2018

TACHO ONLINE

TACHO ONLINE API 1.1.1 REFERENCE GUIDE

TACHO ONLINE API

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CONTENT

WHAT'S NEW?

Here you find an overview of what is new or has changed in Tacho Online API 1.0.0. Please find the full revision history at the end of this document.

TACHO ACTIVITIES

- Added new feature Tacho activities

WELCOME

Welcome to the Tacho Online API Reference Guide.

This document provides all the information you need to integrate Tacho Online into your applications using the Tacho Online API interface.

The documentation is divided into the following sections:

- Terminology: In this chapter, you learn understanding terms used in the context of Tacho Online and Tacho Online API features.
- Programming Guide: The programming guide contains a description of how to submit requests to the Tacho Online API and the data that is returned by the service, including an explanation of how to enable access to the service.
- Reference: The Reference is a description of all available operations, including their parameters and the data returned by these operations.

MORE INFORMATION

Updated versions of this documentation can be acquired by contacting: support@tachoonline.dk.

TERMINOLOGY

Here is a description of the terms used in the context of Tacho Online and the Tacho Online API.

TVS

TungVognSpecialisten ApS (TVS) is the product owner

TACHO ONLINE

Tacho Online is the core component of the TVS solutions. Tacho Online is the webbased application for managing driving and rest times, files, drivers, vehicles and a set of advanced reporting and notifications tools.

TENANT

A tenant in Tacho Online is abbreviation for "The customer".

PROGRAMMING GUIDE

This programming guide is an introduction to using the Tacho Online API interface, how to access the service and how to interpret the output that is returned.

In order to access the Tacho Online service you need an API key and a Tacho Online account or a Partner account enabled. Otherwise, you will not be able to test the integration for your application.

NOTE: Please talk to your TVS contact or write to support@tachoonline.dk, if you do not have access to a Tacho Online or Partner account.

INTRODUCTION TO THE TACHO ONLINE API

The Tacho Online API allows you to access the Tacho Online service through a web-enabled application. These are the primary features accessible through the Tacho Online API:

- Driving & rest times files: file upload and download
- Tacho data: Tacho activities
- Drivers: Insert, update and delete drivers and retrieve driver information.
- Vehicles: Insert, update and delete vehicles and vehicle information.
- Control documents: Insert, update and delete documents and retrieve document information.

Tacho Online API is using access restrictions set up within Tacho Online. This affects all elements of the Tacho Online interface. For instance, you maybe be grant access rights to upload files, but not to download files. Please contact support@tachoonline.dk if you have questions about your access rights.

PREPARING FOR USING THE TACHO ONLINE API

The Tacho Online API can be made available to every customer or partner with a valid Tacho Online account.

Access the Tacho Online API with a valid token to enable access for your application, obtain an OAuth token (credentials) by doing the following:

- Partners: please contact your TVS contact, to receive your credentials (client_id, client_secret, username and password).
- Customers: please contact your sales contact or the support team: support@tachoonline.dk for accessing the API.

NOTE: After an access request has been made, the TVS team will authenticate the request. If the request is valid, the TVS Team will setup the appropriated access rights and you will received your access details and credentials.

MAKING REQUESTS TO TACHO ONLINE API

MAKING HTTP REQUESTS

This section explains how to use HTTP to issue requests to Tacho Online API.

IMPORTANT: only HTTPS requests are accepted. Requests using unencrypted HTTP are rejected!

The Tacho Online API generally uses HTTP:

- GET
- POST
- PATCH
- DELETE

Requests as the underlying transport mechanism for requests.

All requests are made using specific URLs, passing parameter names and values as URL parameters. Responses are currently only available as JSON.

You can experiment with Tacho Online API specific HTTPS requests by entering the request URL into the browser's address bar and submitting the request.

NOTE: If the format of the HTTP request is not valid you will get a corresponding error.

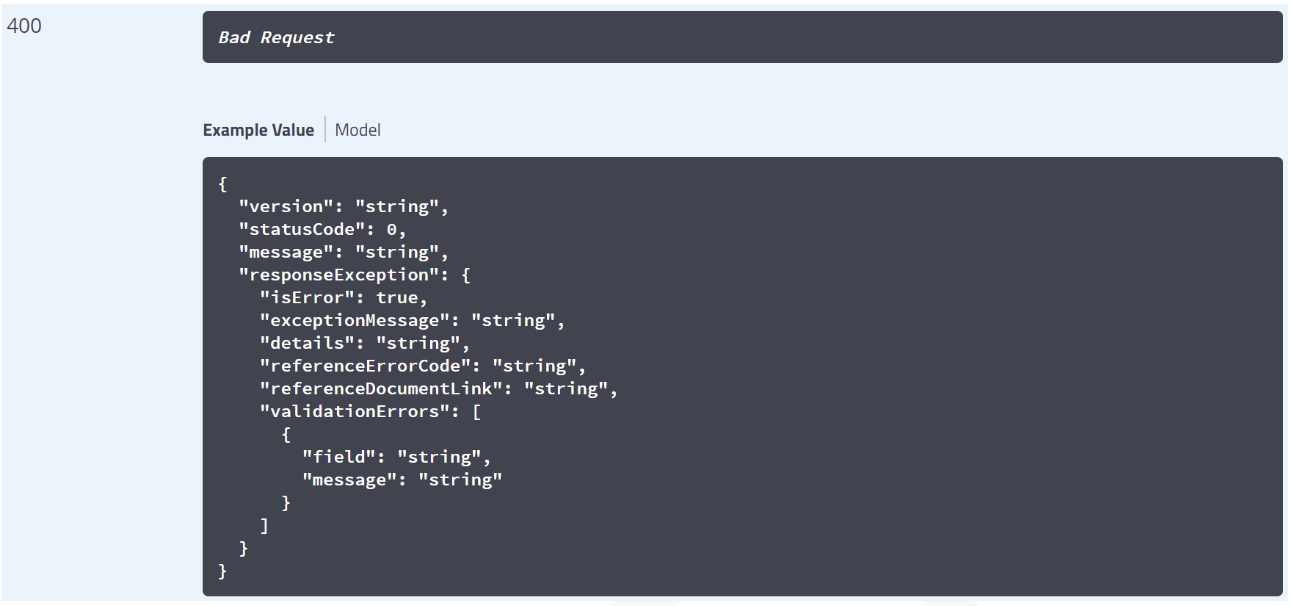
THE BASE URL

The base URL with the https scheme used is:

- https://service.tachoonline.dk/

Handling the response In case of an error, an error message is returned as plain text. The error message has the following layout:

- Errorcode: standard http errorcodes
- Message: custom message that provide a reason text (always in English)



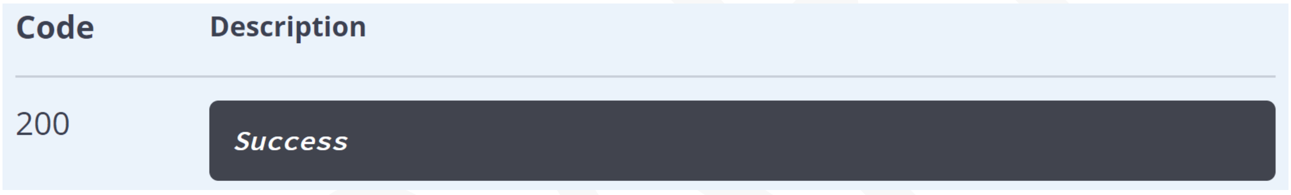
400

Bad Request

Example Value | Model

```
{
  "version": "string",
  "statusCode": 0,
  "message": "string",
  "responseException": {
    "isError": true,
    "exceptionMessage": "string",
    "details": "string",
    "referenceErrorCode": "string",
    "referenceDocumentLink": "string",
    "validationErrors": [
      {
        "field": "string",
        "message": "string"
      }
    ]
  }
}
```

On success, responses will always return statusCode **200** “Success”.



Code	Description
200	*Success*

GETTING STARTED WITH HTTP REQUESTS

For getting started with HTTP requests, we recommend using POSTMAN.

Preconditions:

- POSTMAN (or any other tool where you can add headers)
- Valid client ID and Client secret
- Valid username and password

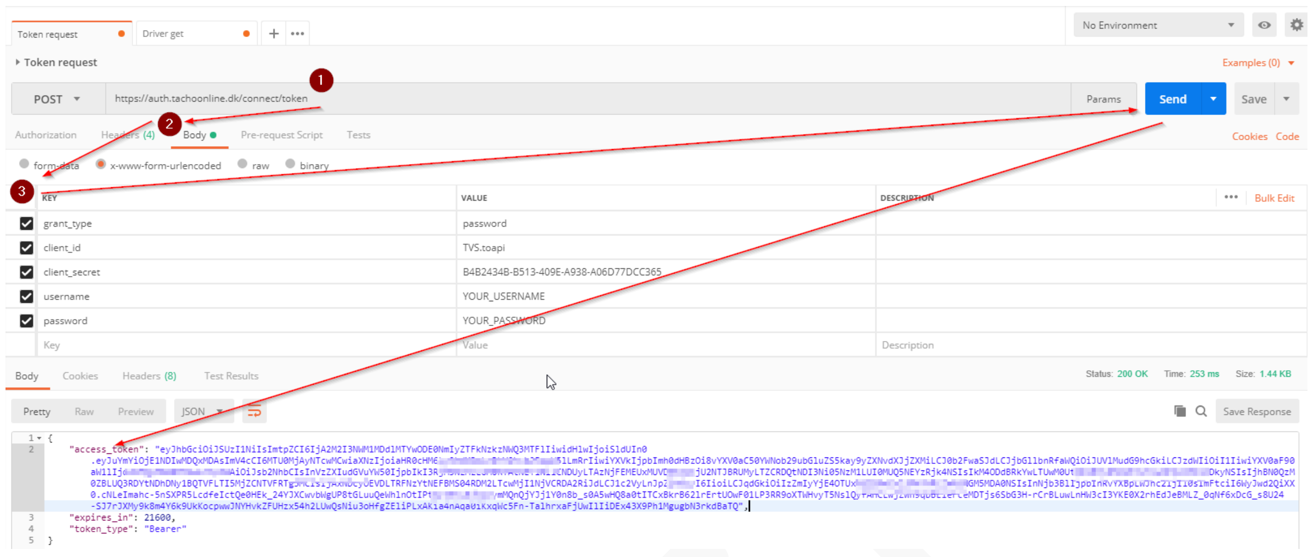
TOKEN REQUEST (OAUTH)

To generate your token, please enter the URL:

- https://auth.tachoonline.dk/connect/token

Add the following parameters (key/value):

- Key: **grant_type** - Value: password
- Key: **client_id** - Value: YOUR.CLIENTID
- Key: **client_secret** - Value: YOUR.CLIENTSECRET
- Key: **username** - Value: YOUR.USERNAME
- Key: **password** - Value: YOUR.PASSWORD



Token request

https://auth.tachoonline.dk/connect/token

KEY	VALUE	DESCRIPTION
grant_type	password	
client_id	TVS.toapi	
client_secret	B4B2434B-B513-409E-A938-A06D77DCC365	
username	YOUR_USERNAME	
password	YOUR_PASSWORD	
Key	Value	Description

Body Cookies Headers (8) Test Results

Status: 200 OK Time: 253 ms Size: 1.44 KB

```
{
    "access_token": "eyJhbGciOiJSUzI1NiIsImtpZCI6IjA2M2I3NWM1MDdlMTYwODE0NmIyZTFkNzkzNWQ3MTFlIiwidHlwIjoiSldUIn0
        .eyJuYmYiOjE1NDIwMDQxMDAsImV4cCI6MTU0MjAyNTcwMCwiaXNzIjoiaHR0cHM6[redacted]51LmRrIiwiYXVkIjpbImh0dHBzOi8vYXV0aC50YWNob29ubGluZS5kay9yZXNvdXJjZXMiLCJ0b2FwaSJdLCJjbGllbnRfaWQiOiJUVlMudG9hcGkiLCJzdWIiOiI1IiwiYXV0aF90
        aW1lIjo[redacted]AiOiJsb2NhbCIsInVzZXIudGVuYW50IjpbIkI3R[redacted]CNDUyLTAzNjFEMEUxMUVD[redacted]jU2NTJBRUMyLTZCRDQtNDI3Ni05NzM1LUI0MUQ5NEYzRjk4NSIsIkM4ODdBRkYwLTUwM0Ut[redacted]DkyNSIsIjhBN0QzM
        0ZBLUQ3RDYtNDhDNy1BQTVFLTI5MjZCNTVFRTg[redacted]OEVDLTRFNzYtNEFBMS04RDM2LTcwMjI1NjVCRDA2RiJdLCJ1c2VyLnJpZ[redacted]I6IioiLCJqdGkiOiIzZmIyYjE4OTUx[redacted]GM5MDA0NSIsInNjb3BlIjpbInRvYXBpLWJhc2ljIl0sImFtciI6WyJwd2QiXX
        0.cNLeImahc-5nSXPR5LcdfeIctQe0HEk_24YJXCwvbWgUP8tGLuuQeWhlnOtIPt[redacted]ymMQnQjYJj1Y0n8b_s0A5wHQ8a0tITCxBkrB62lrErtUOwF01LP3RR9oXTWHvyT5NslQ[redacted]eMDTjs6SbG3H-rCrBLuwLnHW3cI3YKE0X2rhEdJeBMLZ_0qNf6xDcG_s8U24
        -SJ7rJXMy9k8m4Y6k9UkKocpwwJNYHvkZFUHzx54h2LUwQsNiu3oHfgZEliPLxAKia4nAqa0iKxqWc5Fn-TalhrxaFjUwIlIiDEx43X9Ph1MgugbN3rkdBaTQ",
    "expires_in": 21600,
    "token_type": "Bearer"
}
```

NOTE: you can decode the access token using JSON Web Tokens (or another service) to view the payload data.

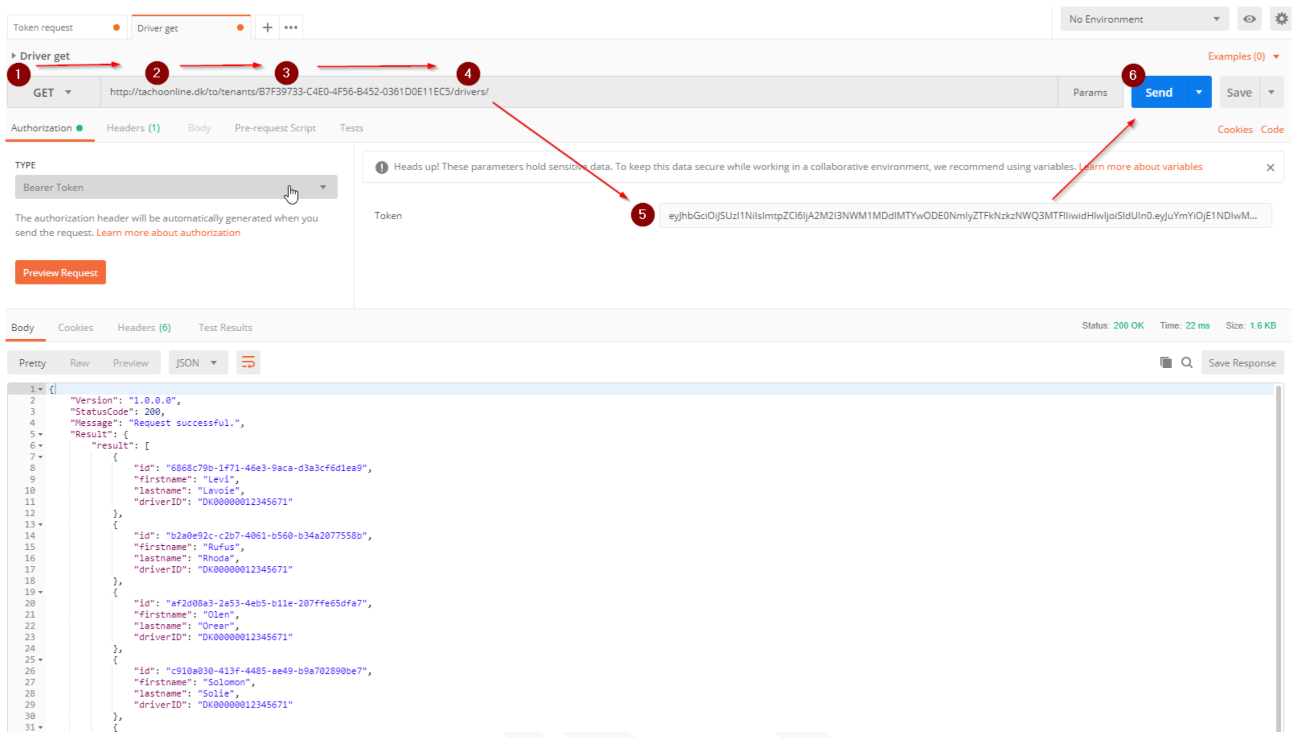
MAKING AN HTTP REQUEST (EXAMPLE)

In this example, we will make a request for all [DRIVERS] on a specific [TENANT]:

Preconditions:

- POSTMAN (or any other tool where you can add headers)
- Valid Access token

1. Select GET
2. Add BaseURL: https:// service.tachoonline.dk/
3. Specify the target tenant (add GUID): https://service.tachoonline.dk/tenants/TENANTID
4. Specify what you want (in this case, we want a list off all the drivers for a tenant): https:// service.tachoonline.dk/tenants/TENANTID/drivers/
5. Add your Access token
6. Click “Send”



http://tachoonline.dk/to/tenants/B7F39733-C4E0-4F56-B452-0361D0E11EC5/drivers/

TYPE: Bearer Token

The authorization header will be automatically generated when you send the request. Learn more about authorization

Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables

Token: eyJhbGciOiJSUzI1NiIsImtpZCI6IjA2M2I3NWM1MDdlMTYwODE0NmlyZTFkNzkzNWQ3MTFlIiwidHlwIjoiSldUIn0.eyJuYmYiOjE1NDIwM...

Status: 200 OK Time: 22 ms Size: 1.6 KB

```
{
    "Version": "1.0.0.0",
    "StatusCode": 200,
    "Message": "Request successful.",
    "Result": {
        "result": [
            {
                "id": "6868c79b-1f71-46e3-9aca-d3a3cf6d1ea9",
                "firstname": "Levi",
                "lastname": "Lavoie",
                "driverID": "DK0000012345671"
            },
            {
                "id": "b2a0e92c-c2b7-4061-b560-b34a2077558b",
                "firstname": "Rufus",
                "lastname": "Rhoda",
                "driverID": "DK0000012345671"
            },
            {
                "id": "af2d08a3-2a53-4eb5-b11e-207ffe65dfa7",
                "firstname": "Olen",
                "lastname": "Orear",
                "driverID": "DK0000012345671"
            },
            {
                "id": "c910a030-413f-4485-ae49-b9a702890be7",
                "firstname": "Solomon",
                "lastname": "Solie",
                "driverID": "DK0000012345671"
            },
            {
```

REQUEST LIMITS

The number of requests that can be issued is limited. If the number of requests executed exceeds this limit, Tacho Online will return an error message and not process requests until there were no further requests within the limit-monitoring interval. Limits are defined by a maximum number of requests allowed in a certain time period.

- Request limit: **10** / second - **180** / minute [**DRAFT - WILL MOST LIKELY BE CHANGE!**]

IMPORTANT: Should an application using Tacho Online API cause too much load on the system, the limit may be reduced at any time without prior notice and eventually access to Tacho Online API might be revoked completely if the problems are not fixed within a reasonable amount of time.

REFERENCE

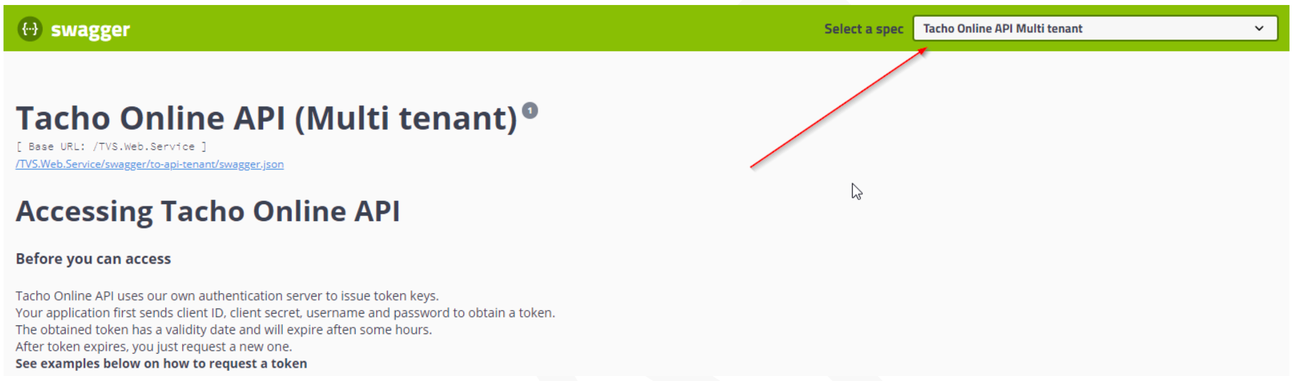
The Tacho Online API is into divided into two areas:

- **Tacho Online API - Single tenant** (single usage): primarily use by our customers
- **Tacho Online API - Multi tenants** (multi usage): used by our partners

SWAGGER

Want to skip this reading and jump straight to the documentation provided using Swagger, then click here or use the following link:

- https://service.tachoonline.dk/doc/index.html



Tacho Online API (Multi tenant)

[Base URL: /TVS.Web.Service]
/TVS.Web.Service/swagger/to-api-tenant/swagger.json

Accessing Tacho Online API

Before you can access

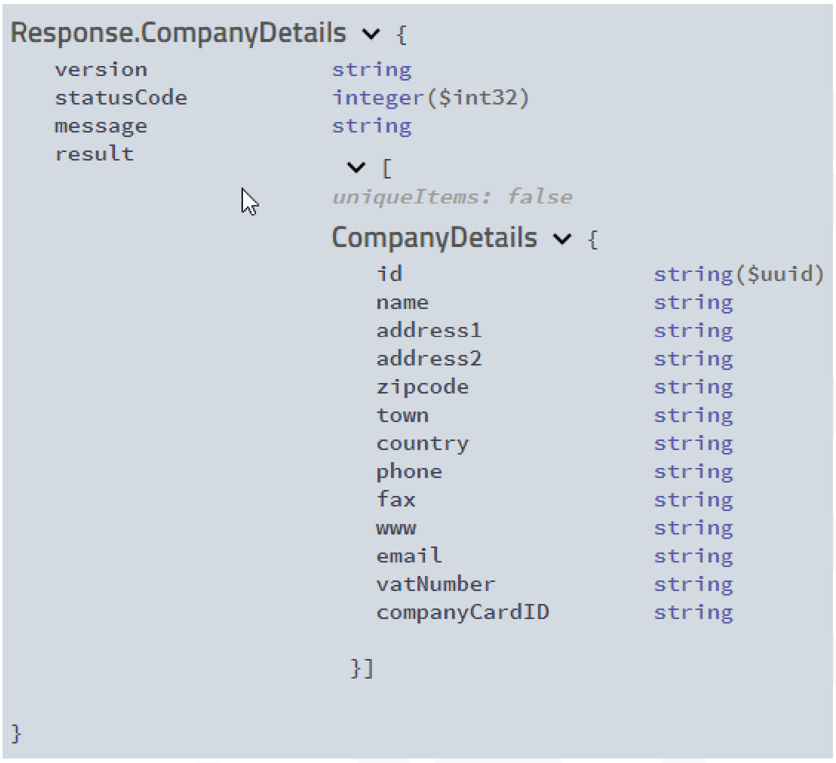
Tacho Online API uses our own authentication server to issue token keys.
Your application first sends client ID, client secret, username and password to obtain a token.
The obtained token has a validity date and will expire aften some hours.
After token expires, you just request a new one.
See examples below on how to request a token

NOTE: please select the appropriated "spec" before you start reading the swagger documentation.

