintenance</b>		
Distance to Service	maintenance__service__distance_to_next	Residual distance to service <b>Value Range:</b> 0 to 50,000
Time to Service	maintenance__service__days_to_next	Residual time to service in days
Service Due Date	maintenance__service__due_date	The due date of the next vehicle service in epoch time.
<b>Doors</b>		
Door Lock Status Front Right	vehicle__door_lock__1_2_status	Provides the lock status of front right door <b>Values:</b> 0 - Open 1 - Locked

Attribute	Otonomo Normalized Name	Description
Door Lock Status Rear Right	vehicle__door_lock__2_2_status	Provides the lock status of rear right door <b>Values:</b> 0 - Open 1 - Locked
Door Lock Status Front Left	vehicle__door_lock__1_1_status	Provides the lock status of front left door <b>Values:</b> 0 - Open 1 - Locked
Door Lock Status Rear Left	vehicle__door_lock__2_1_status	Provides the lock status of rear left door <b>Values:</b> 0 - Open 1 - Locked
Driver Front Door State	vehicle__door__1_1_status	Front left door status at the time of data collection <b>Values:</b> 2 - Open 3 - Closed
Driver Rear Door State	vehicle__door__2_1_status	Rear left door status at the time of data collection <b>Values:</b> 2 - Open 3 - Closed
Passenger Front Door State	vehicle__door__1_2_status	Front right door status at the time of data collection <b>Values:</b> 2 - Open 3 - Closed
Passenger Rear Door State	vehicle__door__2_2_status	Rear right door status at the time of data collection <b>Values:</b> 2 - Open 3 - Closed

Attribute	Otonomo Normalized Name	Description
<b>Windows</b>		
Driver Front Window	vehicle__window__1_1_status	The front left window status at the time of data collection <b>Values:</b> 0 - Open 1 - Closed
Driver Rear Window	vehicle__window__2_1_status	The rear left window status at the time of data collection <b>Values:</b> 0 - Open 1 - Closed
Passenger Front Window	vehicle__window__1_2_status	The front right window status at the time of data collection <b>Values:</b> 0 - Open 1 - Closed
Passenger Rear Window	vehicle__window__2_2_status	The rear right window status at the time of data collection <b>Values:</b> 0 - Open 1 - Closed
<b>Interior Light</b>		
Front Right Reading Lamp	vehicle__reading_light__1_2_status	Indicates whether the front right reading lamp inside is on/off <b>Values:</b> 0 - Off 1 - On
Front Left Reading Lamp	vehicle__reading_light__1_1_status	Indicates whether the front left reading lamp is on/off <b>Values:</b> 0 - Off 1 - On
Rear Interior Lights	vehicle__reading_light__rear_status	Indicates whether the rear interior lights are on/off

Attribute	Otonomo Normalized Name	Description
		Values: 0 - Off 1 - On
Light Switch Position	vehicle__light__switch__status	Provides position of the rotary light switch <b>Values:</b> 1- Automatic 2 -Dipped Head lights 3 -Parking Light Right 4 -Parking Light Left 5- Sidelights
<b>Roof</b>		
Roof Top Status	vehicle__roof__convertible_status	Indicates whether the convertible top is opened/closed <b>Values:</b> 0 - Closed 1 - Open
Sunroof Status	vehicle__roof__sunroof_status	Provides the position of the sunroof <b>Values:</b> 0 - Closed 1 - Open
<b>Vehicle Status</b>		
Pre-Warning Brake Lining Wear	vehicle__brake__pre_wear_warning	Provides the activation status of brake lining wear pre warning <b>Values:</b> 0 - Off 1 - On
Battery Voltage	vehicle__battery__voltage	Provides supply battery voltage <b>Value Range:</b> 0 to 25.4V

**Electric & Hybrid Vehicles**

Attribute	Otonomo Normalized Name	Description
Charging Power	vehicle__hv_battery__charging_power	Provides current charging power in kW (only valid while charging) <b>Value range:</b> -102.4 to 309.2
Charging Status	vehicle__hv_battery__charging_status	Provides the current charging status of the battery for EV/Plug-In vehicles <b>Values:</b> 0 - Vehicle charging 1 - End of Charge 2 - Charge break 3 - Charge cable unplugged 4 - Charging failure 5 - Slow Charging 6 - Fast Charging 7 - Discharging 8 - No charging 9 -Charging foreign object detection
State of Charge	vehicle__hv_battery__level	State of charge (HV battery) in percentage <b>Value Range:</b> 0 - 100
<b>Ignition</b>		
Ignition State	vehicle__ignition__status	Provides the status of the ignition state switch <b>Values:</b> 0 - Off 1 - Accessory 2 - Run 3 - Start

## Frequency and Latency

The frequency of the various attributes may vary based on the following frequency types:

- "Static" - is a constant value that is not updated
- "Ignition Off" - As soon as the vehicle's ignition is turned off, the value is immediately updated
- "On Change"- As soon as the vehicle updates the value internally, the value is immediately updated
- "On Trigger"- As soon as the vehicle updates the value internally, the value is only updated after trigger has forced the vehicle to send an event (e.g. On Change update of another data point)
- "End of Trip" - The value is updated at the end of a trip
- Position attributes frequency is updated every 120 seconds

**Note:** As equipment and TCU configurations of the connected vehicles regularly differ, there may be variations in the frequencies of the available data points.

# Available Models

Passenger Cars	Production as of:	Light Commercial Vehicles	Production as of:
A-class	09/2014	Sprinter	9/2018
GLA	09/2014	Vito	3/2019
CLA	09/2014	V Class	9/2016
B	09/2014	X Class	11/2017
GLB	09/2014		
C	09/2014		
GLC	09/2014		
E	09/2014		
GLE	09/2014		
X	09/2014		
G	09/2014		
CLS	09/2014		
S	09/2014		
SL	09/2014		
GLS	09/2014		
AMG GT	09/2014		
AMT GT 4-door	09/2014		



# Available Countries

Austria	Germany	Norway
Belgium	Greece	Poland
Bulgaria	Hungary	Portugal
Croatia	Ireland	Romania
Czech Republic	Italy	Slovakia
Denmark	Latvia	Slovenia
Estonia	Lithuania	Spain
Finland	Luxembourg	Sweden
France	Malta	Switzerland
	Netherlands	United Kingdom



Contact us to fuel your fleet with Mercedes-Benz fleet data

Otonomo Vehicle Data Platform is an all-in-one solution that seamlessly connects OEMs with fleets. Otonomo secures, cleanses, normalizes, aggregates, and enriches vehicle data to make it easily accessible and more valuable for diverse use cases.

[CONTACT US](#)

# otonomo

One  
Platform.  
Unlimited  
Potential.



## About Otonomo

Otonomo fuels an ecosystem of OEMs, fleets and more than 100 service providers. Our platform securely ingests more than 4 billion data points per day from over 40 million global connected vehicles, then reshapes and enriches it, to accelerate time to market for new services that improve the in-and-around the car experience. Privacy by design and neutrality are at the core of our platform, which enables GDPR, CCPA, and other privacy-regulation-compliant solutions using both personal and aggregate data. Use cases include emergency services, mapping, EV management, subscription-based services, parking, predictive maintenance, insurance, media, in-vehicle services, and dozens of smart city solutions. Otonomo has an R&D center in Israel and a presence in the United States, Europe, and Japan.

More information is available at [otonomo.io](https://otonomo.io).