

# Factsheet für Car&RideSharing Community eG (ID : 42)

Zuletzt aktualisiert:  
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## GBFS

**GBFS-Versionen:** 2.3

Für den Datenlieferanten Car&RideSharing Community eG können über die folgenden GBFS-Endpunkte Daten abgefragt werden:

- [https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/system\\_information.json](https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/system_information.json)
- [https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/vehicle\\_types.json](https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/vehicle_types.json)
- [https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/free\\_bike\\_status.json](https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/free_bike_status.json)
- [https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station\\_information.json](https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station_information.json)
- [https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station\\_status.json](https://mdd.vrs.de/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station_status.json)

## GraphQL

GraphQL-Queries erlauben das Abfragen gebündelter Feeds mehrerer Provider. Welche Feeds gebündelt werden kann über den Provider Filter gesteuert werden. Mehr Informationen zu gebündelten Feeds und Filtern können Sie der MDD NRW Schnittstellenbeschreibung entnehmen.

## Legende

- *Kursiver Datentyp*: Aufzählung. Im GraphQL Schema sind alle möglichen Werte aufgelistet.
- **Fetter Datentyp**: Komplexer Datentyp, genaue Definition findet sich im Factsheet und im GraphQL Schema
- [Datentyp] mit eckigen Klammern: Liste mit Einträgen des jeweiligen Datentyps.
- Map(Datentyp1, Datentyp2): Eine Zuordnungstabelle für assoziative Daten.

## Provider

Endpunkte: *listProviders*, *providerById*

Beschreibung: Complex datatype for information about providers. A provider is a source of data from which the MDD NRW receives information.

Attribut	Datentyp	Beschreibung	Beispiel
id	Long	The id is a unique identifier within the same class.	5179
name	String	Name of this provider	VRS
active	boolean	If a provider is active, the data for this provider is updated regularly. A value of "true" equals the state active.	
vehicles	<b>[Vehicle]</b>	Vehicles of this provider	
vehicleTypes	<b>[VehicleType]</b>	Vehicle types of this provider	
sharingStations	<b>[SharingStation]</b>	Sharing stations of this provider	
systemInformations	<b>[SystemInformation]</b>	System information of this provider	

## Vehicle

Endpunkte: *listVehicles*, *vehicleById*

Beschreibung: Complex datatype for information about vehicles, for example scooters, bikes and cars.

Attribut	Datentyp	Beschreibung	Beispiel
id	Long	The id is a unique identifier within the same class.	5179
provider	<b>Provider</b>	The provider this entity belongs to	
lastUpdated	Date	This entity was last loaded into the MDD NRW at this point. The date is given in UTC.	2024-07-30T09:30:00Z
externalId	String	Id given by provider	
lat	double	Current WGS84 latitude of the vehicle in decimal degrees	51.890169
lon	double	Current WGS84 longitude of the vehicle in decimal degrees	6.100169
station	<b>SharingStation</b>	The station in which the vehicle is currently located	
vehicleType	<b>VehicleType</b>	Vehicle type of the vehicle	
status	<i>Status</i>	Current status of the vehicle	AVAILABLE
remainingRangeInM	Integer	Remaining range of vehicle in meters with current charge	
batteryPercentage	Integer	Current charge of battery in percent	
isReserved	Boolean	"true" if the vehicle is currently reserved	
isDisabled	Boolean	"true" if the vehicle is currently disabled	
lastReported	Date	The last time this station reported its status to the operator's backend.	2024-07-30T09:30:00Z
homeStation	<b>SharingStation</b>		

## VehicleType

Endpunkte: *listVehicleTypes*, *vehicleTypeById*

Beschreibung: Complex datatype for information about vehicle types. Vehicles of the same type share the available attributes.