COMPANY

[GET] /COMPANY

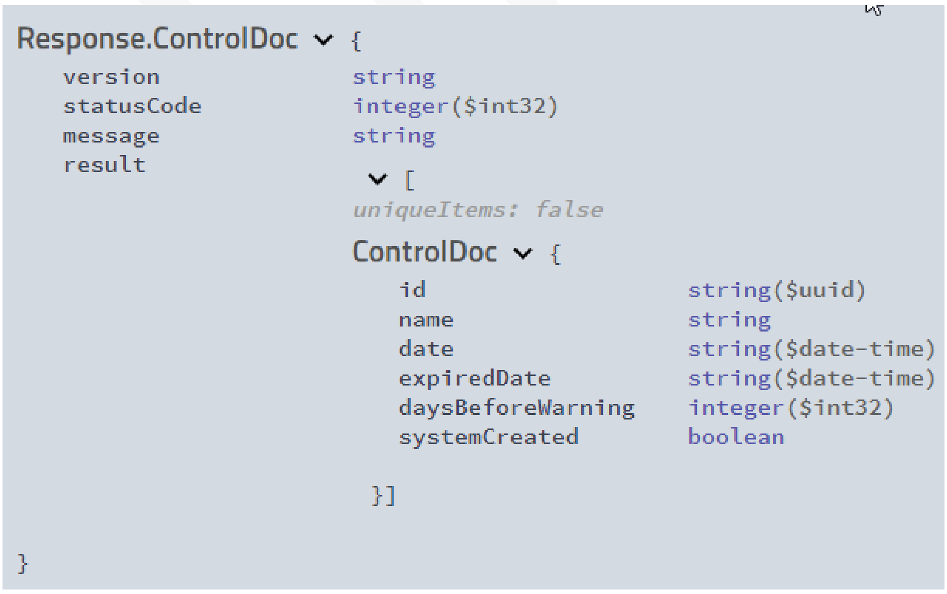
Get information about current company:



```
Response.CompanyDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result
                        ⌄ [
                        uniqueItems: false
                        CompanyDetails ⌄ {
                            id                  string($uuid)
                            name                string
                            address1            string
                            address2            string
                            zipcode             string
                            town                string
                            country             string
                            phone               string
                            fax                 string
                            www                 string
                            email               string
                            vatNumber           string
                            companyCardID       string

                          }]

}
```

[GET] /COMPANY/CONTROLDOCS

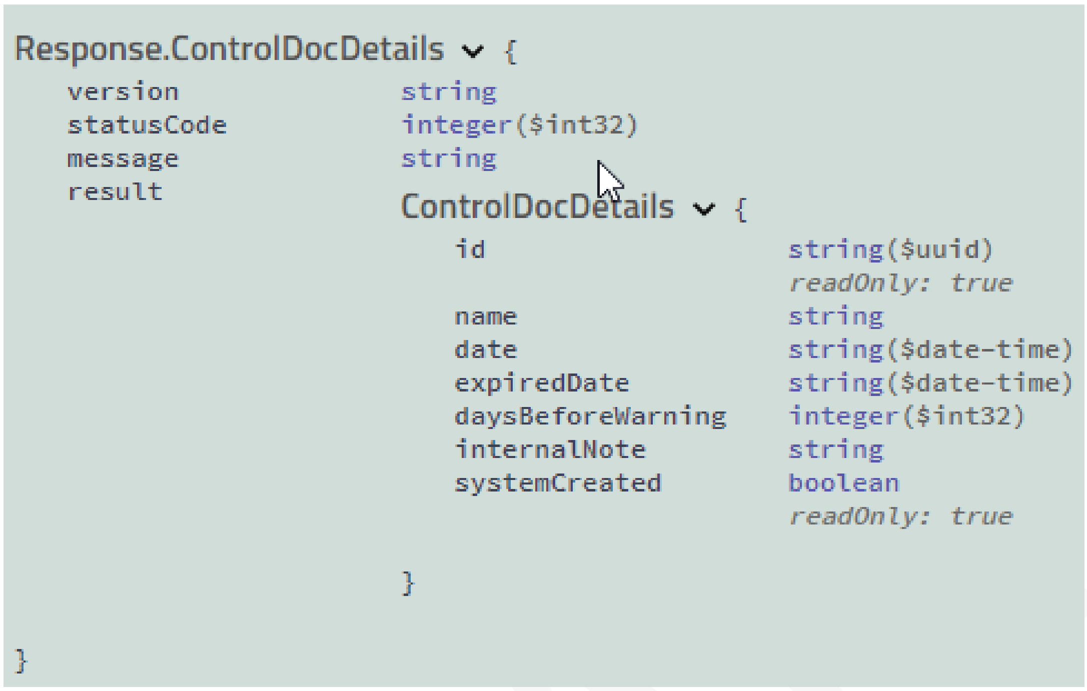
List companies control documents:



```
Response.ControlDoc ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result
                        ⌄ [
                        uniqueItems: false
                        ControlDoc ⌄ {
                            id                  string($uuid)
                            name                string
                            date                string($date-time)
                            expiredDate         string($date-time)
                            daysBeforeWarning   integer($int32)
                            systemCreated       boolean

                          }]

}
```

[POST] /COMPANY/CONTROLDOCS

Create new company control document:

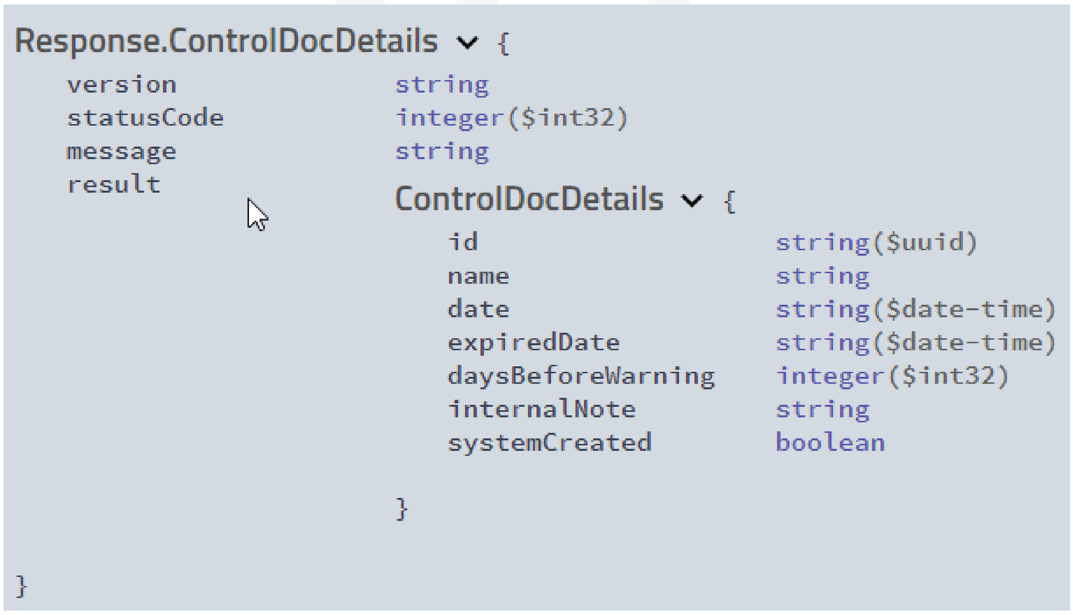


```
Response.ControlDocDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result               ControlDocDetails ⌄ {
                             id                   string($uuid)
                                                  readOnly: true
                             name                 string
                             date                 string($date-time)
                             expiredDate          string($date-time)
                             daysBeforeWarning    integer($int32)
                             internalNote         string
                             systemCreated        boolean
                                                  readOnly: true

                         }
}
```

- [REQUIRED] **ControlDoc**: the control document object

[GET] /COMPANY/CONTROLDOCS/ {CONTROLDOCID}

Get control document details from the specific company:

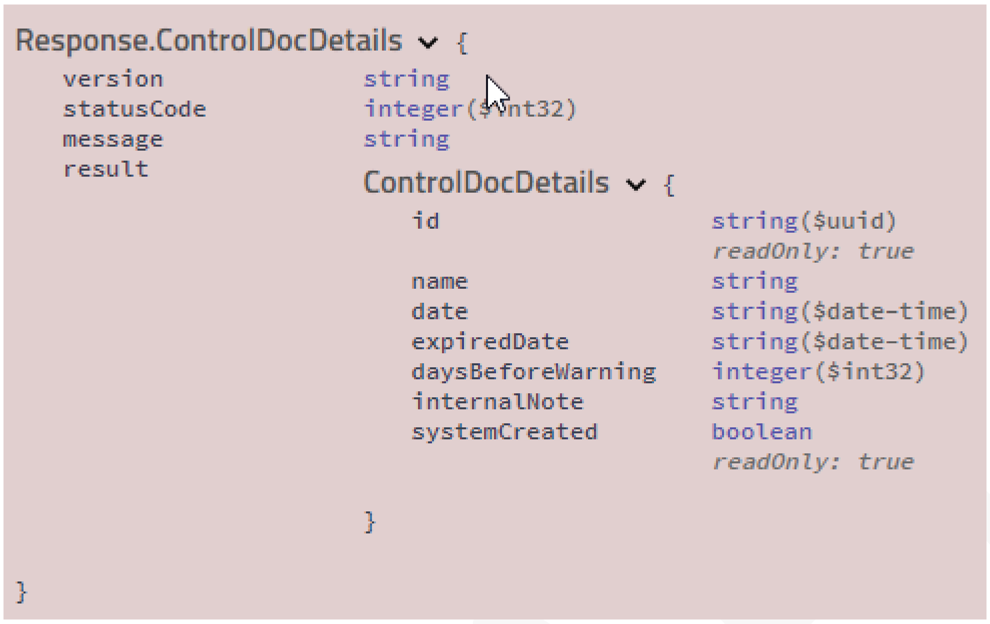


```
Response.ControlDocDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result               ControlDocDetails ⌄ {
                             id                   string($uuid)
                             name                 string
                             date                 string($date-time)
                             expiredDate          string($date-time)
                             daysBeforeWarning    integer($int32)
                             internalNote         string
                             systemCreated        boolean

                         }
}
```

- [REQUIRED] **ControlDocID**: the unique control document ID.

[DELETE] /COMPANY/CONTROLDOCS/ {CONTROLDOCID}

Delete existing company control document:

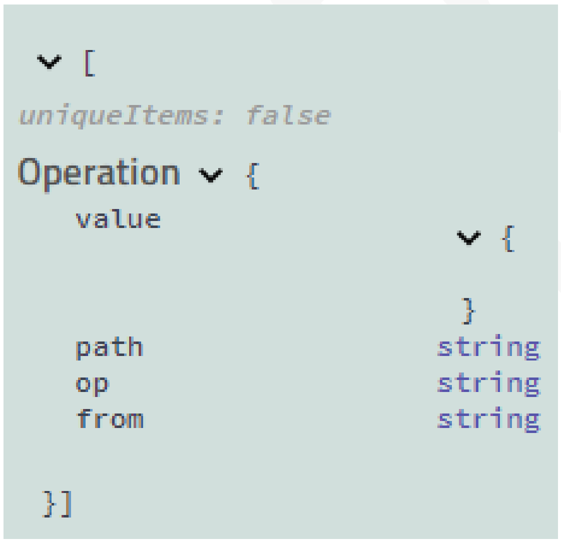


```
Response.ControlDocDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              ControlDocDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true
                            name                string
                            date                string($date-time)
                            expiredDate         string($date-time)
                            daysBeforeWarning   integer($int32)
                            internalNote        string
                            systemCreated       boolean
                                                readOnly: true
                        }
}
```

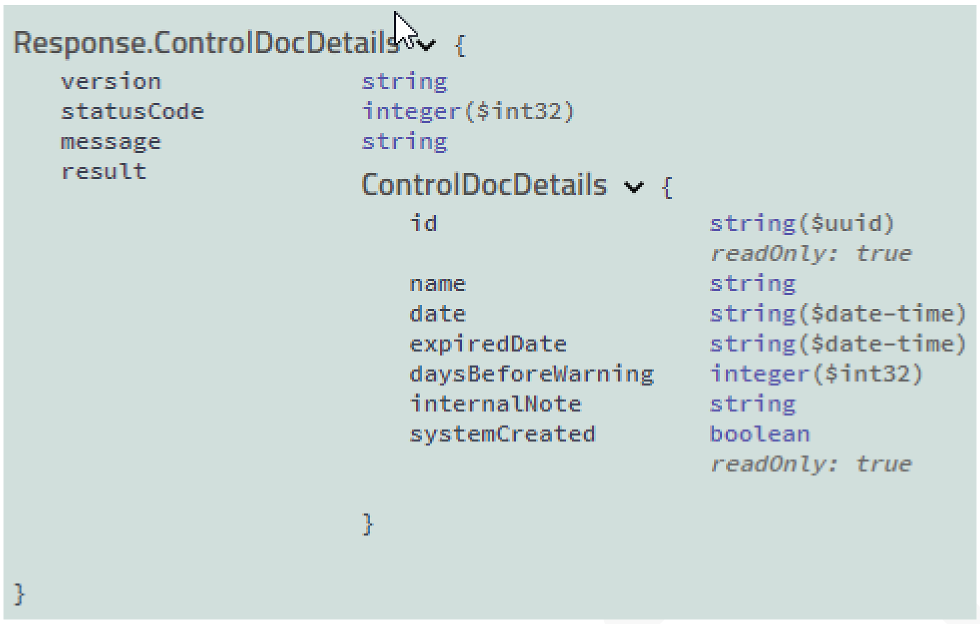
- [REQUIRED] **ControlDocID**: the unique control document ID.

[PATCH] /COMPANY/CONTROLDOCS/ {CONTROLDOCID}

Update: existing company document:



```
⌄ [
uniqueItems: false
Operation ⌄ {
    value               ⌄ {
                        }
    path                string
    op                  string
    from                string
}]
```



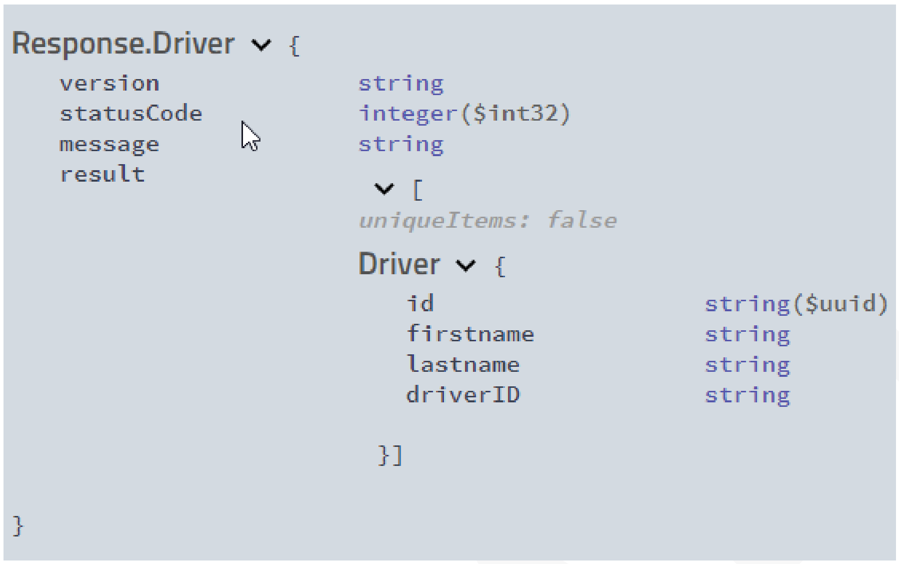
```
Response.ControlDocDetails ∨ {
    version                    string
    statusCode                 integer($int32)
    message                    string
    result                     ControlDocDetails ∨ {
                                   id                     string($uuid)
                                                          readOnly: true
                                   name                   string
                                   date                   string($date-time)
                                   expiredDate            string($date-time)
                                   daysBeforeWarning      integer($int32)
                                   internalNote           string
                                   systemCreated          boolean
                                                          readOnly: true

                               }
}
```

- [REQUIRED] **ControlDocID**: the unique control document ID.
- [REQUIRED] **ControlDoc**: the jsonPatchDocument object used to update the companys control document values

DRIVERS

[GET] /DRIVERS

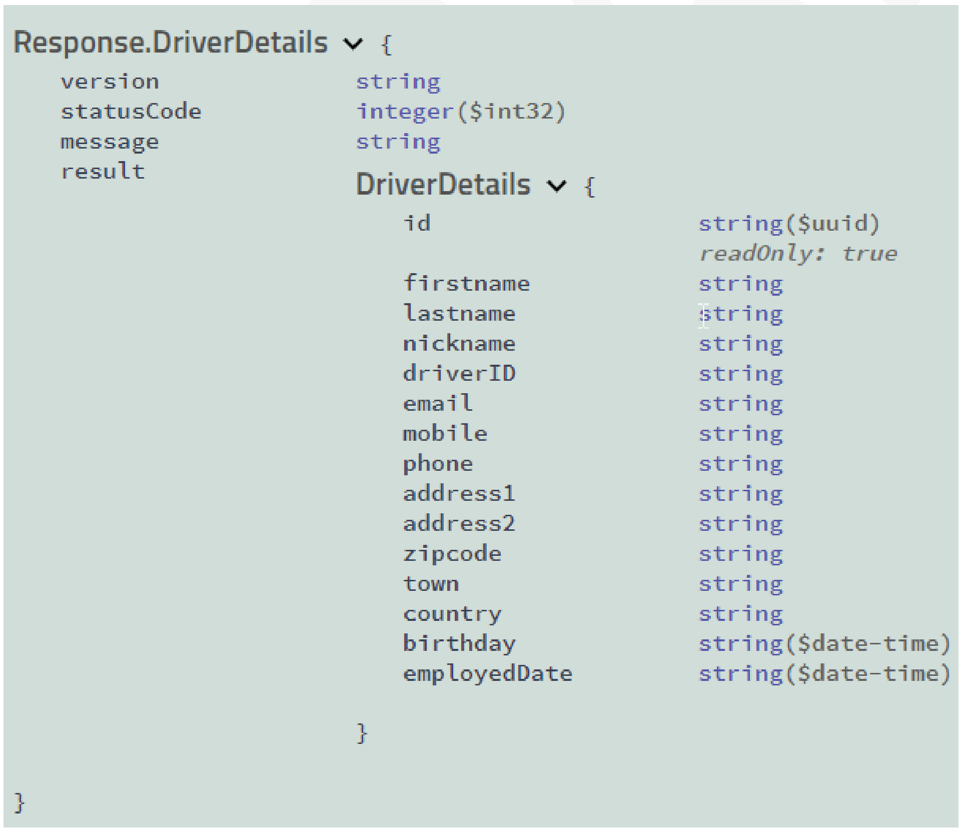
Get list of existing drivers:



```
Response.Driver ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result
                         ⌄ [
                        uniqueItems: false
                        Driver ⌄ {
                            id                  string($uuid)
                            firstname           string
                            lastname            string
                            driverID            string

                          }]

}
```

[POST] /DRIVERS

Create new Driver:

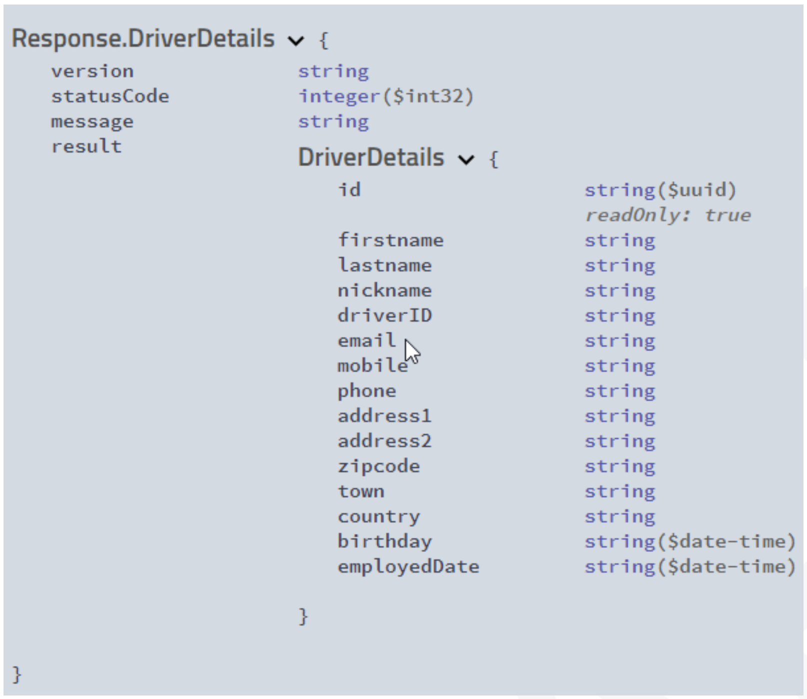


```
Response.DriverDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result
                        DriverDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true
                            firstname           string
                            lastname            string
                            nickname            string
                            driverID            string
                            email               string
                            mobile              string
                            phone               string
                            address1            string
                            address2            string
                            zipcode             string
                            town                string
                            country             string
                            birthday            string($date-time)
                            employedDate        string($date-time)

                        }

}
```

- [REQUIRED] **Driver**: driver object

[GET] /DRIVERS/{DRIVERID}

Get driver details:

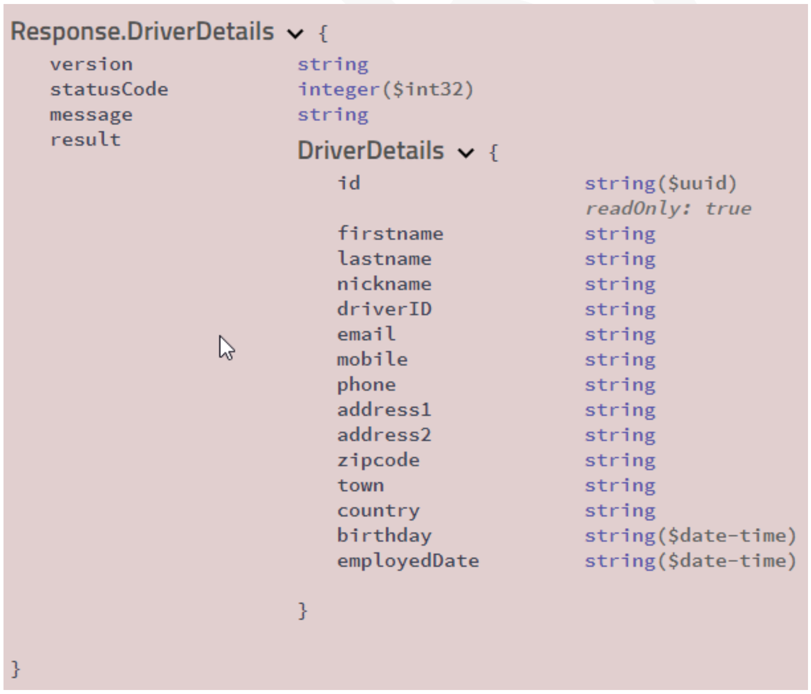


```
Response.DriverDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result               DriverDetails ⌄ {
                             id                  string($uuid)
                                                 readOnly: true
                             firstname           string
                             lastname            string
                             nickname            string
                             driverID            string
                             email               string
                             mobile              string
                             phone               string
                             address1            string
                             address2            string
                             zipcode             string
                             town                string
                             country             string
                             birthday            string($date-time)
                             employedDate        string($date-time)

                         }
}
```

- [REQUIRED] **DriverID**: the unique driver ID.

