

Factsheet für miles (ID : 380)

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Der Datenlieferant miles hat folgende Zonen:

- miles_CGN (Köln) (ID : 416)
- miles_DUI (Duisburg) (ID : 417)
- miles_DUS (Düsseldorf) (ID : 418)
- miles_UWP (Wuppertal) (ID : 419)
- miles_ZOI (Solingen) (ID : 423)

Gebündelte Daten aller miles-Zonen (ID: 380)

Geoserver

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

- Fahrzeuge Carsharing (380)
- Carsharing-Fahrzeuge
- Gebündelte Carsharingdaten

GBFS

Für den Datenlieferanten miles 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
FREE_BIKE_STATUS	2.3
SYSTEM_PRICING_PLANS	2.3, 3.0
GEOFENCING_ZONES	2.3, 3.0
MANIFEST	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.	
parentProvider	Provider	Provider belongs to this parent provider	
systemInformations	[SystemInformation]	System information of this provider	
pricingPlans	[PricingPlan]	Pricing plans of this provider	
vehicles	[Vehicle]	Vehicles of this provider	
vehicleTypes	[VehicleType]	Vehicle types of this provider	
geofencingZones	[GeofencingZone]	Geofencing zones of this provider	
childProviders	[Provider]	Provider has a list of child providers which often represent different zones	

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

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
systemId	String	External id given by provider	
language	String	Language of information by this provider	
name	String	Name of the system	
provider	Provider	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
timezone	String	The timezone where the system is located	

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	GeofencingZone	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.	

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	Provider	The provider this entity belongs to	
externalId	String	External id given by provider	
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
price	Double	Price in unit specified by currency	1.29
currency	<i>PriceCurrency</i>	Currency used to pay the price	EUR
parkingPricePerMinute	Double	Price per minute when parked	0.22
perKmPricing	[PricingModel]	Additional price per kilometer interval. The kilometer interval length and the price per interval differ depending on the ride length.	
description	String	Description	
isTaxable	Boolean	Indicates whether additional tax will be added to the price	
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
interval	Integer	Interval length	1
rate	Double	Price per interval	0.22

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	Provider	The provider this entity belongs to	
type	String	External id given by provider	
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
size	String	Size of the vehicle	S, M, L
riderCapacity	Integer	The number of riders (driver included) the vehicle can legally accommodate.	
propulsionType	<i>VehiclePropulsionType</i>	The primary propulsion type of the vehicle	ELECTRIC
vehicleAccessories	[VehicleAccessory]	Additional information about the vehicle	KEYLESS, AUTOMATIC, DOORS_5
ratedPowerW	Integer	The rated power of the motor for this vehicle type in watts. 1PS corresponds to about 735W.	
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	
formFactor	<i>VehicleFormFactor</i>	The vehicle's general form factor	SCOOTER
vehicles	[Vehicle]	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	Provider	The provider this entity belongs to	
externalId	String	Id given by provider	
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
pricingPlan	PricingPlan	Pricing information for the corresponding vehicle	
vehicleType	VehicleType	Vehicle type of the vehicle	
color	String	Color of the vehicle	
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
batteryPercentage	Integer	Current charge of battery or fuel level in percent	
remainingRangeInM	Integer	Remaining range of vehicle in meters with current charge	
rentalUris	RentalUris	Rental URIs for Android, iOS and Web	
isAvailableForRookies	Boolean	"true" if the vehicle is available for rookies drivers	

RentalUris

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

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