

# Factsheet für VRS Fahrplan Echtzeitdaten (ID : 360)

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## GTFS

Für den Datenlieferanten VRS Fahrplan Echtzeitdaten können über den folgenden GTFS-Endpoint Daten abgefragt werden:

- <https://mdd.gorheinland.com/gtfs-output/{Datenlieferanten ID}>

## 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.	
agencies	<b>[Agency]</b>	Agencies of this provider	
serviceCalendars	<b>[ServiceCalendar]</b>	ServiceCalendars of this provider	
serviceCalendarDeviations	<b>[ServiceCalendarDeviation]</b>	ServiceCalendarDeviations of this provider	
feedInfos	<b>[FeedInfo]</b>	FeedInfo of this provider	
routes	<b>[Route]</b>	Routes of this provider	
shapes	<b>[Shape]</b>	Shapes of this provider	
stopTimes	<b>[StopTime]</b>	StopTimes of this provider	
locations	<b>[Location]</b>	Locations of this provider	
transferDetails	<b>[TransferDetail]</b>	TransferDetails of this provider	
trips	<b>[Trip]</b>	Trips of this provider	

## Agency

Endpunkte: *listAgencies*, *agencyById*

Beschreibung: Complex datatype for information about the agency of a provider. Providers can have multiple agencies.

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
agencyId	String	Id given by provider	
name	String	Name of the agency	
url	String	Url of the agency	
timeZone	String	Timezone where the agency is located	
languageCode	String	Primary language used by this agency	
phoneNumber	String	Phone number of this agency	
routes	<b>[Route]</b>	Routes of this agency	

## ServiceCalendar

Endpunkte: *listServiceCalendars*, *serviceCalendarById*

Beschreibung: Complex datatype for the service calendar.

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	
monday	Boolean	"true" if this service operates on all Mondays in the given date range.	
tuesday	Boolean	"true" if this service operates on all Tuesdays in the given date range.	
wednesday	Boolean	"true" if this service operates on all Wednesdays in the given date range.	
thursday	Boolean	"true" if this service operates on all Thursdays in the given date range.	
friday	Boolean	"true" if this service operates on all Fridays in the given date range.	
saturday	Boolean	"true" if this service operates on all Saturdays in the given date range.	
sunday	Boolean	"true" if this service operates on all Sundays in the given date range.	
startDate	Date	Start date of this service calendar	2023-10-10 00:00:00.000
endDate	Date	End date of this service calendar	2023-10-10 00:00:00.000
deviations	<b>[ServiceCalendarDeviation]</b>	Deviations from this service calendar	
trips	<b>[Trip]</b>	Trips for which this service calendar applies	

### ServiceCalendarDeviation

Endpunkte: *listServiceCalendarDeviations*, *serviceCalendarDeviationById*

Beschreibung: Complex datatype for the service calendar deviation.

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
serviceCalendar	<b>ServiceCalendar</b>	Deviation applies to this service calendar	
serviceId	String	Service id	
date	Date	Date for which the deviation applies	2024-06-06 00:00:00
exceptionType	<i>ServiceExceptionType</i>	The type of deviation	OFFERED or CANCELED

## FeedInfo

Endpunkte: *listFeedInfos*, *feedInfoById*

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
publisherName	String	Full name of the organization that publishes the dataset	
publisherUrl	String	URL of the dataset publishing organization's website	
language	String	Default language used for the text in this dataset	
startDate	Date	The dataset provides schedule information for service in the period from the beginning of the day in startDate to the end of the day in endDate	
endDate	Date	The dataset provides schedule information for service in the period from the beginning of the day in startDate to the end of the day in endDate	
feedVersion	String	String that indicates the current version of the dataset	

## Route

Endpunkte: *listRoutes*, *routeById*

Beschreibung: Complex datatype for the route.