[DELETE] /DRIVERS/{DRIVERID}

Delete existing driver:

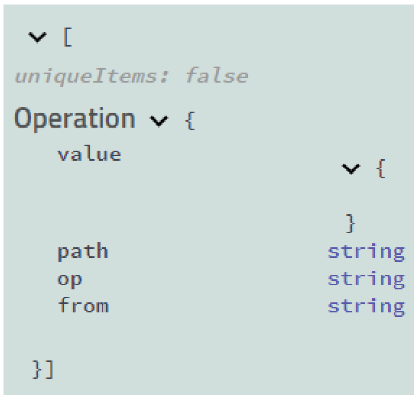


```
Response.DriverDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result               DriverDetails ⌄ {
                             id                  string($uuid)
                                                 readOnly: true
                             firstname           string
                             lastname            string
                             nickname            string
                             driverID            string
                             email               string
                             mobile              string
                             phone               string
                             address1            string
                             address2            string
                             zipcode             string
                             town                string
                             country             string
                             birthday            string($date-time)
                             employedDate        string($date-time)

                         }
}
```

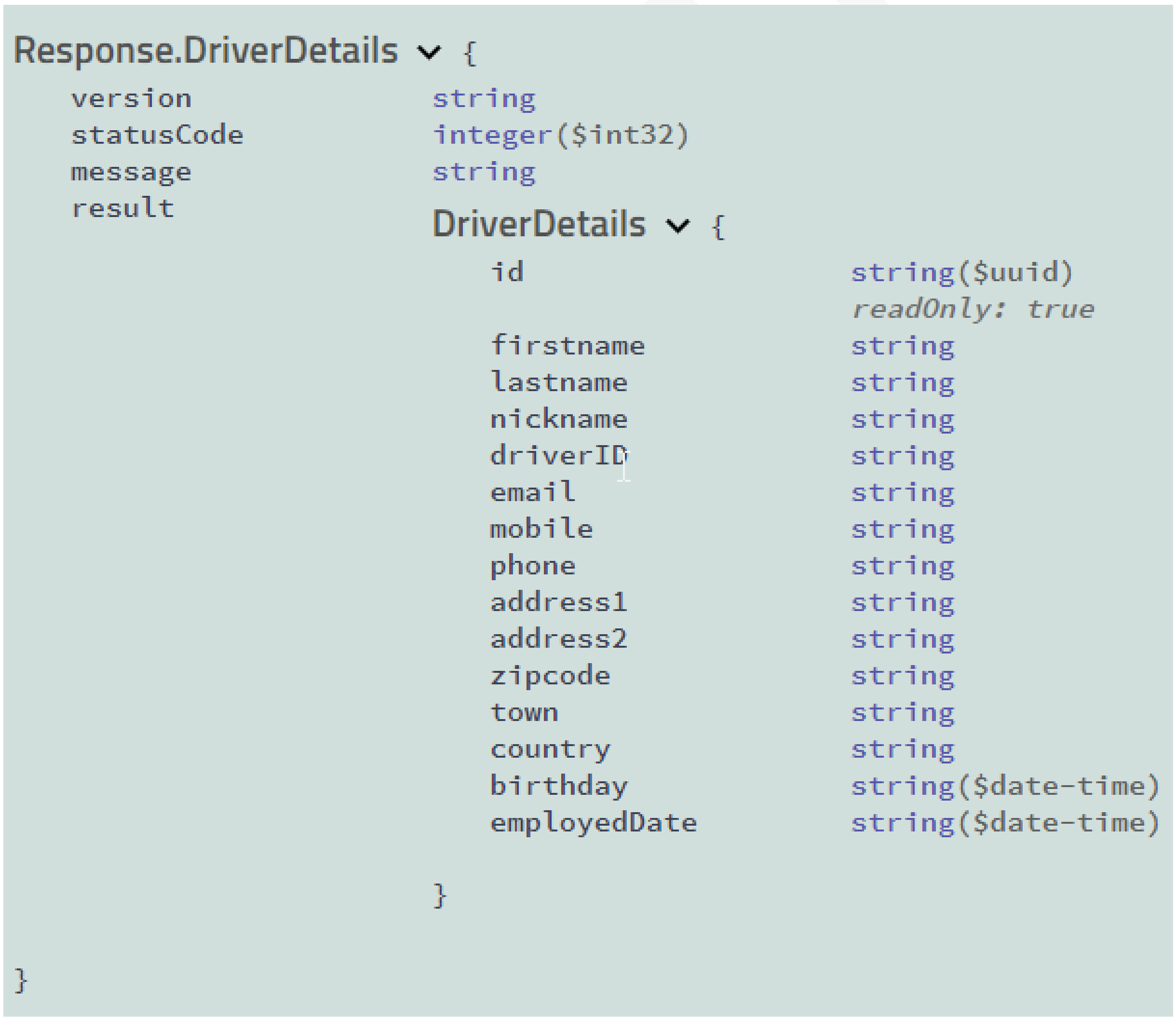
- [REQUIRED] **DriverID**: the unique driver ID.

[PATCH] /DRIVERS/{DRIVERID}

Update existing driver:



```
⌄ [
uniqueItems: false
Operation ⌄ {
   value                     ⌄ {

                              }
   path                      string
   op                        string
   from                      string

 }]
```

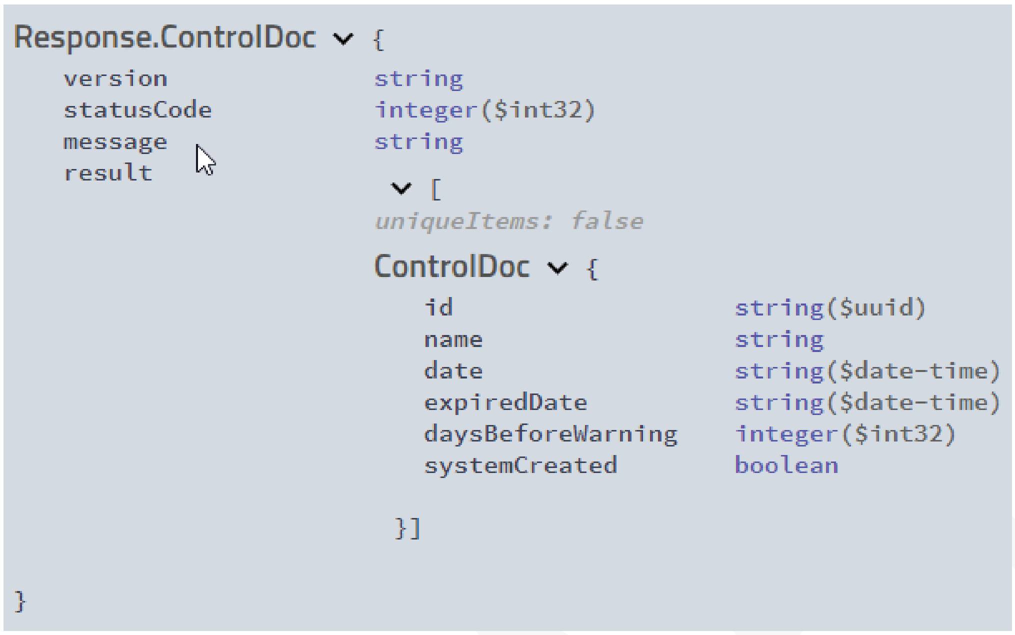


```
Response.DriverDetails ⌄ {
    version            string
    statusCode         integer($int32)
    message            string
    result             DriverDetails ⌄ {
                           id             string($uuid)
                                          readOnly: true
                           firstname      string
                           lastname       string
                           nickname       string
                           driverID       string
                           email          string
                           mobile         string
                           phone          string
                           address1       string
                           address2       string
                           zipcode        string
                           town           string
                           country        string
                           birthday       string($date-time)
                           employedDate   string($date-time)

                       }

}
```

- [REQUIRED] **DriverID**: the unique driver ID.
- [REQUIRED] **Driver**: the jsonPatchDocument object used to update the driver values

[GET] /DRIVERS/{DRIVERID}/CONTROLDOCS

List drivers control documents:

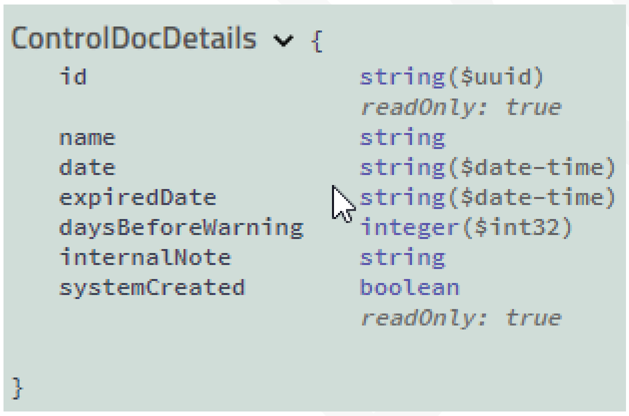


```
Response.ControlDoc ⌄ {
   version                   string
   statusCode                integer($int32)
   message                   string
   result
                              ⌄ [
                             uniqueItems: false
                             ControlDoc ⌄ {
                                id                    string($uuid)
                                name                  string
                                date                  string($date-time)
                                expiredDate           string($date-time)
                                daysBeforeWarning     integer($int32)
                                systemCreated         boolean

                              }]

}
```

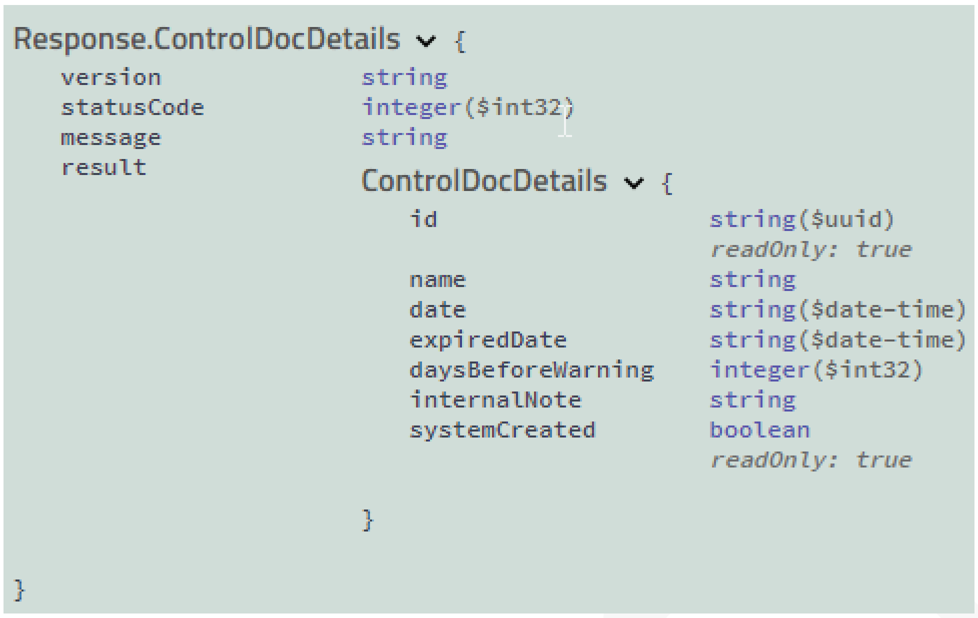
- [REQUIRED] **DriverID**: the unique driver ID.

[POST] /DRIVERS/{DRIVERID}/CONTROLDOCS

Create new driver control document:



```
ControlDocDetails ⌄ {
   id                     string($uuid)
                          readOnly: true
   name                   string
   date                   string($date-time)
   expiredDate            string($date-time)
   daysBeforeWarning      integer($int32)
   internalNote           string
   systemCreated          boolean
                          readOnly: true

}
```

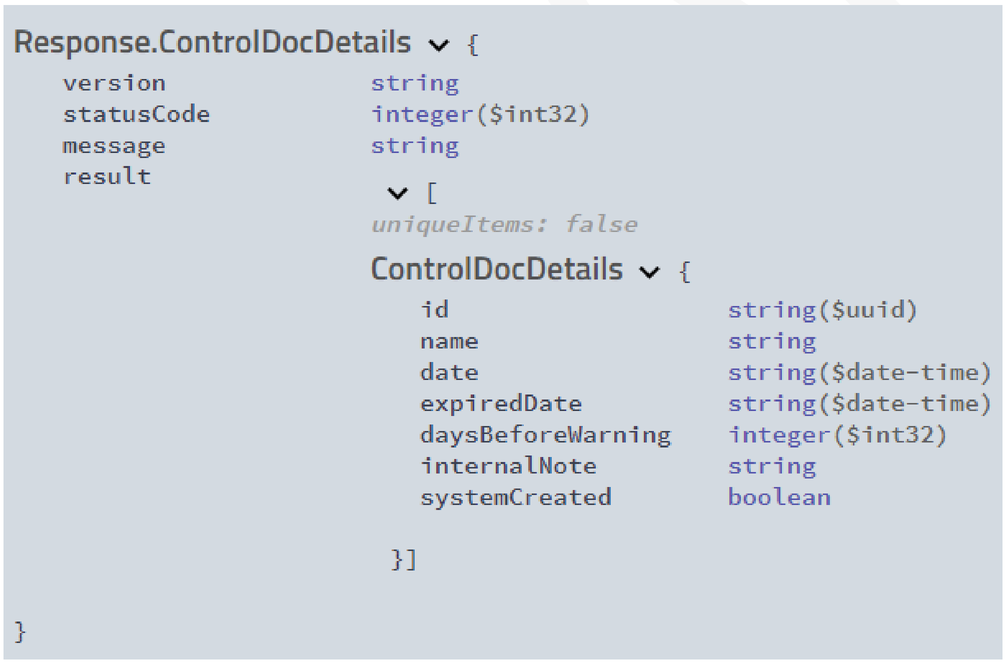


```
Response.ControlDocDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  ControlDocDetails ⌄ {
                                id                  string($uuid)
                                                    readOnly: true
                                name                string
                                date                string($date-time)
                                expiredDate         string($date-time)
                                daysBeforeWarning   integer($int32)
                                internalNote        string
                                systemCreated       boolean
                                                    readOnly: true

                            }
}
```

- [REQUIRED] **DriverID**: the unique driver ID.
- [REQUIRED] **ControlDoc**: the control document object

[GET] /DRIVERS/{DRIVERID}/CONTROLDOCS/{CONTROLDOCID}

Get control document details from specific driver:

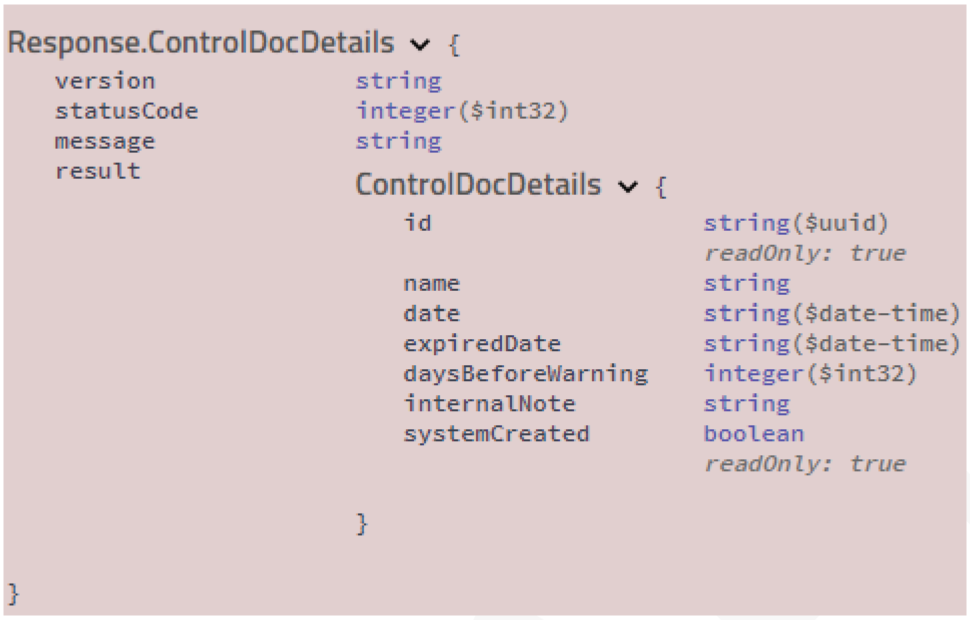


```
Response.ControlDocDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                   ⌄ [
                            uniqueItems: false
                            ControlDocDetails ⌄ {
                                id                  string($uuid)
                                name                string
                                date                string($date-time)
                                expiredDate         string($date-time)
                                daysBeforeWarning   integer($int32)
                                internalNote        string
                                systemCreated       boolean

                              }]
}
```

- [REQUIRED] **DriverID**: the unique driver ID.
- [REQUIRED] **ControlDocID**: the unique control document ID.

[DELETE] /DRIVERS/{DRIVERID}/CONTROLDOCS/{CONTROLDOCID}

Delete existing driver control document:

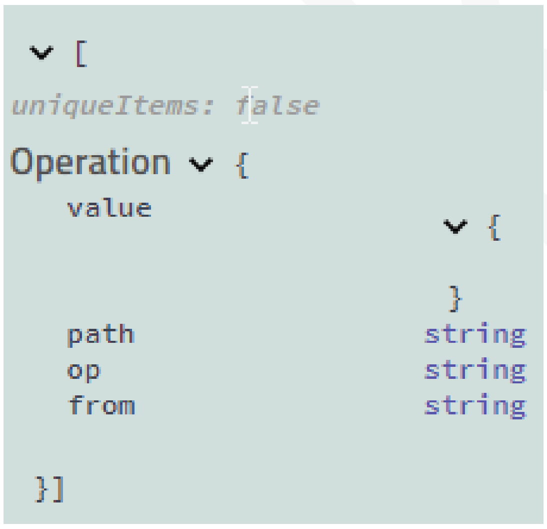


```
Response.ControlDocDetails ⌄ {
    version                  string
    statusCode               integer($int32)
    message                  string
    result
                             ControlDocDetails ⌄ {
                                 id                  string($uuid)
                                                     readOnly: true
                                 name                string
                                 date                string($date-time)
                                 expiredDate         string($date-time)
                                 daysBeforeWarning   integer($int32)
                                 internalNote        string
                                 systemCreated       boolean
                                                     readOnly: true

                             }

}
```

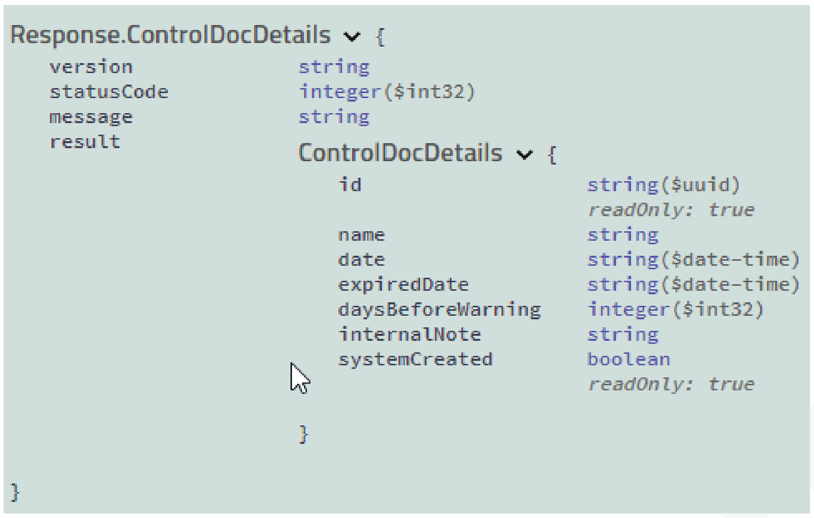
- [REQUIRED] **DriverID**: the unique driver ID.
- [REQUIRED] **ControlDocID**: the unique control document ID.

