

# Factsheet für Free2move (ID : 37)

Zuletzt aktualisiert: 06.03.2026 03:00

Der Datenlieferant Free2move hat folgende Zonen:

- sharenow\_Rheinland (ID : 288)

## Geoserver

Für den Datenlieferanten Free2move können über die folgenden Geoserver Layer Daten abgefragt werden:

- Standorte Carsharing (37)
- Fahrzeuge Carsharing (37)
- Carsharing-Stationen
- Carsharing-Fahrzeuge
- Gebündelte Carsharingdaten

## GBFS

Für den Datenlieferanten Free2move können über die folgenden GBFS-Endpunkte Daten abgefragt werden:

- <https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/{Gbfs Endpunkt}.json>

GBFS Endpunkt	GBFS Version
GBFS	2.3, 3.0
VEHICLE_TYPES	2.3, 3.0
STATION_INFORMATION	2.3, 3.0
STATION_STATUS	2.3, 3.0
FREE_BIKE_STATUS	2.3
GEOFENCING_ZONES	2.3, 3.0
MANIFEST	2.3, 3.0
VEHICLE_STATUS	3.0

## 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.	

## GeofencingZone

Endpunkte: *listGeofencingZones*, *geofencingZoneById*

Beschreibung: Complex datatype for information about geofencing zones. Geofencing zones contain information about, for example, No-parking-Areas for vehicles of the corresponding provider.

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
name	String	Name of this geofencing zone	
geometry	<b>Multipolygon</b>	Geometry information for a geofencing zone	
externalId	String	Id given by provider; the format differs between providers.	ABC-123456789-DEF
rules	<b>[GeofencingZoneRule]</b>	List of rules that apply to this geofencing zone.	
type	<i>GeofencingZoneType</i>	Zone type	NO_PARKING

## Multipolygon

Beschreibung: Complex class representing a MultiPolygon

Attribut	Datentyp	Beschreibung	Beispiel
type	<i>GeoJsonType</i>	Type	MULTI_POLYGON
coordinates	[[[[Double]]]]	Multi-dimensional list of coordinates	[[[[6,50], ...]]]

## GeofencingZoneRule

Beschreibung: Complex datatype for information about rules in geofencing zones.

Attribut	Datentyp	Beschreibung	Beispiel
id	Long	The id is a unique identifier within the same class.	5179
geofencingZone	<b>GeofencingZone</b>	The rules hold for this geofencing zone.	
rideAllowed	Boolean	“true” if a ride can start and stop in this zone.	
rideThroughAllowed	Boolean	“true” if a vehicle is allowed to pass the zone but cannot end the ride here.	

## 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
parkingType	<i>ParkingType</i>	Type of parking station	PARKING_LOT
capacity	Integer	Maximum capacity of the station	
currentlyStationedVehicles	<b>[Vehicle]</b>	List of vehicles currently parked at this station	

## 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.	
vehicleImageUrl	String	URL to an image that would assist the user in identifying the vehicle	
vehicles	<b>[Vehicle]</b>	Vehicles that have this vehicle type	

## 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
plateNumber	String	Plate number of the vehicle	
batteryPercentage	Integer	Current charge of battery or fuel level in percent	
isReserved	Boolean	"true" if the vehicle is currently reserved	
color	String	Color of the vehicle	