

# Factsheet für DB Call a Bike (ID : 376)

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Der Datenlieferant DB Call a Bike hat folgende Zonen:

- CallABike (Call a Bike) (ID : 377)
- CallABikeICE (Call a Bike) (ID : 378)

## GBFS

**GBFS-Versionen:** 2.3, 3.0

Für den Datenlieferanten DB Call a Bike können über die folgenden GBFS-Endpunkte Daten abgefragt werden:

- [https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/system\\_information.json](https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/system_information.json)
- [https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/vehicle\\_types.json](https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/vehicle_types.json)
- [https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/free\\_bike\\_status.json](https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/free_bike_status.json)
- [https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station\\_information.json](https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station_information.json)
- [https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station\\_status.json](https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/station_status.json)
- [https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/geofencing\\_zones.json](https://mdd.gorheinland.com/gbfs-output/{Datenlieferanten ID}/{GBFS Version}/geofencing_zones.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. |          |
| parentProvider     | <b>Provider</b>            | Provider belongs to this parent provider   |          |
| systemInformations | <b>[SystemInformation]</b> | System information of this provider  |          |
| sharingStations    | <b>[SharingStation]</b>    | Sharing stations of this provider  |          |
| vehicles           | <b>[Vehicle]</b>           | Vehicles of this provider  |          |
| vehicleTypes       | <b>[VehicleType]</b>       | Vehicle types of this provider   |          |
| geofencingZones    | <b>[GeofencingZone]</b>    | Geofencing zones of this provider  |          |
| childProviders     | <b>[Provider]</b>          | Provider has a list of child providers which often represent different zones   |          |

## 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.<br>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   |                      |
| shortName        | String            | Short name of the system   |                      |
| operator         | String            | Name of the system operator  |                      |
| url              | String            | Url of the system  |                      |
| feedContactEmail | String            | Contact email to report technical issues with feeds                                      |                      |
| timezone         | String            | The timezone where the system is located   |                      |
| rentalApps       | <b>RentalApps</b> | Rental app information   |                      |

## RentalApps

Beschreibung: Complex datatype for rental app information.

| Attribut | Datentyp      | Beschreibung                       | Beispiel |
|----------|---------------|------------------------------------|----------|
| android  | <b>AppUri</b> | Rental app information for android |          |
| ios      | <b>AppUri</b> | Rental app information for ios     |          |

## AppUri

Beschreibung: Complex datatype for app URI information.

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

## 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             |
| numBikesAvailable          | Integer   | Number of available vehicles of any type at the station                               |                      |
| capacity                   | Integer   | Maximum capacity of the station   |                      |
| currentlyStationedVehicles | <b>[Vehicle]</b>                                  | List of vehicles currently parked at this station                                     |                      |
| 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              | 2024-07-30T09:30:00Z |
| vehicleTypesAvailable      | <b>Map(VehicleType, VehicleTypesAvailability)</b> | Number of available vehicles of a vehicleType at a sharingStation                     |                      |

## 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 |          |

## Vehicle

Endpunkte: *IsitVehicles, 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            |
| information  | String                | Additional information  |                      |
| rentalUris   | <b>RentalUris</b>     | Rental URIs for Android, iOS and Web  |                      |
| lastReported | Date                  | The last time this station reported its status to the operator's backend.             | 2024-07-30T09:30:00Z |
| isReserved   | Boolean               | "true" if the vehicle is currently reserved   |                      |
| isDisabled   | Boolean               | "true" if the vehicle is currently disabled   |                      |

## RentalUris

Beschreibung: Complex datatype for information about rental URIs for Android, iOS and Web

| Attribut | Datentyp | Beschreibung           | Beispiel |
|----------|----------|------------------------|----------|
| android  | String   | Rental URI for Android |          |
| ios      | String   | Rental URI for iOS     |          |

## 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   |                      |
| propulsionType        | <i>VehiclePropulsionType</i>      | The primary propulsion type of the vehicle  | ELECTRIC             |
| publicName            | String                            | Public name of this vehicle type  |                      |
| vehicleTypesAvailable | <b>[VehicleTypesAvailability]</b> | Number of available vehicles of a vehicleType at a sharingStation                     |                      |

## 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   |   |
| coordinates | String                      | Coordinates representing a polygon covering the zone. The format can differ between providers. | <code>{"type":"MultiPolygon","coordinates":[[[[[6,50],...]]]]}</code> or <code>{"centroid":{"type":"Point","coordinates":[6,50]}}</code> , <code>"position":{"type":"Polygon","coordinates":[[[[[6,50],...]]]]}</code> or <code>[[[[[6,50],...]]]]</code> |
| rules       | <b>[GeofencingZoneRule]</b> | List of rules that apply to this geofencing zone.  |   |

## 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. |          |