[PATCH] /DRIVERS/{DRIVERID}/CONTROLDOCS/{CONTROLDOCID}

Update existing driver control document:



```
 ⌄ [
uniqueItems: false
Operation ⌄ {
    value
                         ⌄ {

                          }
    path                 string
    op                   string
    from                 string

 }]
```

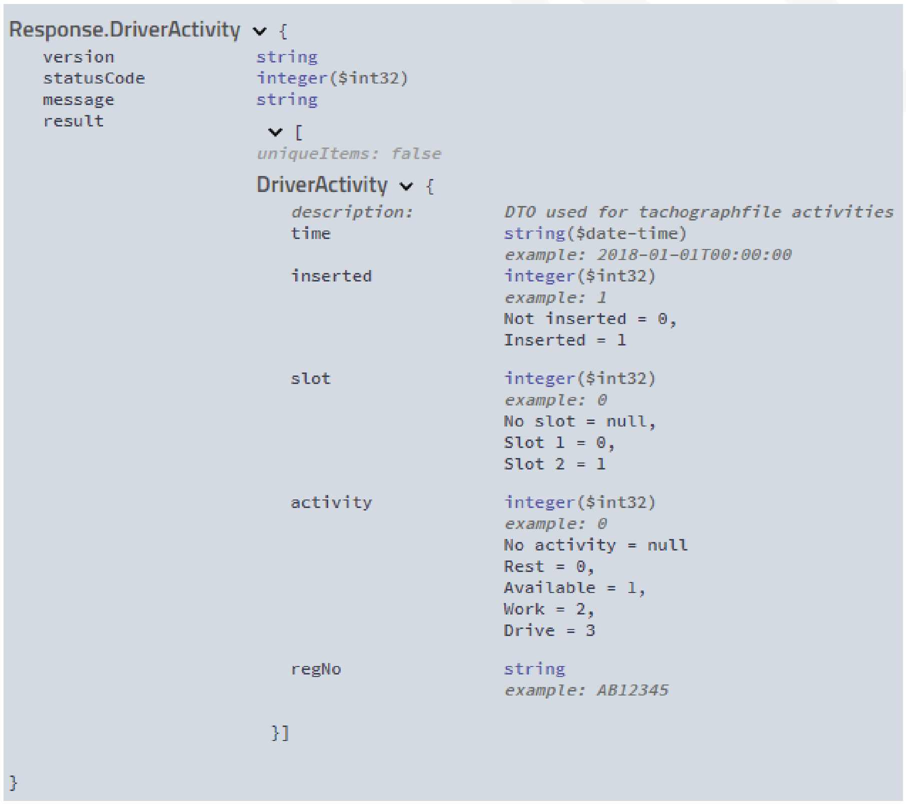


```
Response.ControlDocDetails ⌄ {
   version                string
   statusCode             integer($int32)
   message                string
   result                 ControlDocDetails ⌄ {
                             id                    string($uuid)
                                                   readOnly: true

                             name                  string
                             date                  string($date-time)
                             expiredDate           string($date-time)
                             daysBeforeWarning     integer($int32)
                             internalNote          string
                             systemCreated         boolean
                                                   readOnly: true

                          }
}
```

- [REQUIRED] **DriverID**: the unique driver ID.
- [REQUIRED] **ControlDocID**: the unique control document ID.
- [REQUIRED] **ControlDoc**: the jsonPatchDocument object used to update the drivers control document values

[GET] /DRIVERS/{DRIVERID}/TACHOACTIVITY /{ACTIVITYMIN }/{ACTIVITYMAX }

Get Tacho activity details from a specific driver:



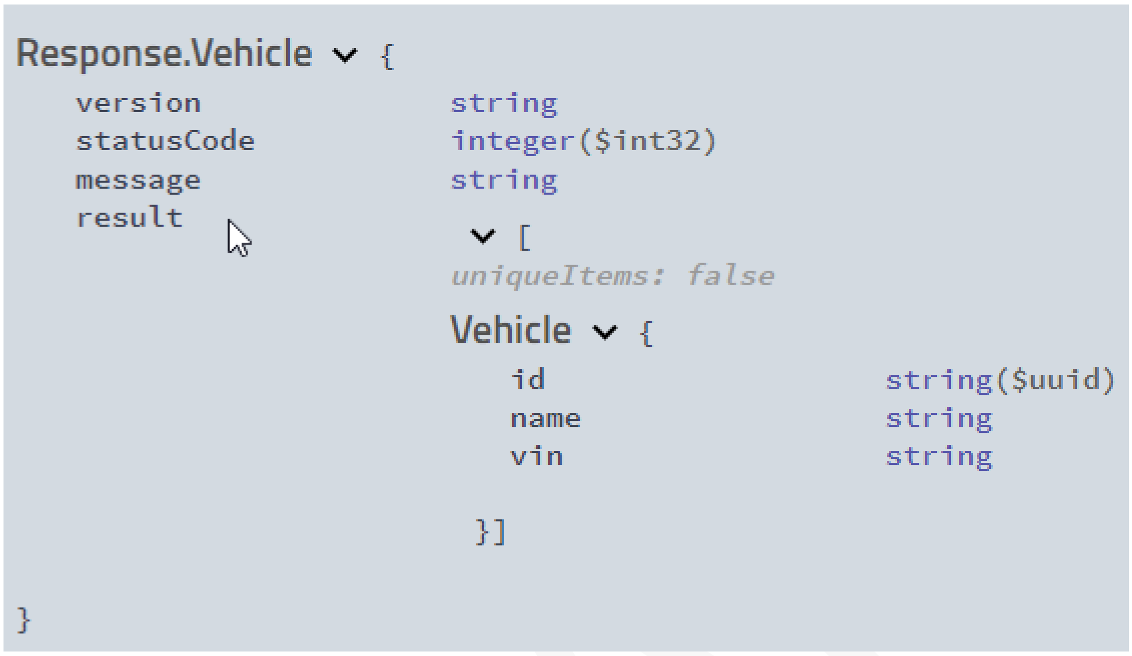
```
Response.DriverActivity ⌄ {
   version               string
   statusCode            integer($int32)
   message               string
   result                ⌄ [
                         uniqueItems: false
                         DriverActivity ⌄ {
                            description:          DTO used for tachographfile activities
                            time                  string($date-time)
                                                  example: 2018-01-01T00:00:00
                            inserted              integer($int32)
                                                  example: 1
                                                  Not inserted = 0,
                                                  Inserted = 1

                            slot                  integer($int32)
                                                  example: 0
                                                  No slot = null,
                                                  Slot 1 = 0,
                                                  Slot 2 = 1

                            activity              integer($int32)
                                                  example: 0
                                                  No activity = null
                                                  Rest = 0,
                                                  Available = 1,
                                                  Work = 2,
                                                  Drive = 3

                            regNo                 string
                                                  example: AB12345

                          }]
}
```

- [REQUIRED] **DriverID**: the unique driver ID.
- [REQUIRED] **ActivityMin**: the minimum activity date
- [REQUIRED] **ActivityMax**: the maximum activity date

VEHICLE

[GET] /VEHICLES

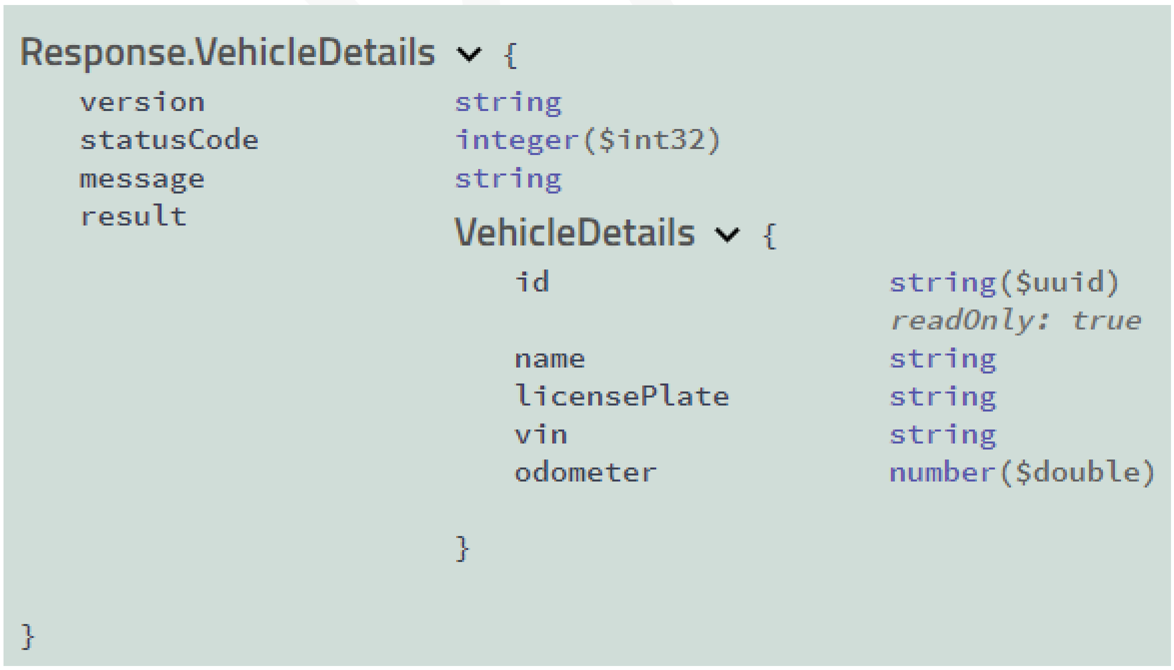
Get list of existing vehicles:



```
Response.Vehicle ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result                ⌄ [
                         uniqueItems: false
                         Vehicle ⌄ {
                             id                  string($uuid)
                             name                string
                             vin                 string

                          }]
}
```

[POST] /VEHICLES

Create new vehicle:

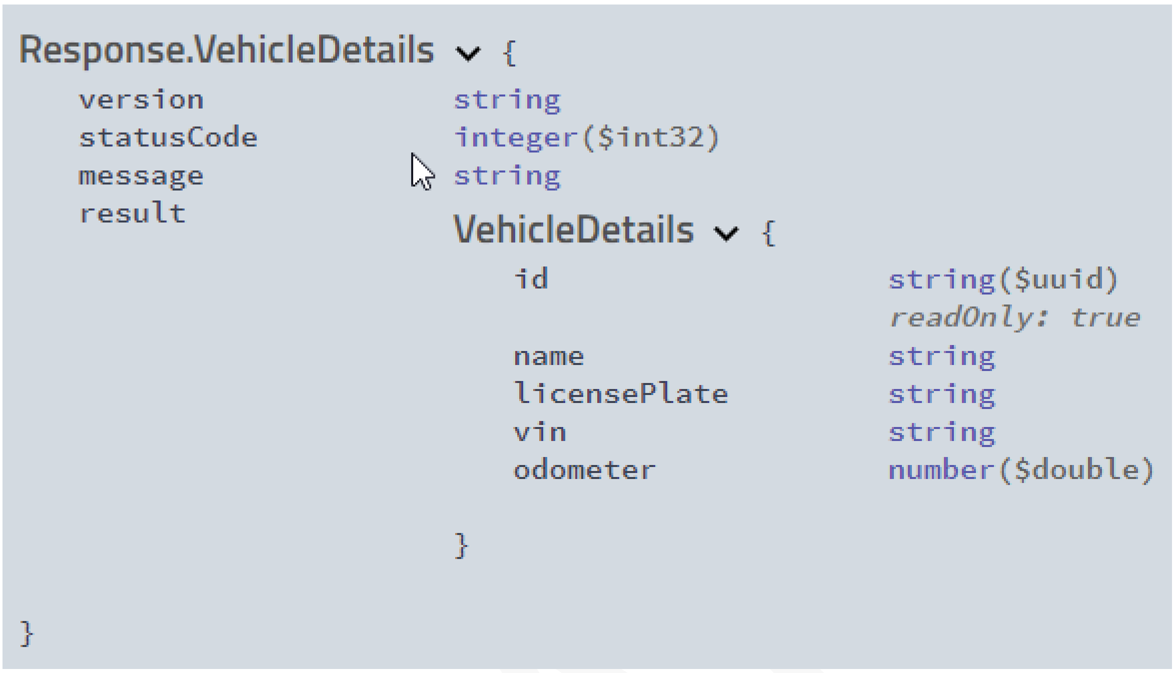


```
Response.VehicleDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result               VehicleDetails ⌄ {
                             id                  string($uuid)
                                                 readOnly: true
                             name                string
                             licensePlate        string
                             vin                 string
                             odometer            number($double)

                         }

}
```

- [REQUIRED] **Vehicle**: Vehicle object

[GET] /VEHICLES/{VEHICLEID}

Get vehicle details:

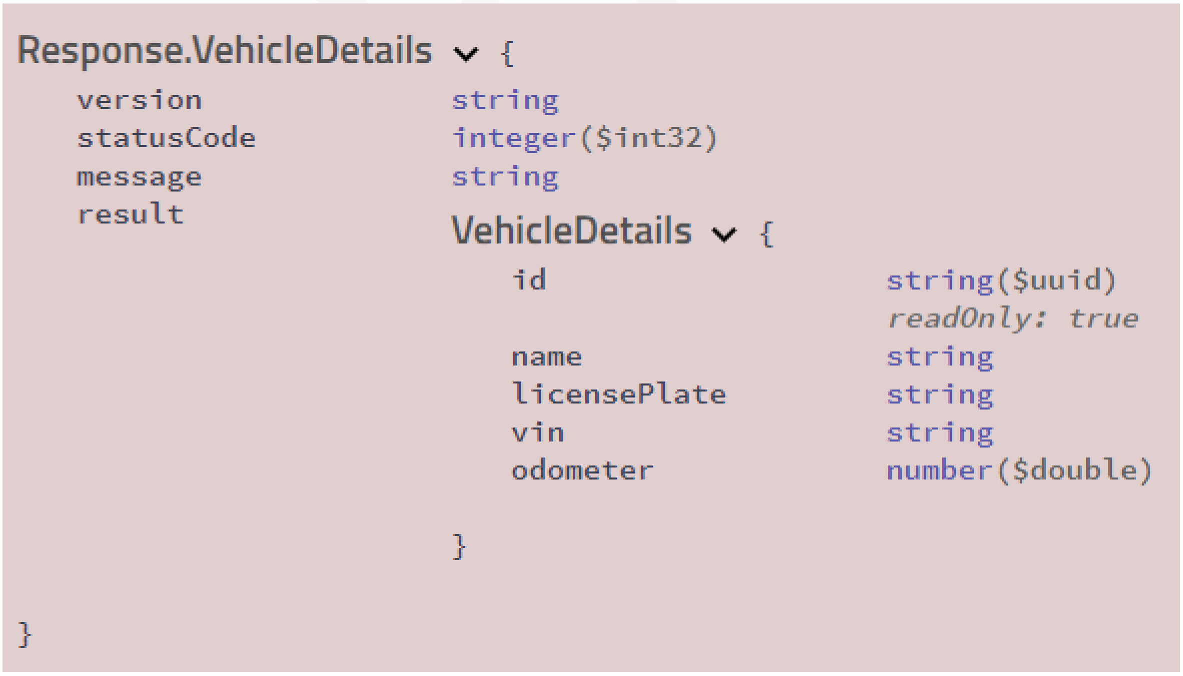


```
Response.VehicleDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              VehicleDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true
                            name                string
                            licensePlate        string
                            vin                 string
                            odometer            number($double)
                        }
}
```

- [REQUIRED] **VehicleID**: the unique vehicle ID.

[DELETE] /VEHICLES/{VEHICLEID}

Delete existing vehicle:

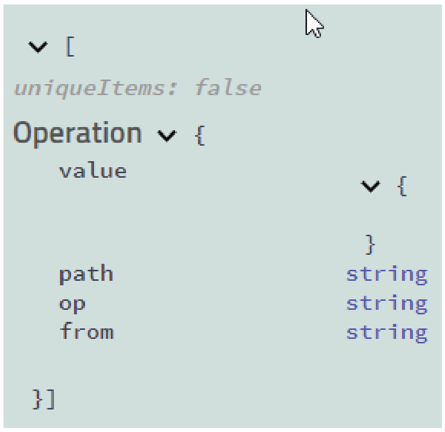


```
Response.VehicleDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              VehicleDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true
                            name                string
                            licensePlate        string
                            vin                 string
                            odometer            number($double)
                        }
}
```

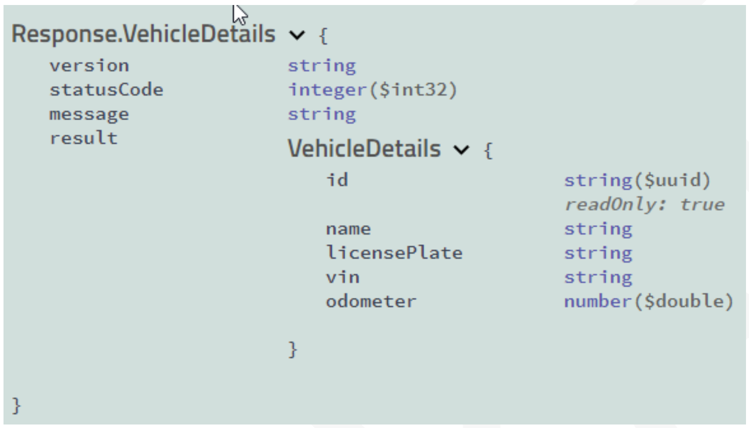
- [REQUIRED] **VehicleID**: the unique vehicle ID.

[PATCH] /VEHICLES/{VEHICLEID}

Update existing vehicle:



```
⌄ [
uniqueItems: false
Operation ⌄ {
    value                        ⌄ {

                                 }
    path                       string
    op                         string
    from                       string

 }]
```

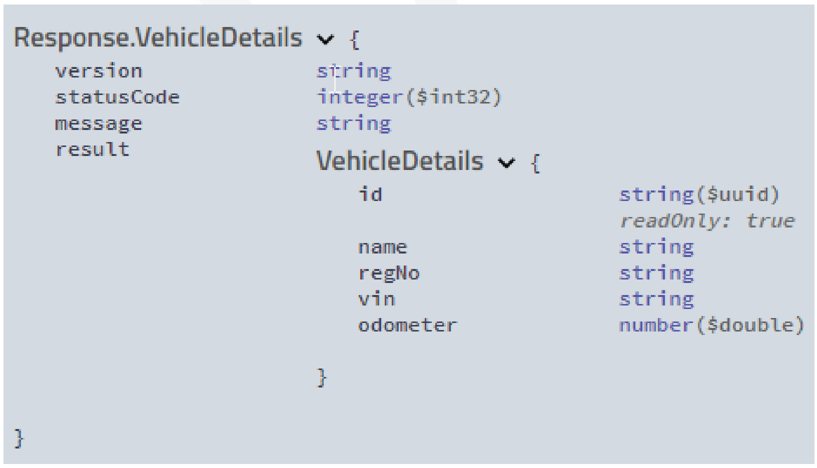


```
Response.VehicleDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  VehicleDetails ⌄ {
                                id                  string($uuid)
                                                    readOnly: true
                                name                string
                                licensePlate        string
                                vin                 string
                                odometer            number($double)

                            }
}
```

- [REQUIRED] **VehicleID**: the unique vehicle ID.
- [REQUIRED] **Vehicle**: the jsonPatchDocument object used to update the vehicle values.

[GET] /VEHICLES/{REGNO}

Get vehicle details from vehicle registration number:

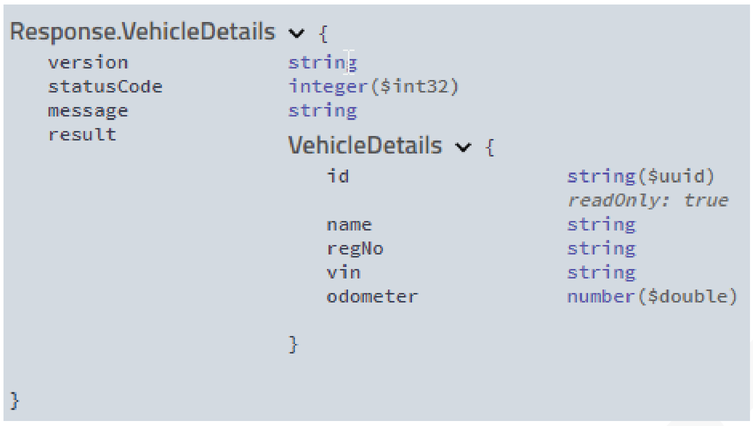


```
Response.VehicleDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  VehicleDetails ⌄ {
                                id                  string($uuid)
                                                    readOnly: true
                                name                string
                                regNo               string
                                vin                 string
                                odometer            number($double)

                            }
}
```

- [REQUIRED] **RegNo**: the vehicles registration number

[GET] /VEHICLES/{VIN}

Get vehicle details from vehicle identification number:

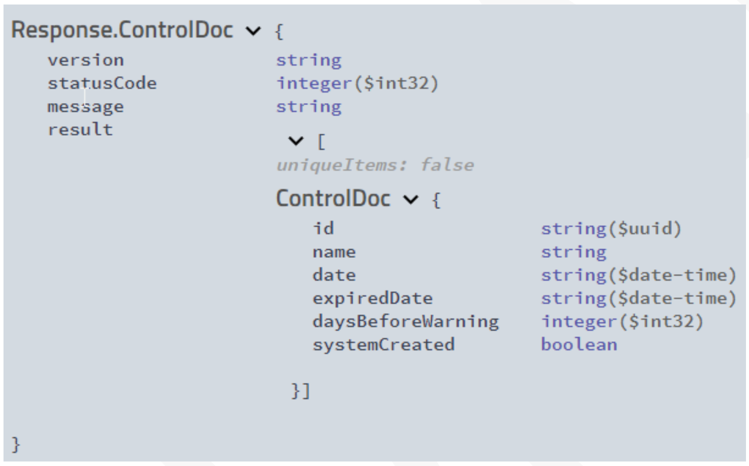


```
Response.VehicleDetails ⌄ {
    version               string
    statusCode            integer($int32)
    message               string
    result                VehicleDetails ⌄ {
                              id                    string($uuid)
                                                    readOnly: true

                              name                  string
                              regNo                 string
                              vin                   string
                              odometer              number($double)

                          }
}
```

- [REQUIRED] **VIN**: the vehicles identification number

[GET] /VEHICLES/{VEHICLEID}/CONTROLDOCS

List vehicles control documents:

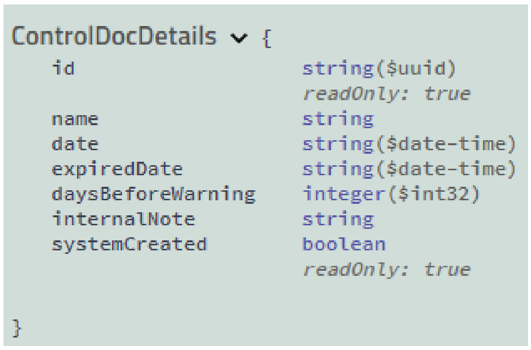


```
Response.ControlDoc ⌄ {
    version               string
    statusCode            integer($int32)
    message               string
    result                ⌄ [
                          uniqueItems: false
                          ControlDoc ⌄ {
                              id                    string($uuid)
                              name                  string
                              date                  string($date-time)
                              expiredDate           string($date-time)
                              daysBeforeWarning     integer($int32)
                              systemCreated         boolean

                          }]
}
```

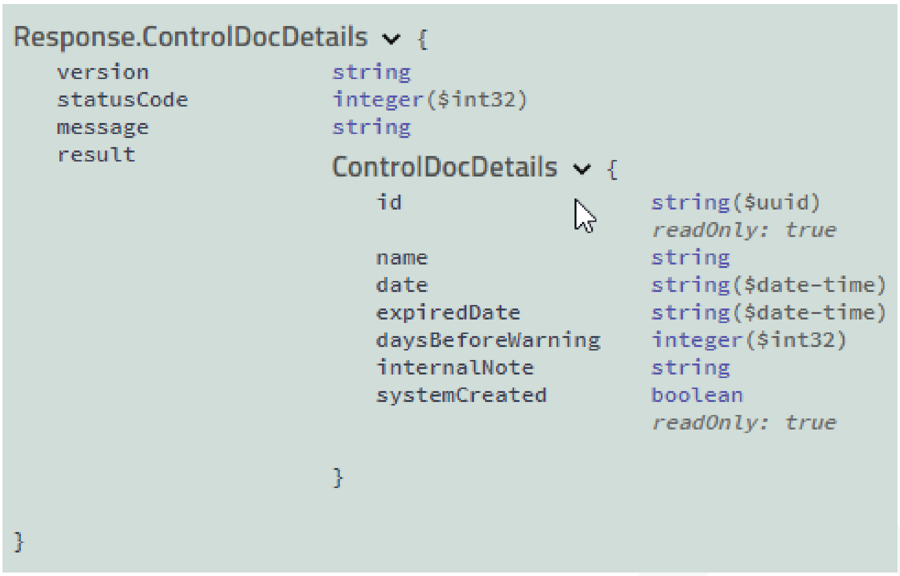
- [REQUIRED] **VehicleID**: the unique vehicle ID.