Attribut	Datentyp	Beschreibung	Beispiel
id	Long	The id is a unique identifier within the same class.	5179
provider	<b>Provider</b>	The provider this entity belongs to	
lastUpdated	Date	This entity was last loaded into the MDD NRW at this point. The date is given in UTC.	2024-07-30T09:30:00Z
type	String	External id given by provider	
formFactor	<i>VehicleFormFactor</i>	The vehicle's general form factor	SCOOTER
propulsionType	<i>VehiclePropulsionType</i>	The primary propulsion type of the vehicle	ELECTRIC
riderCapacity	Integer	The number of riders (driver included) the vehicle can legally accommodate.	
maxRangeMeters	Integer	Maximum range in meters this vehicle can travel when fully charged without refueling	4000
vehicleImageUrl	String	URL to an image that would assist the user in identifying the vehicle	
make	String	The name of the vehicle manufacturer	
model	String	The name of the vehicle model	
returnConstraint	<i>VehicleReturnConstraint</i>	The conditions for returning the vehicle at the end of the rental	FREE_FLOATING
vehicleCategoryId	String	Vehicle type category id	
vehicleTypesAvailable	<b>[VehicleTypesAvailability]</b>	Number of available vehicles of a vehicleType at a sharingStation	

## SharingStation

Endpunkte: *listSharingStations*, *sharingStationById*

Beschreibung: Complex datatype for information about sharing stations.

Attribut	Datentyp	Beschreibung	Beispiel
id	Long	The id is a unique identifier within the same class.	5179
provider	<b>Provider</b>	The provider this entity belongs to	
lastUpdated	Date	This entity was last loaded into the MDD NRW at this point. The date is given in UTC.	2024-07-30T09:30:00Z
externalId	String	Id given by the provider	
name	String	Name of the sharing station	
lat	double	WGS84 latitude of the sharing station in decimal degrees	51.890169
lon	double	WGS84 longitude of the sharing station in decimal degrees	6.100169
address	String	Address of the sharing station	Hauptstraße 35
postCode	String	Postcode where the station is located	
isInstalled	Boolean	"true" if the station is currently on the street	
isRenting	Boolean	"true" if the station is currently renting vehicles	
isReturning	Boolean	"true" if the station is currently accepting vehicle returns	
lastReported	Date	The last time this station reported its status to the operator's backend	2024-07-30T09:30:00
vehicleTypesAvailable	<b>Map(VehicleType, VehicleTypesAvailability)</b>	Number of available vehicles of a vehicleType at a sharingStation	

homeStationVehicles **[Vehicle]**Station this vehicle must  
be returned to

## SystemInformation

Endpunkte: *listSystemInformation*, *systemInformationById*

Beschreibung: Complex datatype for information about the system of a provider. A provider can have multiple systems with differing information. Contains for example contact details and language information.

Attribut	Datentyp	Beschreibung	Beispiel
id	Long	The id is a unique identifier within the same class.	5179
provider	<b>Provider</b>	The provider this entity belongs to	
lastUpdated	Date	This entity was last loaded into the MDD NRW at this point. The date is given in UTC.	2024-07-30T09:30:00Z
systemId	String	External id given by provider	
language	String	Language of information by this provider	
name	String	Name of the system	
operator	String	Name of the system operator	
url	String	Url of the system	
phoneNumber	String	Phone number of this system's customer service department	
email	String	Email address of this system's customer service department	
feedContactEmail	String	Contact email to report technical issues with feeds	
timezone	String	The timezone where the system is located	
licenseUrl	String	URL of a page that defines license terms of data	
termsUrl	String	URL pointing to the terms of service	
privacyUrl	String	URL pointing to the privacy policy for the service	
rentalApps	<b>RentalApps</b>	Rental app information	

## RentalApps

Beschreibung: Complex datatype for rental app information.

Attribut	Datentyp	Beschreibung	Beispiel
android	<b>AppUris</b>	Rental app information for android	
ios	<b>AppUris</b>	Rental app information for ios	

## AppUris

Beschreibung: Complex datatype for app URI information.

Attribut	Datentyp	Beschreibung	Beispiel
storeUri	String	URI where the rental app can be downloaded from.	
discoveryUri	String	URI that can be used to discover if the rental app is installed on the device.	

## VehicleTypesAvailability

Beschreibung: Complex datatype for the count of vehicles of a given type.

Attribut	Datentyp	Beschreibung	Beispiel
sharingStation	<b>SharingStation</b>	VehicleTypesAvailability applies for this sharing station.	
vehicleType	<b>VehicleType</b>	VehicleTypesAvailability applies for this sharing station.	
count	Integer	Number of vehicles of vehicleType available at sharing station	