

vehicle_settings/set_odometer.php

Set the current odometer of a vehicle.

Description

GET

`vehicle_settings/set_odometer.php?company=COMPANY_RTIKEY&vehicle=VEHICLE_RTIKEY&odometer=ODOMETER`

This function is a **2-step** call. First you have to send the desired odometer value. The system will validate this and returns the calculated correction factor and a hash for confirmation. This hash has to be returned during the following 5 minutes to confirm the changes and send them to the box.

Requirements and restrictions

A manual set odometer is supported by all boxtypes, which are able to track odometer values based on GPS. This includes the YellowTracker 100 to 620, as well as the YellowTracker mobile Xtreme. Vehicles imported by OEM interfaces or mobile apps are not included. Some boxtypes support odometer values imported via Digitacho or Squarell. If such a box has set its odometer source to something else than GPS, you will not be able to set a manual odometer value. These odometer sources should be preferred for getting precise odometer values. You can change the odometer source at the portal at vehicle-based settings.

Parameter

Parameter	description	type	hint	mandatory
company	RTI company key	string		yes
vehicle	RTI vehicle key	string		yes
odometer	odometer value	integer	Odometer value that should be set. Is mandatory for first request.	(yes)
hash	Hash to confirm the request.	string	Mandatory for the second request to confirm the request.	(yes)

Return value

A **string** string will be returned . On error "**ERROR:description**" will be returned.

Possible error values

Fehler	Beschreibung
MISSING_VEHICLE	Vehicle parameter is mandatory.
INVALID_FORMAT_ODOMETER	The submitted odometer value does not match the expected format. It has to be an integer.
CAN_NOT_PROCESS_HASH_AND_ODOMETER_AT_ONCE	You have submitted a hash as well as an odometer value. Please enter only one.
INCOMPLETE_REQUEST_PARAMETERS	You have neither submitted a hash, nor an odometer value. Please enter one of these.
NOT_SUPPORTED_BY_VEHICLE	The given vehicle does not support manual set odometer values. This might be due to its boxtype or the odometer source is something else than GPS.
LAST_SET_ODOMETER_LESS_THAN_10_MINUTES_AGO	A new manual odometer value can only be submitted every 10 minutes.
SET_COMMAND_ALREADY_IN_PROCESS	A manual odometer value is still waiting in queue. You have to wait until it's processed.
INVALID_CURRENT_ODOMETER	The current odometer value of the vehicle is invalid. This means that it's lower than the last manual odometer value. It probably has not been moved since last manual odometer value. We need a first position message to finish the last manual odometer value request.

NEW_ODOMETER_CAN_NOT_BE_LESS_THAN_LAST_ODOMETER	The new odometer value can not be lower than the last manual value.
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JSON

Description of fields

field	description
status	<p>Possible values:</p> <ul style="list-style-type: none"> NEED_COMMIT: The odometer value has been submitted and was validated successfully. It still has to be confirmed. OK: The odometer value has been confirmed and was sent to the box.
query Date	When was this request sent?
odometer	<ul style="list-style-type: none"> current: current odometer according to position messages new: submitted odometer value
correctionFactor	<p>GPS as the source for odometer values can lead to differences from the actual odometer value. The correction factor indicates how much the measured odometer values should be stretched to compensate the offset. Each box has a fixed correction factor which is applied to each position message. Changing the odometer value does also apply a correction factor to each affected position message.</p> <ul style="list-style-type: none"> current: fixed correction factor of box calculated: calculated correction factor to adjust all affected position messages to submitted manual odometer value suggested: suggested correction factor based on the current and calculated factor to avoid further manual odometer values
commandInfo	<p>Info what will happen if you submit this odometer value. Two cases are possible:</p> <ul style="list-style-type: none"> all messages since the last manual entry will be adjusted the last known message is the last manual entry - there are no position messages to be adjusted, the odometer value will be just set
hash	hash that has to be sent for confirm request

Example

Return as JSON

```
{
  "status": "NEED_COMMIT | OK",
  "queryDate": "2023-05-24T09:16:47+0200",
  "odometer":
  {
    "current": 5015,
    "new": 6000
  },
  "correctionFactor":
  {
    "current": 1,
    "calculated": 1.1964107676969,
    "suggested": 1.1964107676969
  },
  "commandInfo":
  {
    "status": 2,
    "text": "Applying this odometer will change all position messages since last set odometer by the calculated correction factor."
  },
  "hash": "6DFB2C5F9A552C014135CBDAFD09CE81"
}
```

Example calls

Request 1: Submit odometer value

```
https://map.yellowfox.de/rti/vehicle_settings/set_odometer.php?
company=COMPANY_RTIKEY&vehicle=VEHICLE_RTIKEY&odometer=12000
```

```
https://map.yellowfox.de/rti/vehicle_settings/set_odometer.php?company=COMPANY_RTIKEY&vehicle={"type": "
car_ident", "groupKey": "GROUP_RTIKEY", "ident": "VEHICLE_IDENT"}&odometer=12000
```

Request 2: Confirm odometer value

```
https://map.yellowfox.de/rti/vehicle_settings/set_odometer.php?
company=COMPANY_RTIKEY&vehicle=VEHICLE_RTIKEY&hash=3785678916
```

```
https://map.yellowfox.de/rti/vehicle_settings/set_odometer.php?company=COMPANY_RTIKEY&vehicle={"type": "
car_ident", "groupKey": "GROUP_RTIKEY", "ident": "VEHICLE_IDENT"}&hash=3785678916
```