[POST] /VEHICLES/{VEHICLEID}/CONTROLDOCS

Create new vehicle control document:



```
ControlDocDetails ⌄ {
    id                    string($uuid)
                          readOnly: true

    name                  string
    date                  string($date-time)
    expiredDate           string($date-time)
    daysBeforeWarning     integer($int32)
    internalNote          string
    systemCreated         boolean
                          readOnly: true

}
```

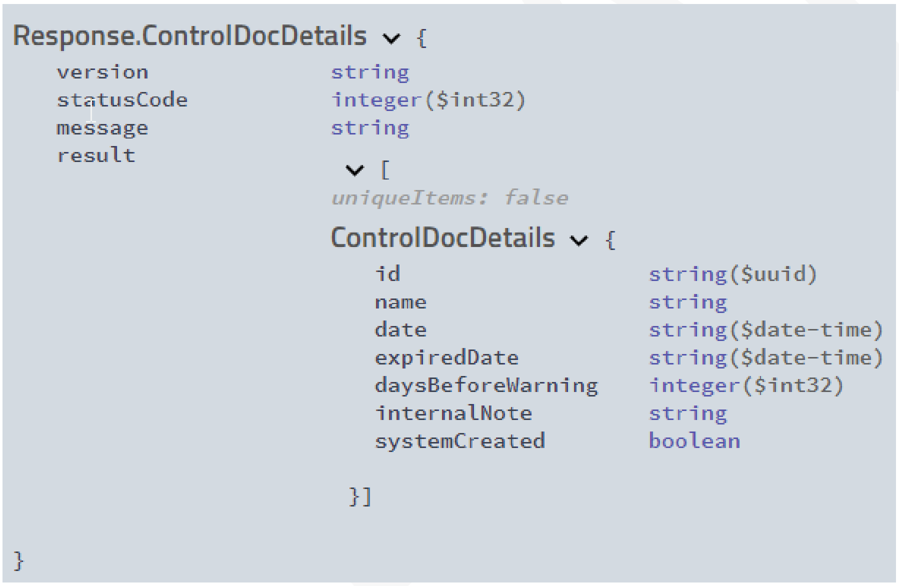


```
Response.ControlDocDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              ControlDocDetails ⌄ {
                            id                      string($uuid)
                                                    readOnly: true
                            name                    string
                            date                    string($date-time)
                            expiredDate             string($date-time)
                            daysBeforeWarning       integer($int32)
                            internalNote            string
                            systemCreated           boolean
                                                    readOnly: true

                        }
}
```

- [REQUIRED] **VehicleID**: the unique vehicle ID.
- [REQUIRED] **ControlDoc**: the control document object.

[GET] /VEHICLES/{VEHICLEID}/CONTROLDOCS/{CONTROLDOCID}

Get control document details from specific vehicle:

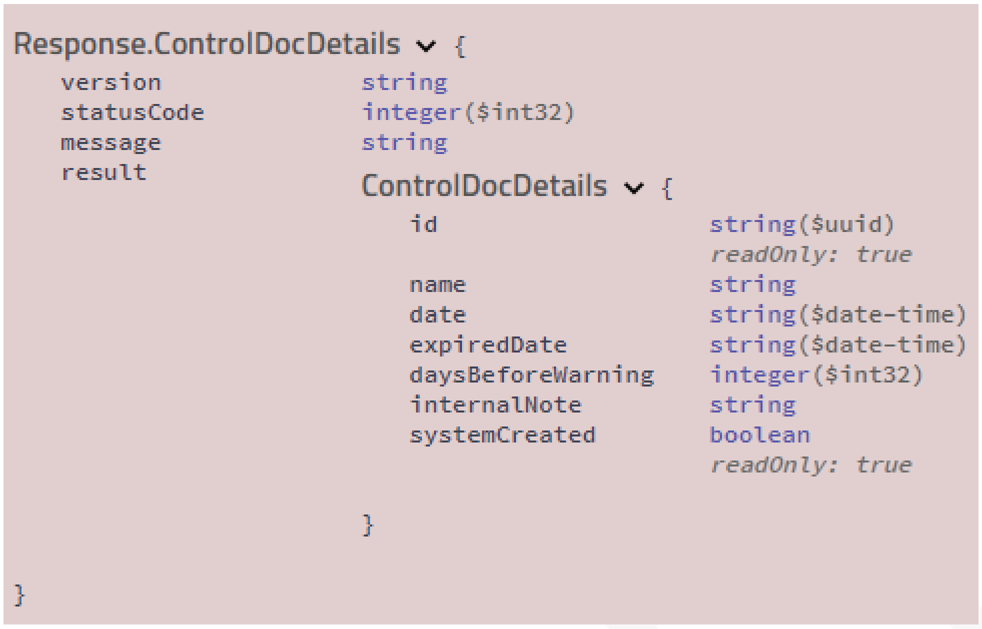


```
Response.ControlDocDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result               ⌄ [
                        uniqueItems: false
                        ControlDocDetails ⌄ {
                            id                      string($uuid)
                            name                    string
                            date                    string($date-time)
                            expiredDate             string($date-time)
                            daysBeforeWarning       integer($int32)
                            internalNote            string
                            systemCreated           boolean

                          }]
}
```

- [REQUIRED] **VehicleID**: the unique vehicle ID.
- [REQUIRED] **ControlDocID**: the unique control document ID.

[DELETE] /VEHICLES/{VEHICLEID}/CONTROLDOCS/{CONTROLDOCID}

Delete existing vehicle control document:

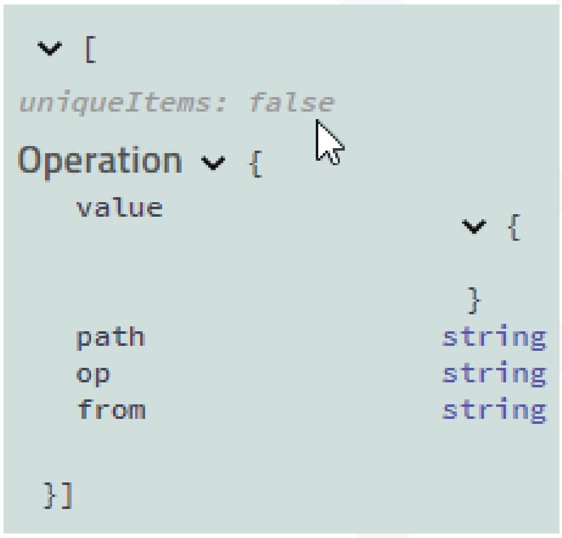


```
Response.ControlDocDetails ⌄ {
   version               string
   statusCode            integer($int32)
   message               string
   result                ControlDocDetails ⌄ {
                            id                   string($uuid)
                                                 readOnly: true
                            name                 string
                            date                 string($date-time)
                            expiredDate          string($date-time)
                            daysBeforeWarning    integer($int32)
                            internalNote         string
                            systemCreated        boolean
                                                 readOnly: true

                         }
}
```

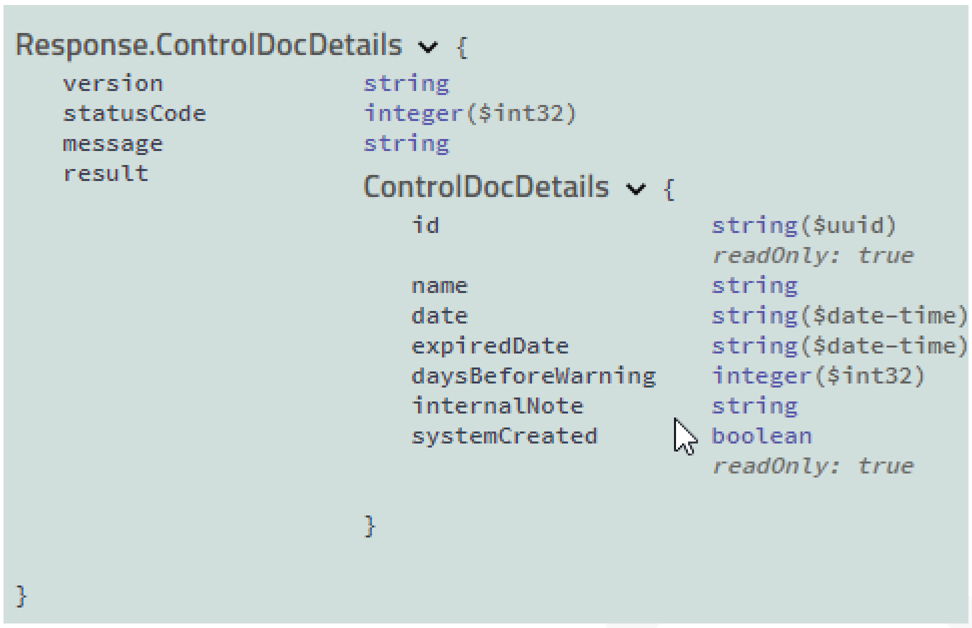
- [REQUIRED] **VehicleID**: the unique vehicle ID.
- [REQUIRED] **ControlDocID**: the unique control document ID.

[PATCH] /VEHICLES/{VEHICLEID}/CONTROLDOCS/{CONTROLDOCID}

Update existing vehicle control document:



```
 ⌄ [
uniqueItems: false
Operation ⌄ {
   value                   ⌄ {

                           }
   path                   string
   op                     string
   from                   string

 }]
```



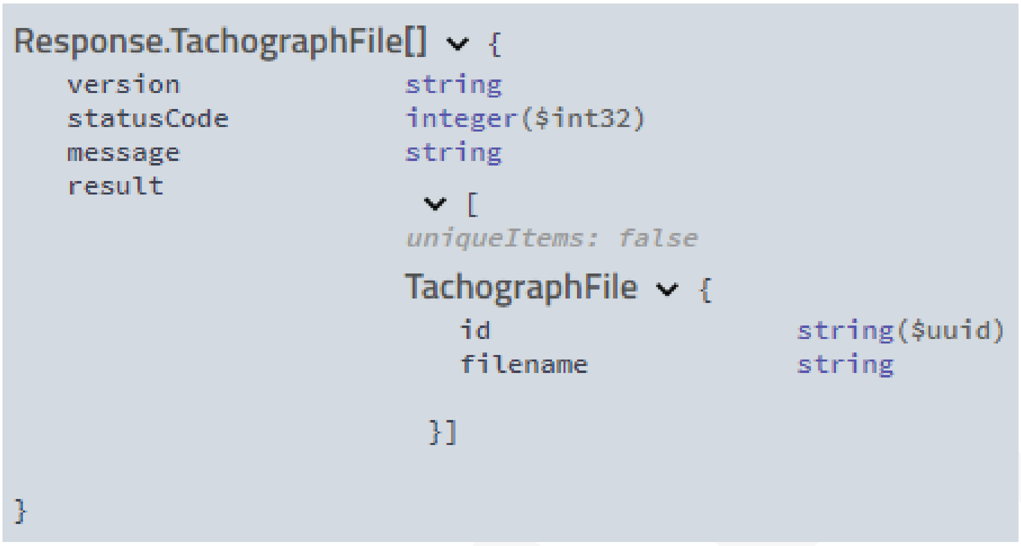
```
Response.ControlDocDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  ControlDocDetails ⌄ {
                                id                  string($uuid)
                                                    readOnly: true
                                name                string
                                date                string($date-time)
                                expiredDate         string($date-time)
                                daysBeforeWarning   integer($int32)
                                internalNote        string
                                systemCreated       boolean
                                                    readOnly: true

                            }
}
```

- [REQUIRED] **VehicleID**: the unique vehicle ID.
- [REQUIRED] **ControlDocID**: the unique control document ID.
- [REQUIRED] **ControlDoc**: the jsonPatchDocument object used to update the vehicles control document values

TACHOGRAPHFILES

[GET] /TACHOGRAPHFILES

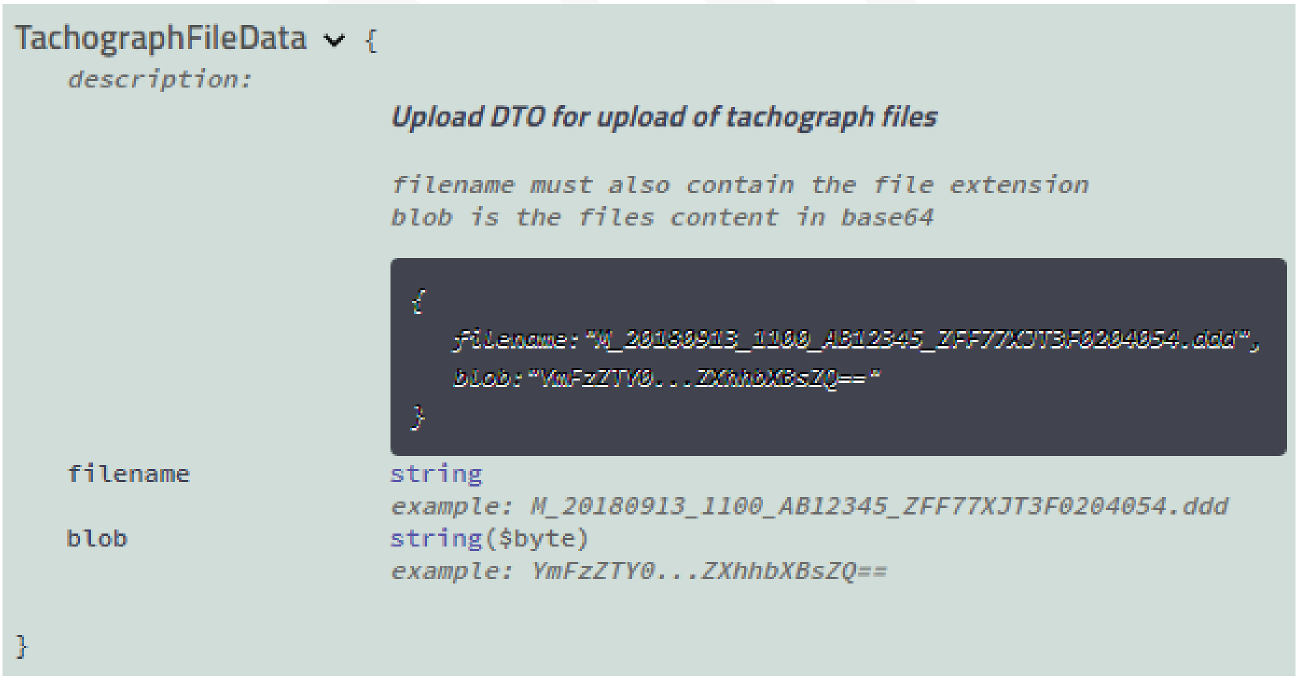
Gets a list of existing tachograph files:



```
Response.TachographFile[] ⌄ {
    version                  string
    statusCode               integer($int32)
    message                  string
    result
                               ⌄ [
                             uniqueItems: false
                             TachographFile ⌄ {
                                 id                   string($uuid)
                                 filename             string

                              }]

}
```

[POST] /TACHOGRAPHFILES

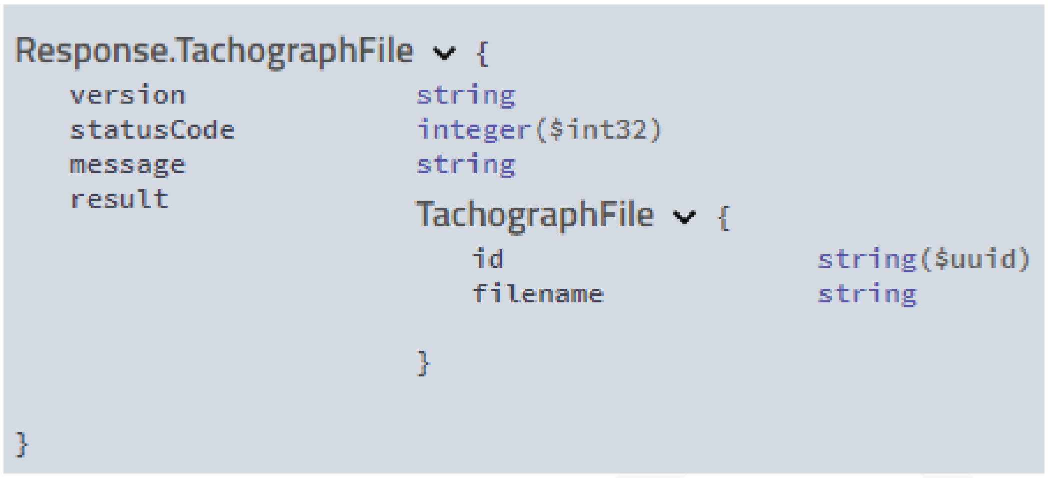
Upload a tachograph file to Tacho Online:



```
TachographFileData ⌄ {
    description:
                            Upload DTO for upload of tachograph files

                            filename must also contain the file extension
                            blob is the files content in base64

                            {
                               filename:"M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd",
                               blob:"YmFzZTY0...ZXhhbXBsZQ=="
                            }
    filename                string
                            example: M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd
    blob                    string($byte)
                            example: YmFzZTY0...ZXhhbXBsZQ==

}
```

[GET] /TACHOGRAPHFILES/{TACHOGRAPHFILEID}

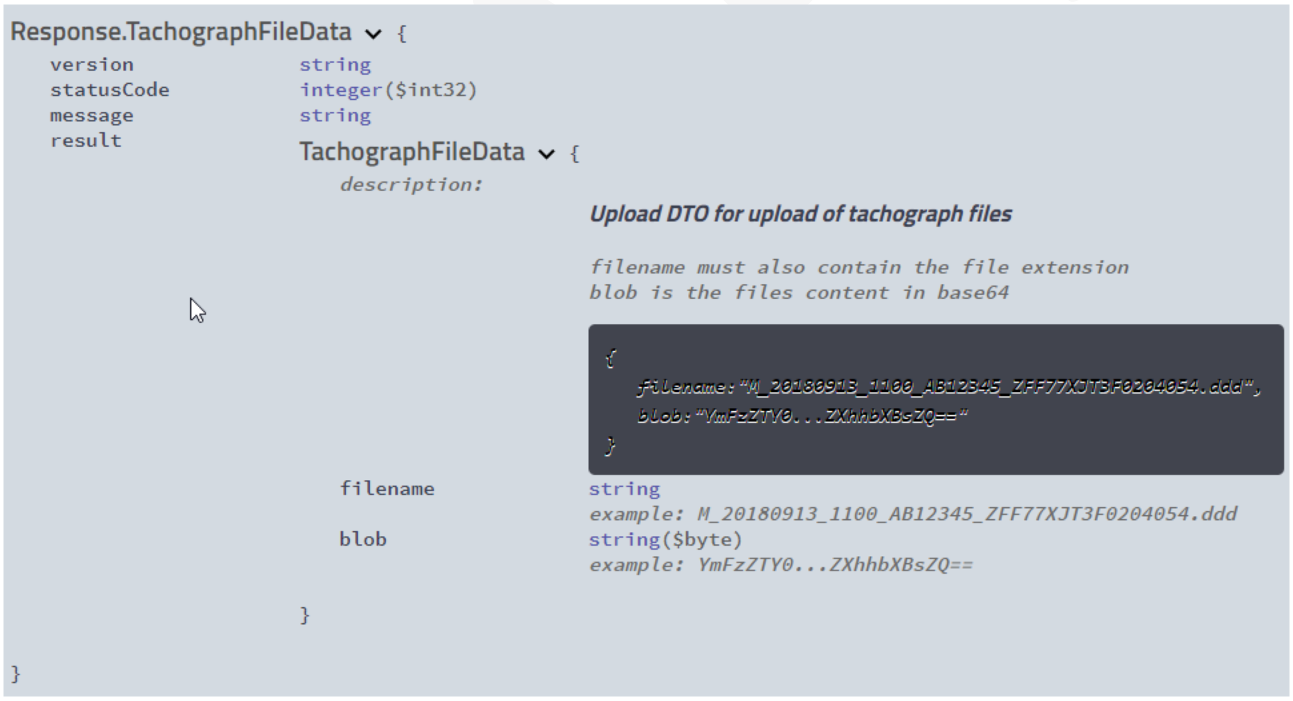
Read information about existing tachograph files:



```
Response.TachographFile ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              TachographFile ⌄ {
                            id              string($uuid)
                            filename        string

                        }

}
```

[GET] /TACHOGRAPHFILES/{TACHOGRAPHFILEID}/DOWNLOAD

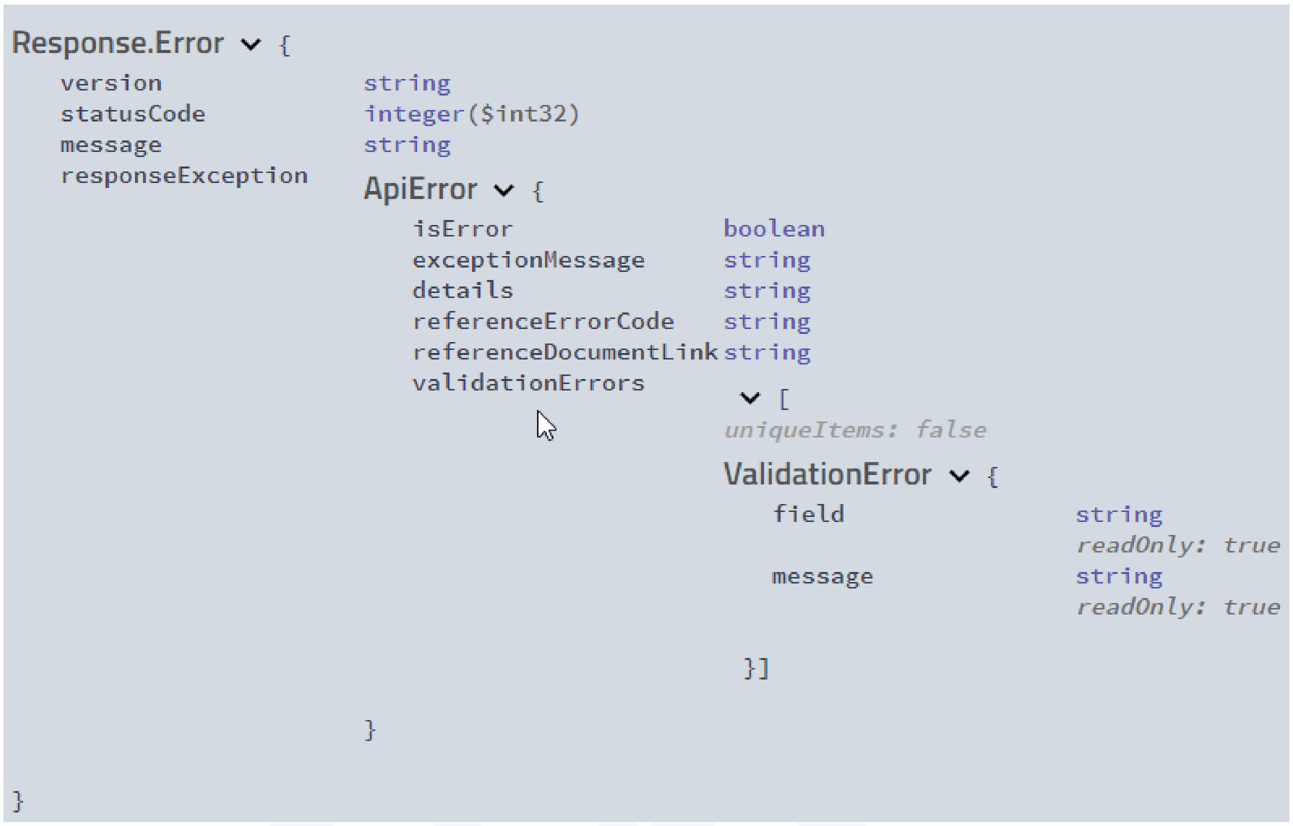
Download tachograph file as base64:



```
Response.TachographFileData ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              TachographFileData ⌄ {
                            description:
                                            Upload DTO for upload of tachograph files

                                            filename must also contain the file extension
                                            blob is the files content in base64

                                            {
                                               filename:"M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd",
                                               blob:"YmFzZTY0...ZXhhbXBsZQ=="
                                            }
                            filename        string
                                            example: M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd
                            blob            string($byte)
                                            example: YmFzZTY0...ZXhhbXBsZQ==

                        }
}
```

[GET] /TACHOGRAPHFILES/{TACHOGRAPHFILEID}/DOWNLOAD/FILE

Download tachograph file as octet-stream:

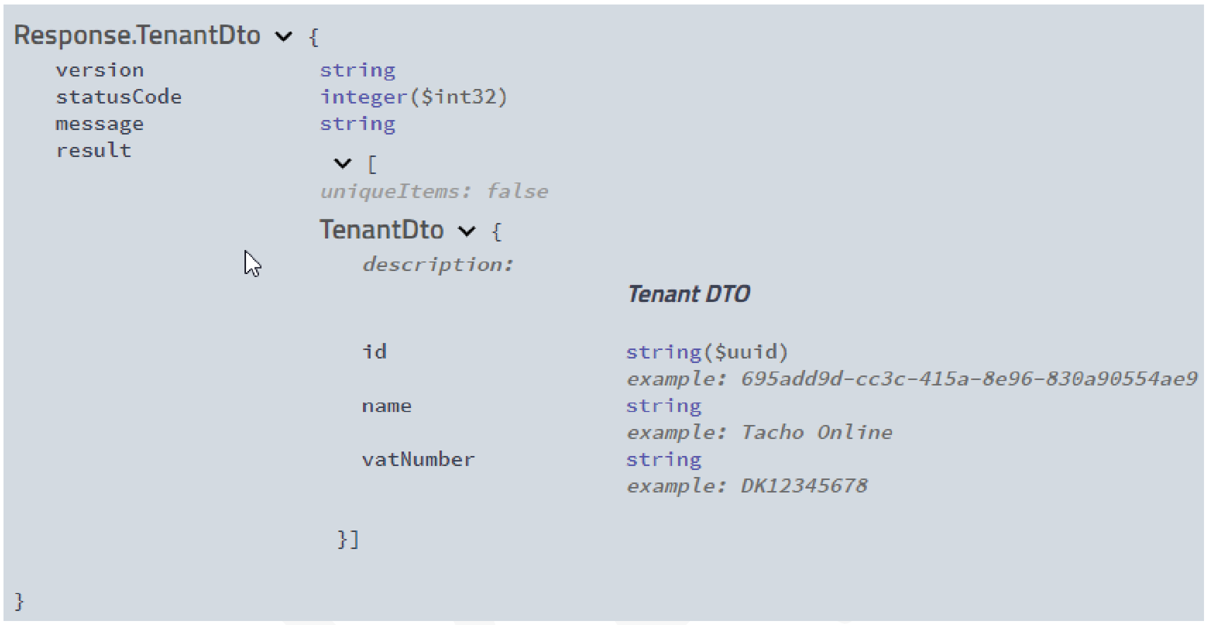


```
Response.Error ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    responseException    ApiError ⌄ {
                             isError                boolean
                             exceptionMessage       string
                             details                string
                             referenceErrorCode     string
                             referenceDocumentLink  string
                             validationErrors        ⌄ [
                                                    uniqueItems: false
                                                    ValidationError ⌄ {
                                                        field          string
                                                                       readOnly: true
                                                        message        string
                                                                       readOnly: true

                                                     }]

                         }

}
```

TENANTS

[GET] /TENANTS

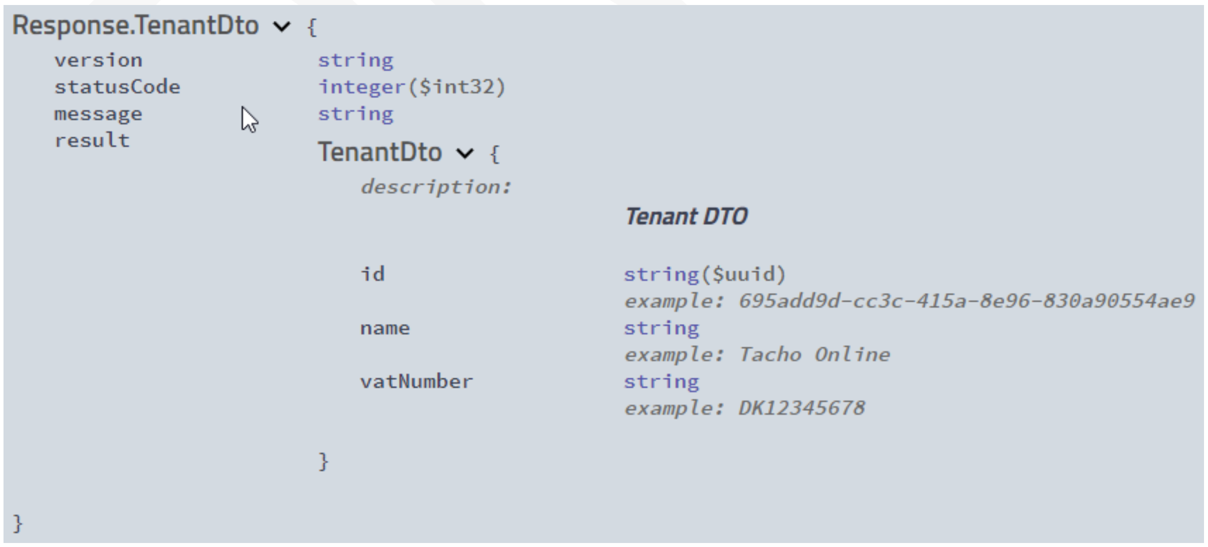
Get list of tenants that is accessible:



```
Response.TenantDto ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                    ⌄ [
                            uniqueItems: false
                            TenantDto ⌄ {
                                description:
                                                    Tenant DTO

                                id                  string($uuid)
                                                    example: 695add9d-cc3c-415a-8e96-830a90554ae9
                                name                string
                                                    example: Tacho Online
                                vatNumber           string
                                                    example: DK12345678

                              }]
}
```

[GET] /TENANTS/{ID}

Get tenant details:



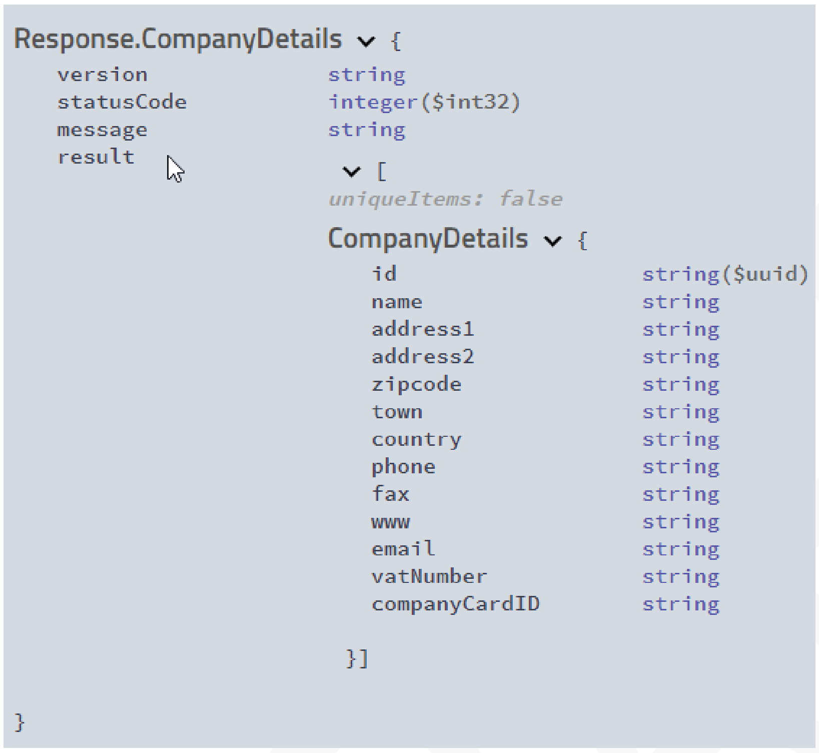
```
Response.TenantDto ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  TenantDto ⌄ {
                                description:
                                                    Tenant DTO

                                id                  string($uuid)
                                                    example: 695add9d-cc3c-415a-8e96-830a90554ae9
                                name                string
                                                    example: Tacho Online
                                vatNumber           string
                                                    example: DK12345678

                            }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customer in Tacho Online

COMPANY

[GET] /TENANTS/{TENANTID}/COMPANY

Get information about company:

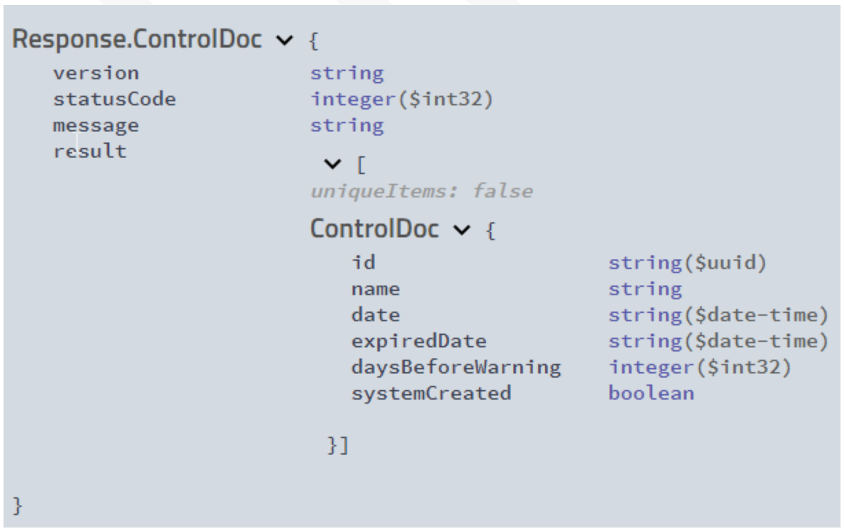


```
Response.CompanyDetails ⌄ {
    version               string
    statusCode            integer($int32)
    message               string
    result
                          ⌄ [
                          uniqueItems: false
                          CompanyDetails ⌄ {
                              id                  string($uuid)
                              name                string
                              address1            string
                              address2            string
                              zipcode             string
                              town                string
                              country             string
                              phone               string
                              fax                 string
                              www                 string
                              email               string
                              vatNumber           string
                              companyCardID       string

                            }]

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online

[GET] /TENANTS/{TENANTID}/COMPANY/CONTROLDOCS

List companies control documents:

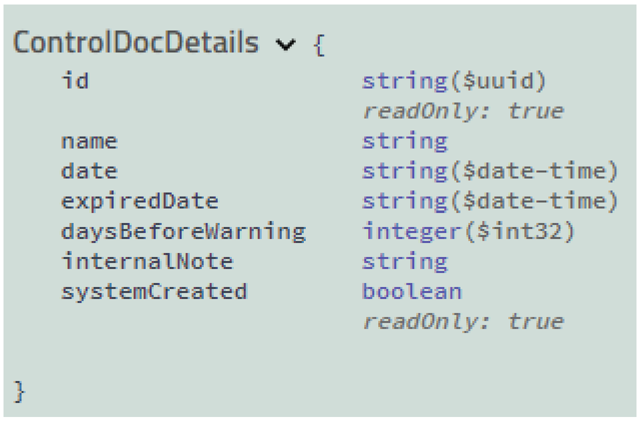


```
Response.ControlDoc ⌄ {
    version               string
    statusCode            integer($int32)
    message               string
    result
                          ⌄ [
                          uniqueItems: false
                          ControlDoc ⌄ {
                              id                  string($uuid)
                              name                string
                              date                string($date-time)
                              expiredDate         string($date-time)
                              daysBeforeWarning   integer($int32)
                              systemCreated       boolean

                            }]

}
```

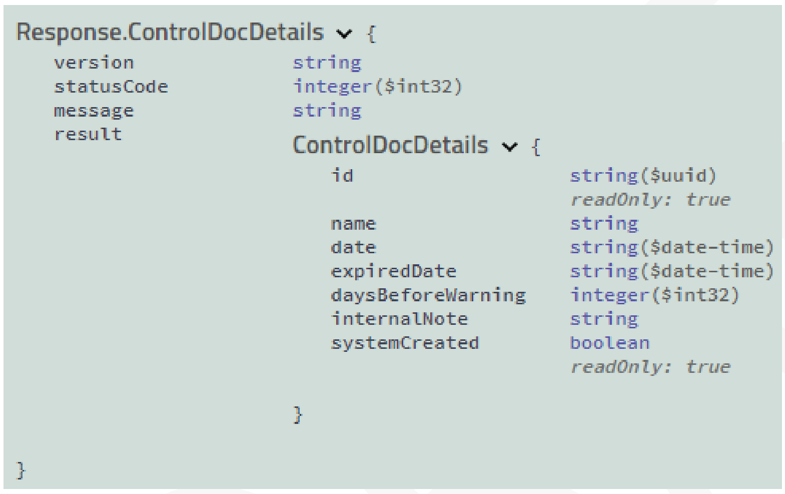
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online

[POST] /TENANTS/{TENANTID}/COMPANY/CONTROLDOCS

Create new company document:



```
ControlDocDetails ⌄ {
    id                   string($uuid)
                         readOnly: true

    name                 string
    date                 string($date-time)
    expiredDate          string($date-time)
    daysBeforeWarning    integer($int32)
    internalNote         string
    systemCreated        boolean
                         readOnly: true

}
```

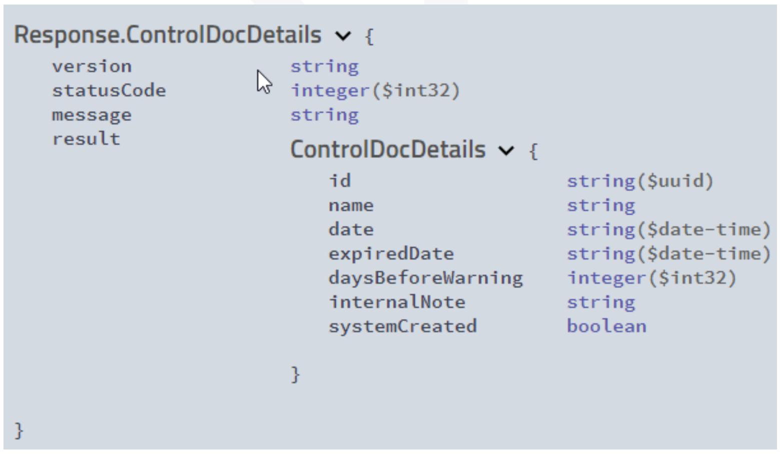


```
Response.ControlDocDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result               ControlDocDetails ⌄ {
                             id                   string($uuid)
                                                  readOnly: true

                             name                 string
                             date                 string($date-time)
                             expiredDate          string($date-time)
                             daysBeforeWarning    integer($int32)
                             internalNote         string
                             systemCreated        boolean
                                                  readOnly: true

                         }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **ControlDoc**: the control document object

[GET] /TENANTS/{TENANTID}/COMPANY/CONTROLDOCS/ {CONTROLDOCID}

Get control document details from the specific company:

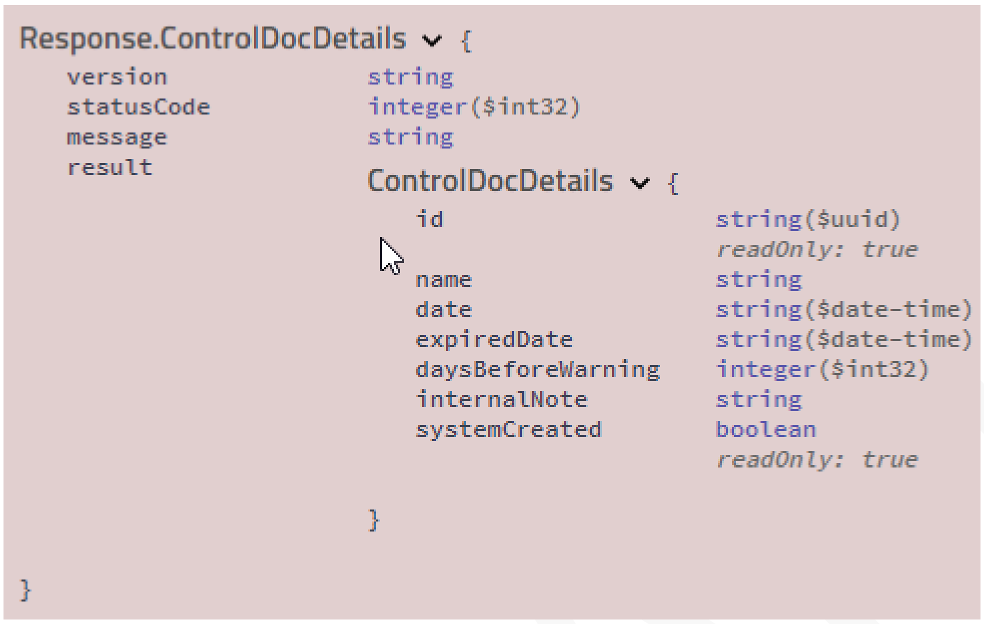


```
Response.ControlDocDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result               ControlDocDetails ⌄ {
                             id                   string($uuid)
                             name                 string
                             date                 string($date-time)
                             expiredDate          string($date-time)
                             daysBeforeWarning    integer($int32)
                             internalNote         string
                             systemCreated        boolean

                         }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **ControlDocID**: the unique control document ID

[DELETE] /TENANTS/{TENANTID}/COMPANY/CONTROLDOCS/ {CONTROLDOCID}

Delete existing company control document:

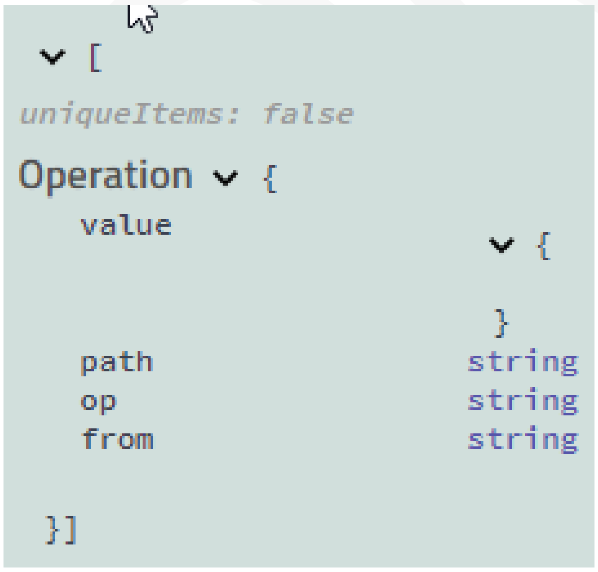


```
Response.ControlDocDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  ControlDocDetails ⌄ {
                                id                  string($uuid)
                                                    readOnly: true
                                name                string
                                date                string($date-time)
                                expiredDate         string($date-time)
                                daysBeforeWarning   integer($int32)
                                internalNote        string
                                systemCreated       boolean
                                                    readOnly: true

                            }
}
```

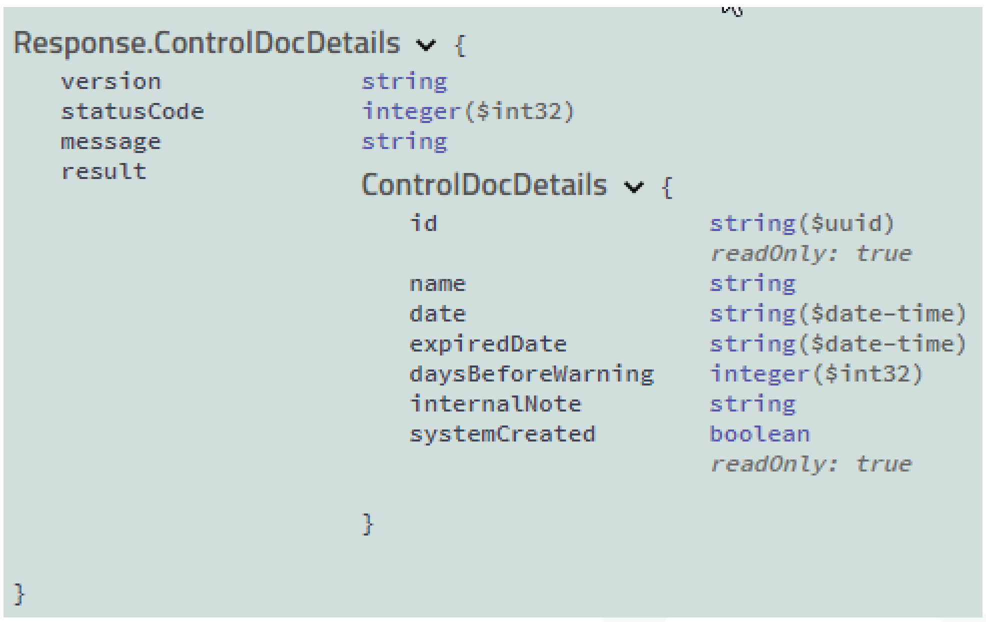
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **ControlDocID**: the unique control document ID

[DELETE] /TENANTS/{TENANTID}/COMPANY/CONTROLDOCS/ {CONTROLDOCID}

Update existing company control document:



```
 ⌄ [
uniqueItems: false
Operation ⌄ {
    value              ⌄ {

                        }
    path              string
    op                string
    from              string

 }]
```



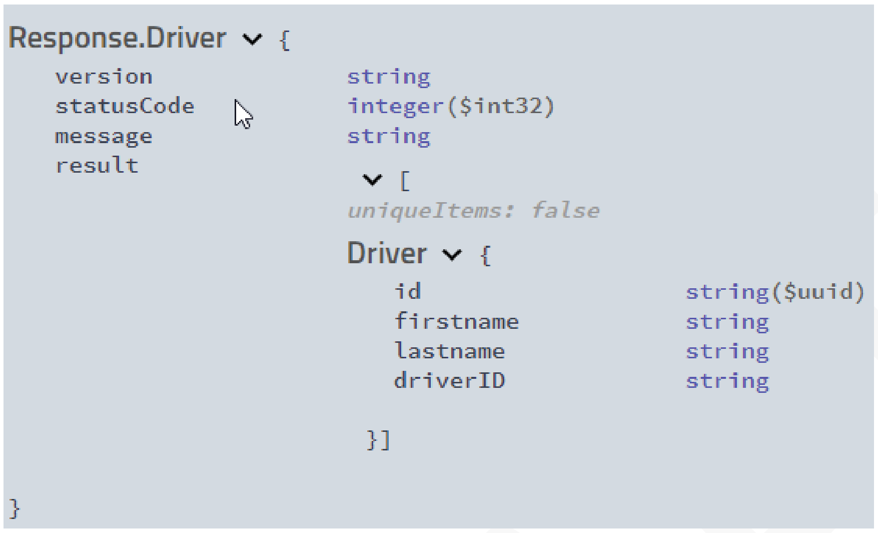
```
Response.ControlDocDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              ControlDocDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true
                            name                string
                            date                string($date-time)
                            expiredDate         string($date-time)
                            daysBeforeWarning   integer($int32)
                            internalNote        string
                            systemCreated       boolean
                                                readOnly: true

                        }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **ControlDocID**: the unique control document ID
- [REQUIRED] **ControlDoc**: the jsonPatchDocument object used to update the companys control document values

DRIVERS

[GET] /TENANTS/{TENANTID}/DRIVERS

Get list of existing drivers:

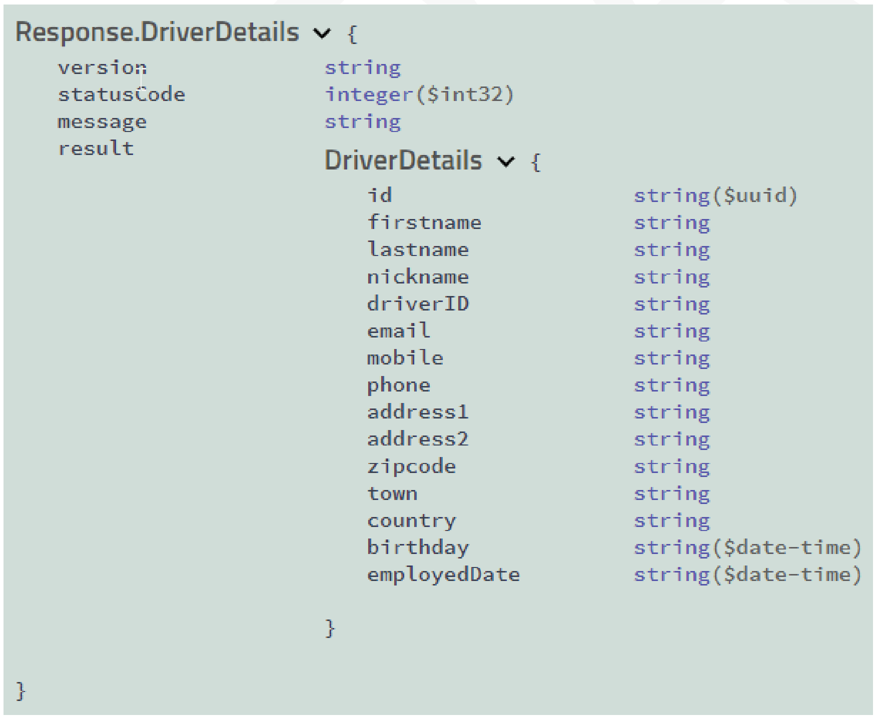