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	
agency	<b>Agency</b>	Agency of the route	
shortName	String	Short name of the route	
name	String	Name of the route	
type	<i>RouteType</i>	Indicates the type of transportation used on a route	STREET_RAIL
colorRgb	String	Route color designation that matches public facing material	
colorRgbText	String	Legible color to use for text drawn against a background of colorRgb	
trips	<b>[Trip]</b>	Trips of this route	

## Shape

Endpunkte: *listShapes*, *shapeById*

Beschreibung: Complex datatype for the shape.

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	
coordinatesSequential	String	Coordinates for this shape in sequential order	[[7.1,51.1],[7.2,51.1], [7.2,51.2],[7.1,51.2], [7.1,51.1]]
trips	<b>[Trip]</b>	Trips for which the vehicle travels along the shape described here	



## StopTime

Endpunkte: *listStopTimes*, *stopTimeById*

Beschreibung: Complex datatype for the stop time.

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
trip	<b>Trip</b>	The stop time applies to this trip at the specified location.	
arrivalTime	String	Arrival time at the location for the specified trip in Format HH::MM:SS. For times occurring after midnight on the service day, the times are greater than 24:00:00.	27:15:00
departureTime	String	Departure time at the location for the specified trip in Format HH::MM:SS. For times occurring after midnight on the service day, the times are greater than 24:00:00.	27:15:00
location	<b>Location</b>	The stop time applies to this location and the specified trip.	
locationSequence	Integer	Order of stops, location groups, or GeoJSON locations for a particular trip.	
headSign	String	Text that appears on signage identifying the trip's destination to riders.	
pickUpType	<i>BoardingType</i>	Indicates pickup method	UNAVAILABLE
dropOffType	<i>BoardingType</i>	Indicates drop off method	UNAVAILABLE

## Location

Endpunkte: *listLocations*, *locationById*

Beschreibung: Complex datatype for information about POIs. Contains for example name, type, address and coordinates of the corresponding POI.

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	Identifies a stop, station, or station entrance. If the externalId is a DHID ('deutschlandweit einheitliche Haltestellen-ID'), information by other providers about this location can be found by filtering the locations by tis externalId.	
code	String	Short text or a number that identifies the location for riders	
name	String	Name of the location	
description	String	Description of the location	
lat	Double	WGS84 latitude of the location in decimal degrees	51.890169
lon	Double	WGS84 longitude of the location in decimal degrees	6.100169
locationType	<i>LocationType</i>	Type of the location	CINEMA
parentLocation	<b>Location</b>	Parent location	
city	String	City of the location	
district	String	District of the location	
stopTimes	<b>[StopTime]</b>	Stop times at this location	
locationFromTransfers	<b>[TransferDetail]</b>	Transfer details for transfer from this location to another one	
locationToTransfers	<b>[TransferDetail]</b>	Transfer details for transfer to this location from another one	

## TransferDetail

Endpunkte: *listTransferDetails*, *transferDetailById*

Beschreibung: Complex datatype for the transfer details.

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
fromLocation	<b>Location</b>	Identifies a stop where a connection between routes begins	
toLocation	<b>Location</b>	Identifies a stop where a connection between routes ends	
type	<i>TransferType</i>	Indicates the type of connection	DEPARTURE_WILL_WAIT
minTransferTime	Integer	Amount of time, in seconds, that must be available to permit a transfer between routes at the specified stops	

## Trip

Endpunkte: *listTrips*, *tripById*

Beschreibung: Complex datatype for the trip.

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	
route	<b>Route</b>	Trip belongs to this route	
serviceCalendar	<b>ServiceCalendar</b>	Identifies a set of dates when service is available	
headSign	String	Text that appears on signage identifying the trip's destination to riders	
direction	<i>Direction</i>	Indicates the direction of travel for a trip	INVERSE
shape	<b>Shape</b>	Identifies a geospatial shape describing the vehicle travel path for a trip	
isWheelchairBoarding	<i>TakeAway</i>	Indicates wheelchair accessibility	AT_LEAST_ONE
bikesAllowed	<i>TakeAway</i>	Indicates whether bikes are allowed	NOT_AVAILABLE
stopTimes	<b>[StopTime]</b>	Stop times of this trip	