

## Factsheet für ryde (ID : 465)

Zuletzt aktualisiert: 30.07.2026 05:00

Der Datenlieferant ryde hat folgende Zonen:

- ryde Köln (Ryde Köln) (ID : 469)
- ryde Aachen (Ryde Aachen) (ID : 468)
- ryde Bonn (Ryde Bonn) (ID : 467)

**Gebündelte Daten aller ryde-Zonen (ID: 465)**

### Geoserver

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

- Standorte Scooter - ryde (ID: 465)
- Fahrzeuge Scooter - ryde (ID: 465)
- Scooter-Stationen
- Scooter-Fahrzeuge
- Gebündelte E-Scooterdaten

### GBFS

Für den Datenlieferanten ryde 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     |
| SYSTEM_INFORMATION   | 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          |
| SYSTEM_HOURS         | 2.3          |
| SYSTEM_PRICING_PLANS | 2.3, 3.0     |
| 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      |
| childProviders     | [Provider]          | Provider has a list of child providers which often represent different zones                                         |          |
| parentProvider     | <b>Provider</b>     | Provider belongs to this parent provider                                                                             |          |
| active             | boolean             | If a provider is active, the data for this provider is updated regularly. A value of "true" equals the state active. |          |
| vehicles           | [Vehicle]           | Vehicles of this provider                                                                                            |          |
| geofencingZones    | [GeofencingZone]    | Geofencing zones of this provider                                                                                    |          |
| pricingPlans       | [PricingPlan]       | Pricing plans of this provider                                                                                       |          |
| rentalHours        | [RentalHour]        | Rental hours of this provider                                                                                        |          |
| sharingStations    | [SharingStation]    | Sharing stations of this provider                                                                                    |          |
| systemInformations | [SystemInformation] | System information of this provider                                                                                  |          |
| vehicleTypes       | [VehicleType]       | Vehicle types 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             |
| 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                              |                      |
| pricingPlan       | <b>PricingPlan</b> | Pricing information for the corresponding vehicle                                     |                      |
| isReserved        | Boolean            | "true" if the vehicle is currently reserved                                           |                      |
| isDisabled        | Boolean            | "true" if the vehicle is currently disabled                                           |                      |
| rentalUris        | <b>RentalUris</b>  | Rental URIs for Android, iOS and Web                                                  |                      |

## 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             |
| maxRangeMeters        | Integer                      | Maximum range in meters this vehicle can travel when fully charged without refueling      | 4000                 |
| publicName            | String                       | Public name of this vehicle type                                                          |                      |
| vehicleImageUrl       | String                       | URL to an image that would assist the user in identifying the vehicle                     |                      |
| vehicleAssets         | <b>VehicleAssets</b>         |                                                                                           |                      |
| vehicles              | [Vehicle]                    | Vehicles that have this vehicle type                                                      |                      |
| vehicleTypesAvailable | [VehicleTypesAvailability]   | Number of available vehicles of a vehicleType at this sharing station                     |                      |
| vehicleDocksAvailable | [VehicleDocksAvailability]   | The currently available docks for different sets of vehicle types at this sharing station |                      |

## VehicleAssets

| Attribut         | Datentyp | Beschreibung | Beispiel |
|------------------|----------|--------------|----------|
| iconUrl          | String   |              |          |
| iconUrlDark      | String   |              |          |
| iconLastModified | String   |              |          |

## 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 |          |

## 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             |
| isVirtualStation | Boolean             | Is this station a location with smart dock technology?                                |                      |
| stationArea      | <b>Multipolygon</b> | A GeoJSON MultiPolygon that describes the area of a virtual station                   |                      |

|                       |                                            |                                                                          |                      |
|-----------------------|--------------------------------------------|--------------------------------------------------------------------------|----------------------|
| isValetStation        | Boolean                                    | Are valet services provided at this station?                             |                      |
| numBikesAvailable     | Integer                                    | Number of available vehicles of any type at the station                  |                      |
| numDocksAvailable     | Integer                                    | Number of functional docks physically at the station                     |                      |
| vehicleTypesAvailable | Map(VehicleType, VehicleTypesAvailability) | Number of available vehicles of a vehicleType at a sharingStation        |                      |
| vehicleDocksAvailable | [VehicleDocksAvailability]                 |                                                                          |                      |
| 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 |

## Multipolygon

Beschreibung: Complex class representing a MultiPolygon

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

## VehicleDocksAvailability

Beschreibung: Number of functional docks, that are able to receive vehicles of a set of vehicleTypes at a sharingStation

| Attribut       | Datentyp              | Beschreibung                                         | Beispiel |
|----------------|-----------------------|------------------------------------------------------|----------|
| id             | Long                  | The id is a unique identifier within the same class. | 5179     |
| sharingStation | <b>SharingStation</b> |                                                      |          |
| vehicleTypes   | [VehicleType]         |                                                      |          |
| count          | Integer               |                                                      |          |

## PricingPlan

Endpunkte: *listPricingPlans*, *pricingPlanById*

Beschreibung: Complex datatype for information about pricing plans.

| 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               | External id given by provider                                                                                                |                      |
| name          | String               | Name of the pricing plan                                                                                                     |                      |
| currency      | <i>PriceCurrency</i> | Currency used to pay the price                                                                                               | EUR                  |
| price         | Double               | Price in unit specified by currency                                                                                          | 1.29                 |
| isTaxable     | Boolean              | Indicates whether additional tax will be added to the price                                                                  |                      |
| description   | String               | Description                                                                                                                  |                      |
| perMinPricing | [PricingModel]       | Additional price per time interval. The time interval length and the price per interval differ depending on the ride length. |                      |
| vehicles      | [Vehicle]            | Vehicles using this pricing plan                                                                                             |                      |

## PricingModel

Beschreibung: Complex datatype for information about the pricing model for a ride. Pricing Models are either based on duration or distance.

| Attribut | Datentyp | Beschreibung                                     | Beispiel |
|----------|----------|--------------------------------------------------|----------|
| start    | Integer  | The pricing model applies when start is reached. | 0        |
| rate     | Double   | Price per interval                               | 0.22     |
| interval | Integer  | Interval length                                  | 1        |

## 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     |          |

## 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                                            |                      |
| rules       | [GeofencingZoneRule] | 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. |          |
| maximumSpeedKph    | Integer               | Maximum Speed in km per hour                                                  | 20       |
| stationParking     | Boolean               | Can vehicles only be parked at stations within this zone?                     |          |

## RentalHour

Endpunkte: *listRentalHours*, *rentalHourById*

Beschreibung: Describes hours and days of operation

| 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 |
| userTypes   | <i>[UserType]</i> | Indicates to which user types the rental hour applies.                                | MEMBER               |
| days        | <i>[Day]</i>      | Indicates to which days the rental hour applies.                                      | SUN                  |
| startTime   | LocalTime         | Start time for the hours of operation of the system                                   | 00:00:00             |
| endTime     | LocalTime         | End time for the hours of operation of the system                                     | 23:59:59             |

## 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                                                                    |                      |
| url         | String            | Url of the system                                                                     |                      |
| email       | String            | Email address of this system's customer service department                            |                      |
| 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.                               |          |