```
Response.Driver ⌄ {
    version          string
    statusCode       integer($int32)
    message          string
    result
                      ⌄ [
                     uniqueItems: false
                     Driver ⌄ {
                         id                    string($uuid)
                         firstname             string
                         lastname              string
                         driverID              string

                       }]

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online

[POST] /TENANTS/{TENANTID}/DRIVERS

Create new driver:

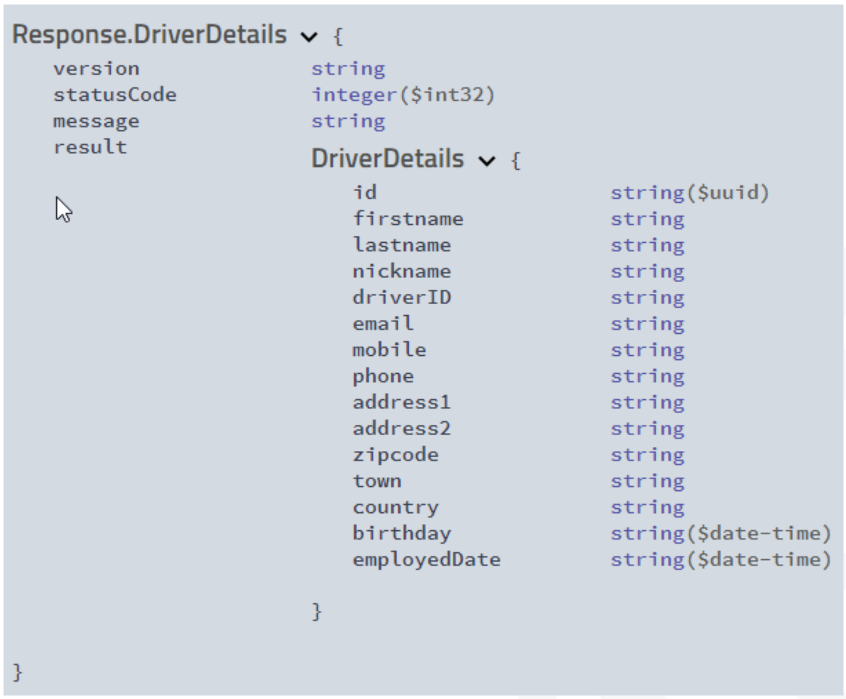


```
Response.DriverDetails ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result
                         DriverDetails ⌄ {
                             id                string($uuid)
                             firstname         string
                             lastname          string
                             nickname          string
                             driverID          string
                             email             string
                             mobile            string
                             phone             string
                             address1          string
                             address2          string
                             zipcode           string
                             town              string
                             country           string
                             birthday          string($date-time)
                             employedDate      string($date-time)

                         }

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **Driver**: the driver object

[GET] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}

Get driver details:

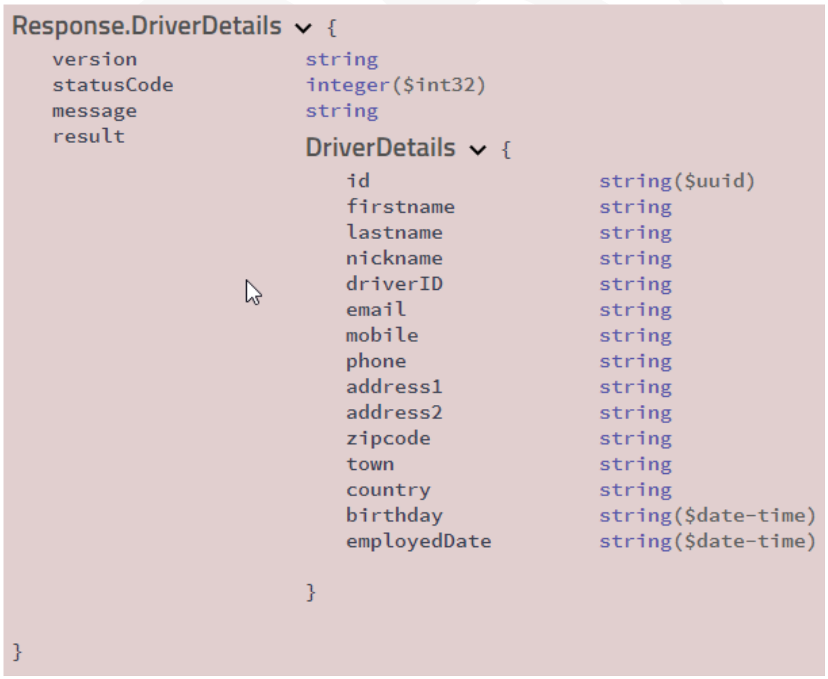


```
Response.DriverDetails ⌄ {
    version               string
    statusCode            integer($int32)
    message               string
    result                DriverDetails ⌄ {
                              id              string($uuid)
                              firstname       string
                              lastname        string
                              nickname        string
                              driverID        string
                              email           string
                              mobile          string
                              phone           string
                              address1        string
                              address2        string
                              zipcode         string
                              town            string
                              country         string
                              birthday        string($date-time)
                              employedDate    string($date-time)

                          }

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID

[DELETE] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}

Delete existing driver:

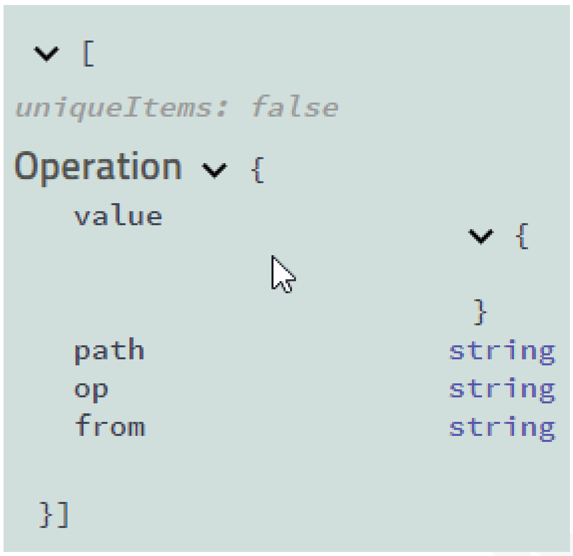


```
Response.DriverDetails ⌄ {
    version               string
    statusCode            integer($int32)
    message               string
    result                DriverDetails ⌄ {
                              id              string($uuid)
                              firstname       string
                              lastname        string
                              nickname        string
                              driverID        string
                              email           string
                              mobile          string
                              phone           string
                              address1        string
                              address2        string
                              zipcode         string
                              town            string
                              country         string
                              birthday        string($date-time)
                              employedDate    string($date-time)

                          }

}
```

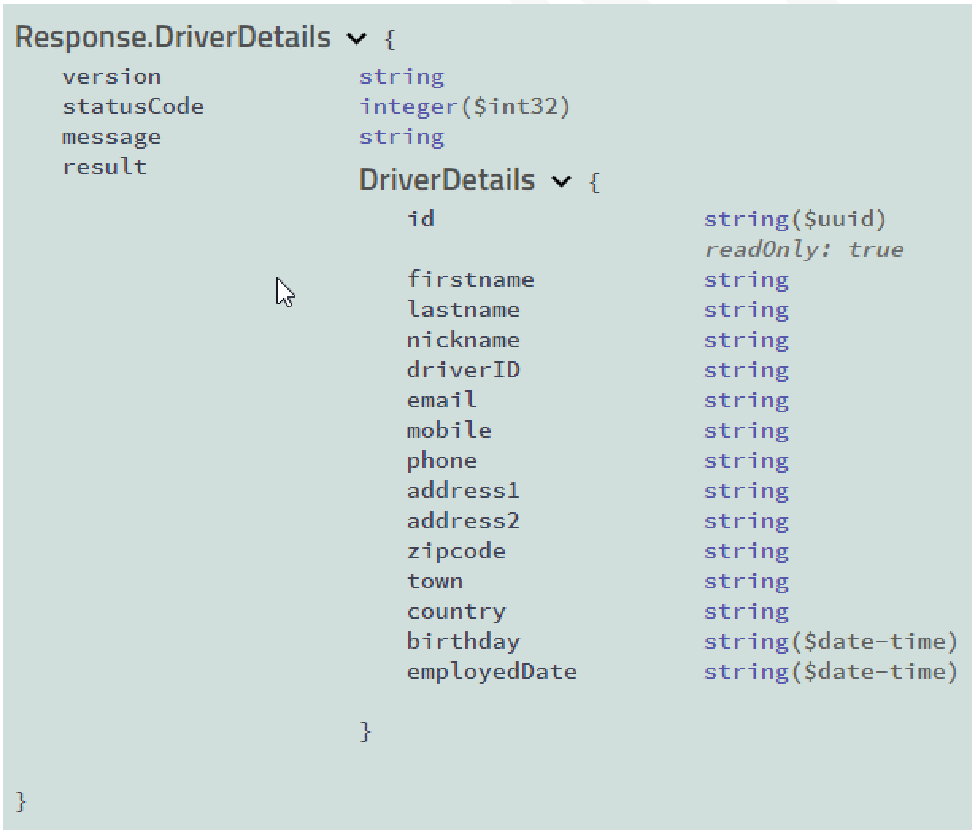
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID

[PATCH] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}

Update existing driver:



```
[
uniqueItems: false
Operation {
    value             {
                      }
    path              string
    op                string
    from              string
}]
```

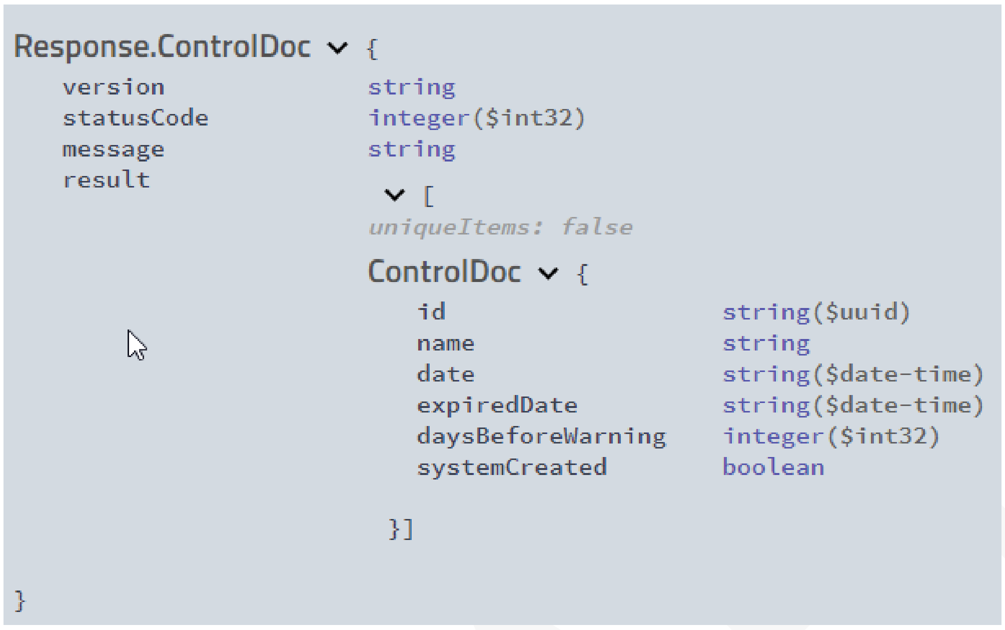


```
Response.DriverDetails {
    version           string
    statusCode        integer($int32)
    message           string
    result            DriverDetails {
                          id              string($uuid)
                                          readOnly: true
                          firstname       string
                          lastname        string
                          nickname        string
                          driverID        string
                          email           string
                          mobile          string
                          phone           string
                          address1        string
                          address2        string
                          zipcode         string
                          town            string
                          country         string
                          birthday        string($date-time)
                          employedDate    string($date-time)
                      }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID
- [REQUIRED] **Driver**: the jsonPatchDocument object used to update the driver values

[GET] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}/CONTROLDOCS

List drivers control documents:

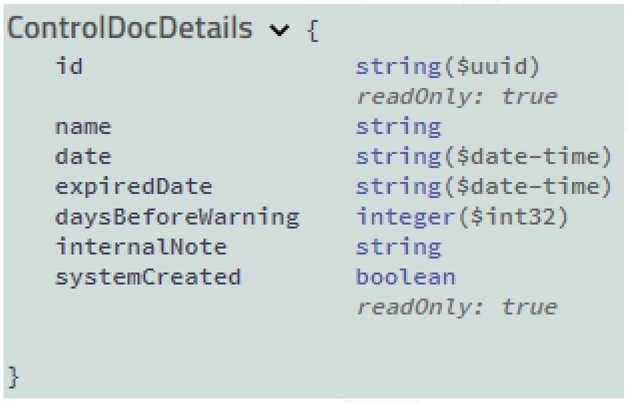


```
Response.ControlDoc ⌄ {
    version              string
    statusCode           integer($int32)
    message              string
    result
                          ⌄ [
                         uniqueItems: false
                         ControlDoc ⌄ {
                             id                      string($uuid)
                             name                    string
                             date                    string($date-time)
                             expiredDate             string($date-time)
                             daysBeforeWarning       integer($int32)
                             systemCreated           boolean

                          }]

}
```

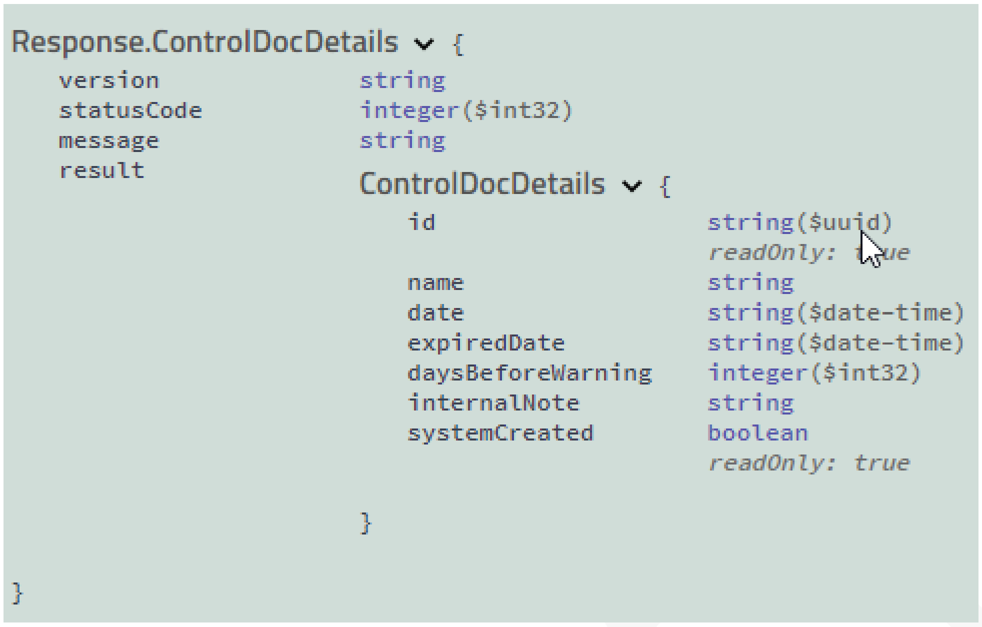
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID

[POST] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}/CONTROLDOCS

Create new driver control document:



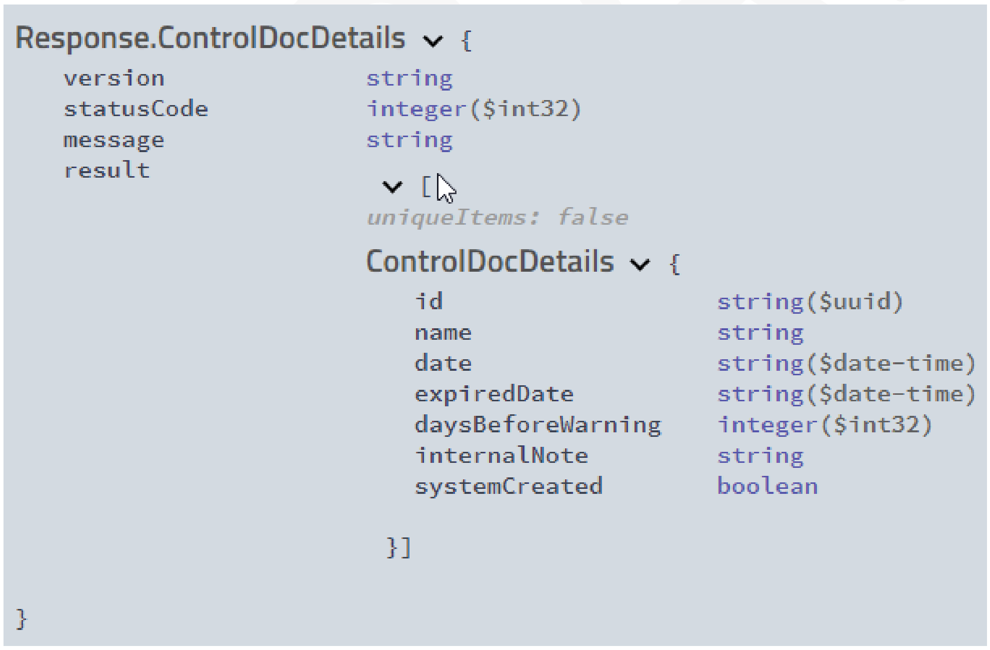
```
ControlDocDetails ⌄ {
    id                   string($uuid)
                         readOnly: true

    name                 string
    date                 string($date-time)
    expiredDate          string($date-time)
    daysBeforeWarning    integer($int32)
    internalNote         string
    systemCreated        boolean
                         readOnly: true

}
```


```
Response.ControlDocDetails ⌄ {
    version                  string
    statusCode               integer($int32)
    message                  string
    result                   ControlDocDetails ⌄ {
                                 id                    string($uuid)
                                                       readOnly: true
                                 name                  string
                                 date                  string($date-time)
                                 expiredDate           string($date-time)
                                 daysBeforeWarning     integer($int32)
                                 internalNote          string
                                 systemCreated         boolean
                                                       readOnly: true

                             }

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID
- [REQUIRED] **ControlDoc**: the control document object.

[GET] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}/CONTROLDOCS/{CONTROLDOCID}

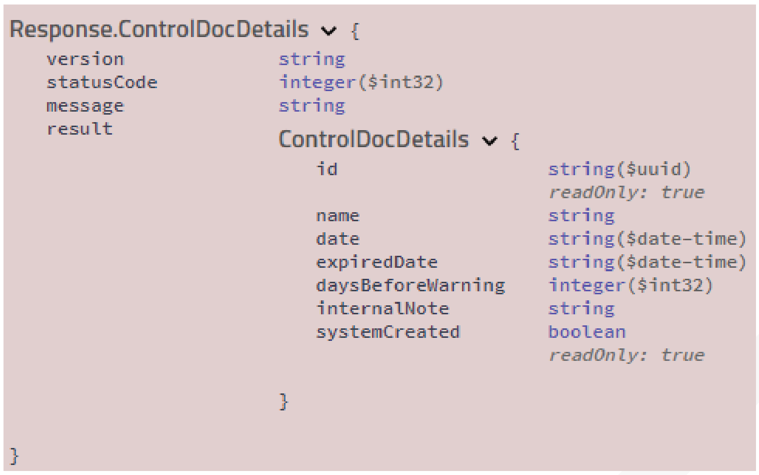
Get control document details from specific driver:


```
Response.ControlDocDetails ⌄ {
    version                  string
    statusCode               integer($int32)
    message                  string
    result                    ⌄ [
                             uniqueItems: false
                             ControlDocDetails ⌄ {
                                 id                    string($uuid)
                                 name                  string
                                 date                  string($date-time)
                                 expiredDate           string($date-time)
                                 daysBeforeWarning     integer($int32)
                                 internalNote          string
                                 systemCreated         boolean

                               }]

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID
- [REQUIRED] **ControlDocID**: the unique control document ID

[DELETE] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}/CONTROLDOCS/{CONTROLDOCID}

Delete existing driver control document:

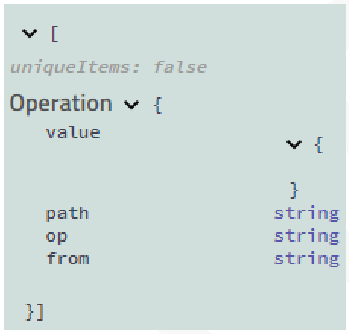


```
Response.ControlDocDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              ControlDocDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true
                            name                string
                            date                string($date-time)
                            expiredDate         string($date-time)
                            daysBeforeWarning   integer($int32)
                            internalNote        string
                            systemCreated       boolean
                                                readOnly: true
                        }
}
```

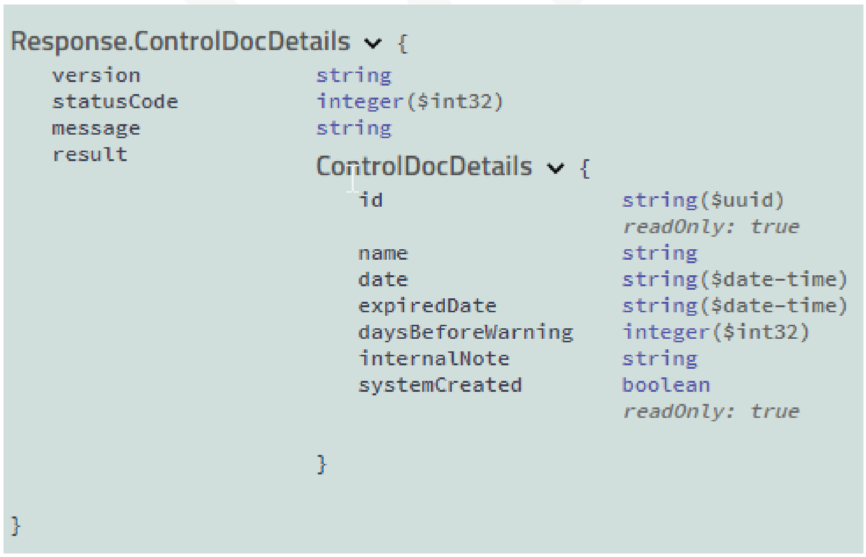
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID
- [REQUIRED] **ControlDocID**: the unique control document ID

[PATCH] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}/CONTROLDOCS/{CONTROLDOCID}

Update existing driver control document:



```
 ⌄ [
uniqueItems: false
Operation ⌄ {
    value                   ⌄ {
                            }
    path                    string
    op                      string
    from                    string
 }]
```

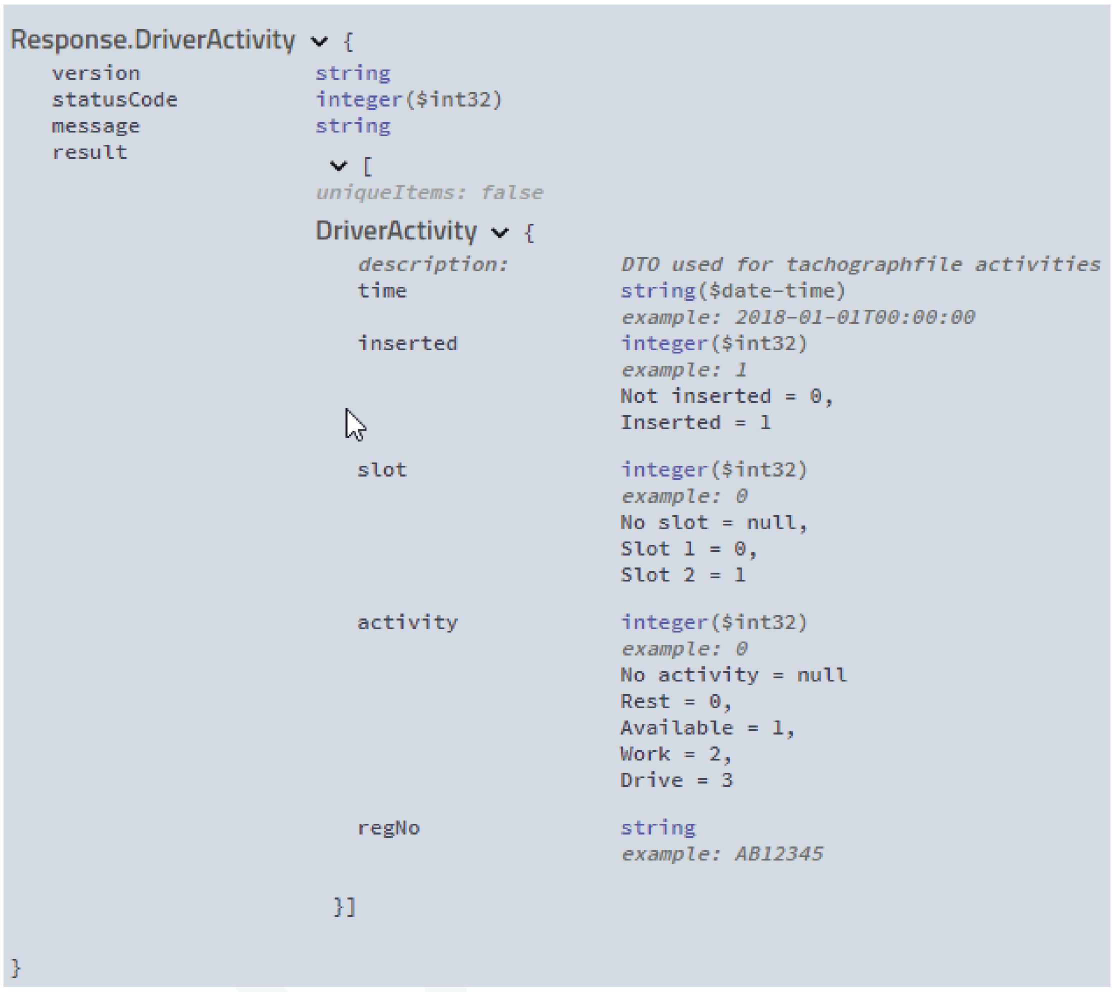


```
Response.ControlDocDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              ControlDocDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true
                            name                string
                            date                string($date-time)
                            expiredDate         string($date-time)
                            daysBeforeWarning   integer($int32)
                            internalNote        string
                            systemCreated       boolean
                                                readOnly: true
                        }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID
- [REQUIRED] **ControlDocID**: the unique control document ID
- [REQUIRED] **ControlDoc**: the jsonPatchDocument object used to update the drivers control document values

[GET] /TENANTS/{TENANTID}/DRIVERS/{DRIVERID}/TACHOACTIVITY /{ACTIVITYMIN}/{ACTIVITYMAX}

Get tacho activity details from a specific driver:



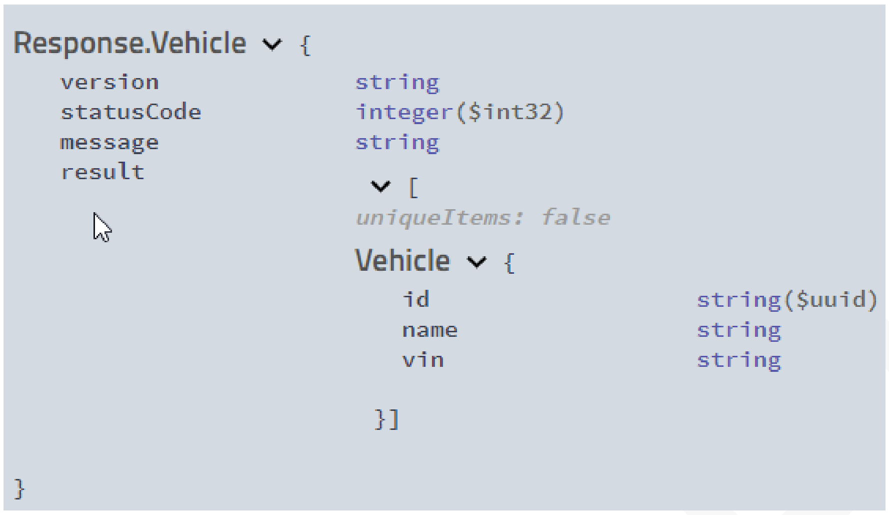
```
Response.DriverActivity ⌄ {
    version               string
    statusCode            integer($int32)
    message               string
    result
                            ⌄ [
                          uniqueItems: false
                          DriverActivity ⌄ {
                              description:          DTO used for tachographfile activities
                              time                  string($date-time)
                                                    example: 2018-01-01T00:00:00
                              inserted              integer($int32)
                                                    example: 1
                                                    Not inserted = 0,
                                                    Inserted = 1

                              slot                  integer($int32)
                                                    example: 0
                                                    No slot = null,
                                                    Slot 1 = 0,
                                                    Slot 2 = 1

                              activity              integer($int32)
                                                    example: 0
                                                    No activity = null
                                                    Rest = 0,
                                                    Available = 1,
                                                    Work = 2,
                                                    Drive = 3

                              regNo                 string
                                                    example: AB12345

                            }]

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **DriverID**: the unique driver ID
- [REQUIRED] **ActivityMin**: the minimum activity date (yyyy-MM-dd)
- [REQUIRED] **ActivityMax**: the maximum activity date (yyyy-MM-dd)

VEHICLE

[GET] /TENANTS/{TENANTID}/VEHICLES

Get list of existing vehicles:

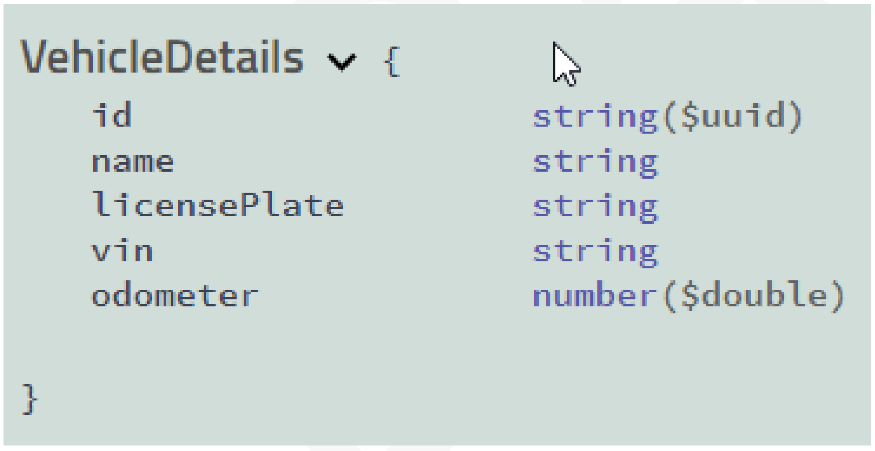


```
Response.Vehicle ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result
                         ⌄ [
                        uniqueItems: false
                        Vehicle ⌄ {
                            id                  string($uuid)
                            name                string
                            vin                 string

                         }]
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online

[POST] /TENANTS/{TENANTID}/VEHICLES

Create new Vehicle:

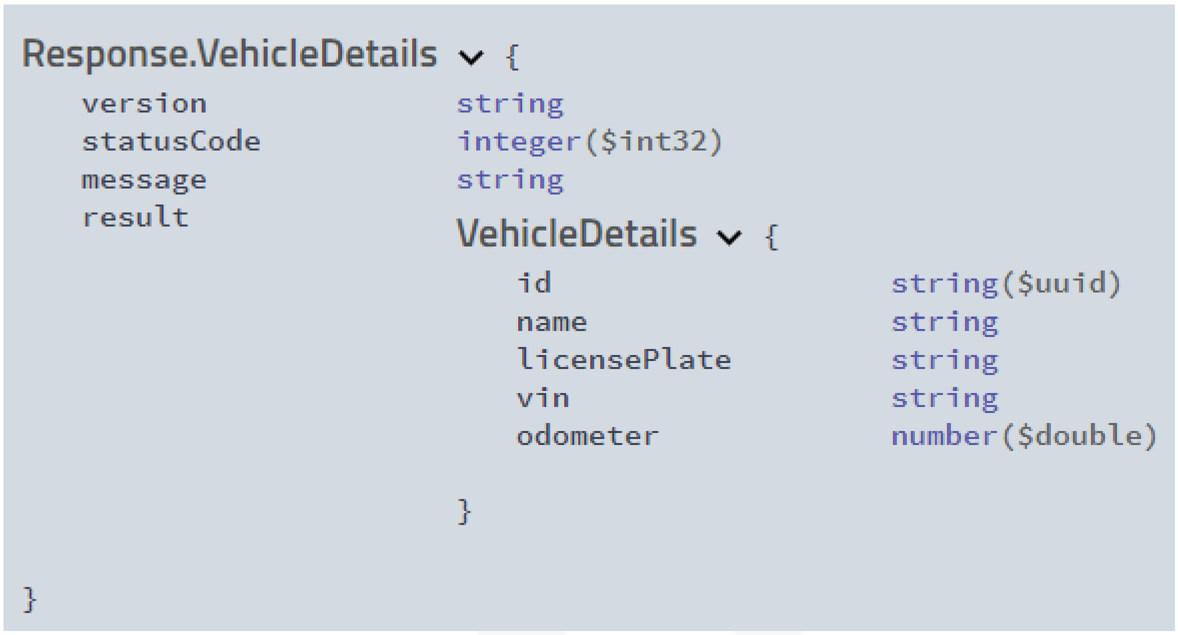


```
VehicleDetails ⌄ {
    id                  string($uuid)
    name                string
    licensePlate        string
    vin                 string
    odometer            number($double)

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **Vehicle**: vehicle object

[GET] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}

Get vehicles details:

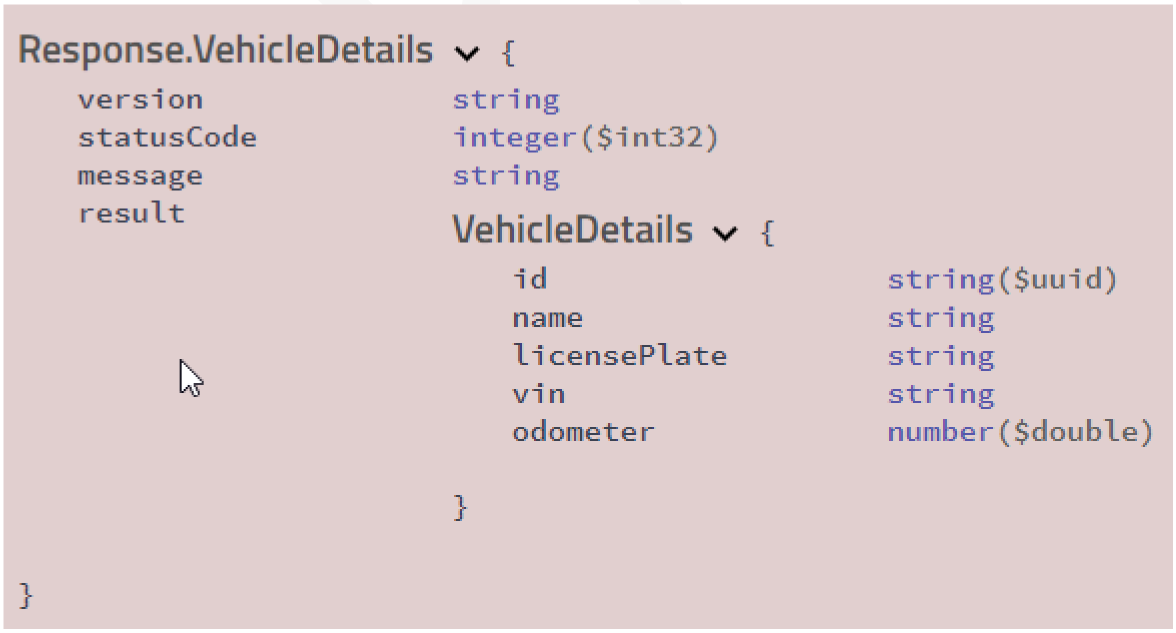


```
Response.VehicleDetails ∨ {
    version                   string
    statusCode                integer($int32)
    message                   string
    result                    VehicleDetails ∨ {
                                  id                 string($uuid)
                                  name               string
                                  licensePlate       string
                                  vin                string
                                  odometer           number($double)

                              }

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID

[DELETE] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}

Delete existing vehicle:

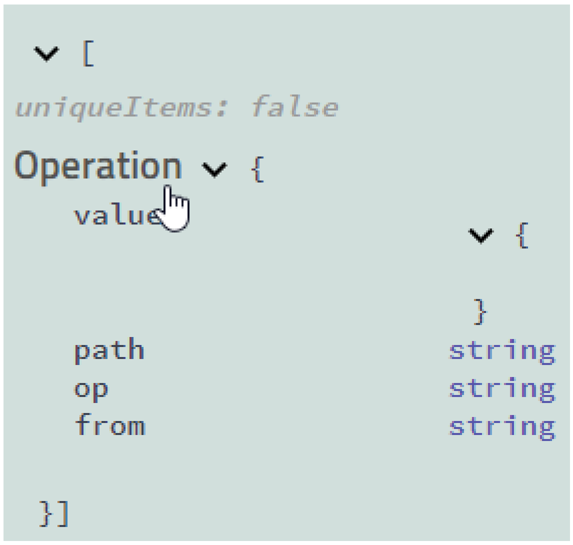


```
Response.VehicleDetails ∨ {
    version                   string
    statusCode                integer($int32)
    message                   string
    result                    VehicleDetails ∨ {
                                  id                 string($uuid)
                                  name               string
                                  licensePlate       string
                                  vin                string
                                  odometer           number($double)

                              }

}
```

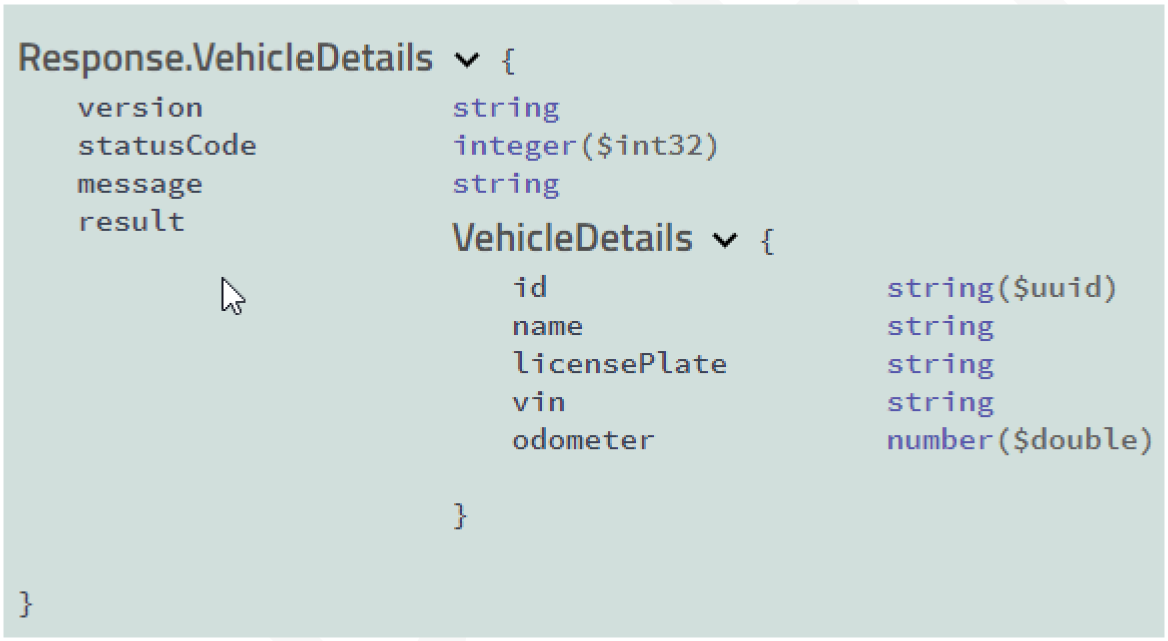
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID

[PATCH] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}

Update existing vehicle:



```
[
uniqueItems: false
Operation {
    value                        {
                                 }
    path                        string
    op                          string
    from                        string
}]
```

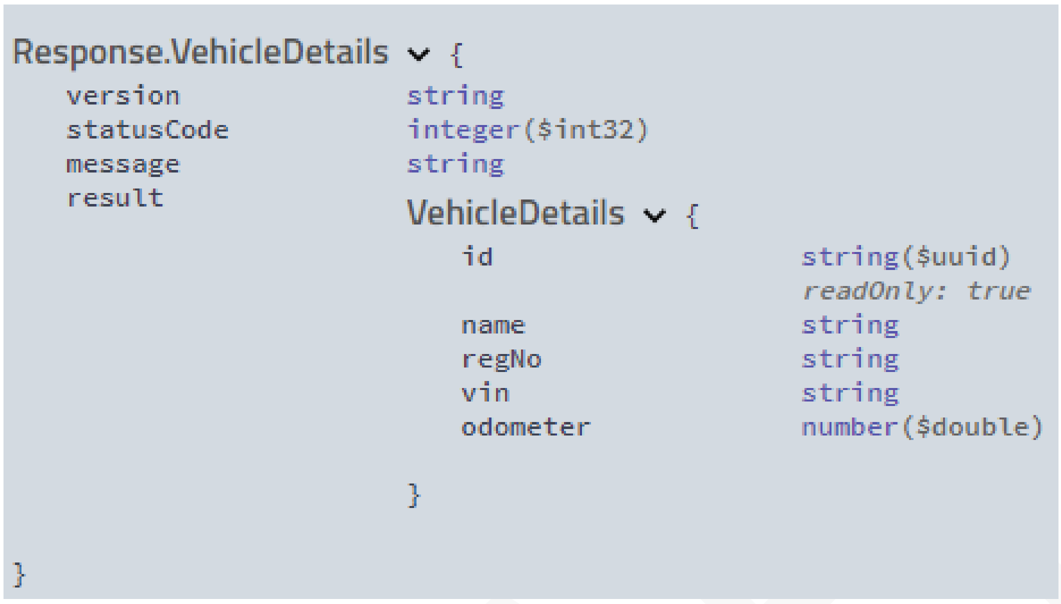


```
Response.VehicleDetails {
    version                     string
    statusCode                  integer($int32)
    message                     string
    result                      VehicleDetails {
                                    id                  string($uuid)
                                    name                string
                                    licensePlate        string
                                    vin                 string
                                    odometer            number($double)
                                }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID
- [REQUIRED] **Vehicle**: the jsonPatchDocument object used to update the vehicle values

[GET] /TENANTS/{TENANTID}/VEHICLES/{REGNO}

Get vehicle details from vehicle registration number:

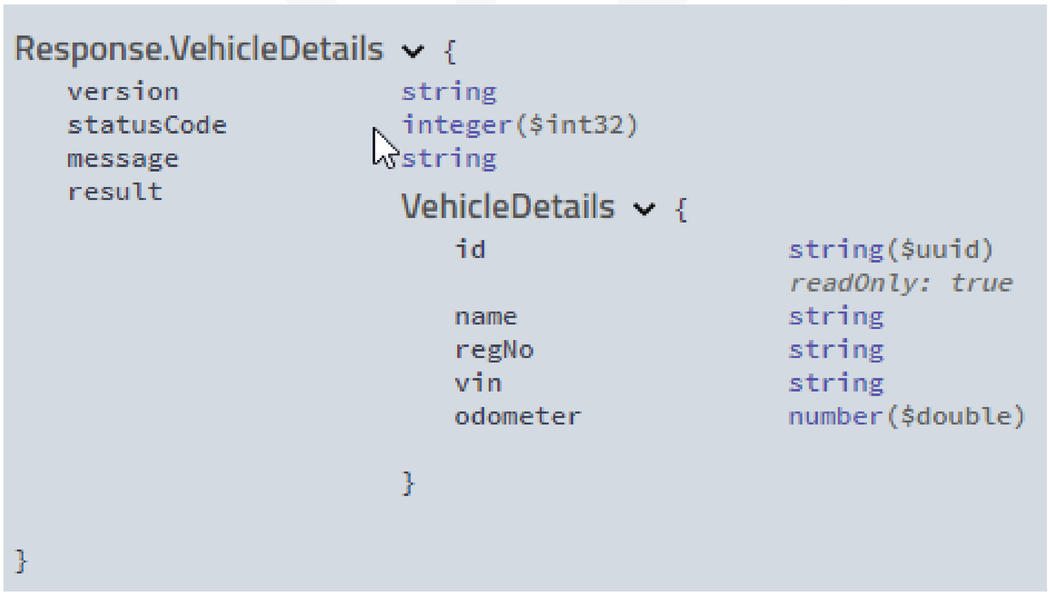


```
Response.VehicleDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              VehicleDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true

                            name                string
                            regNo               string
                            vin                 string
                            odometer            number($double)

                        }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **RegNo**: the vehicles registration number

[GET] /TENANTS/{TENANTID}/VEHICLES/{VIN }

Get vehicle details from vehicle identification number:

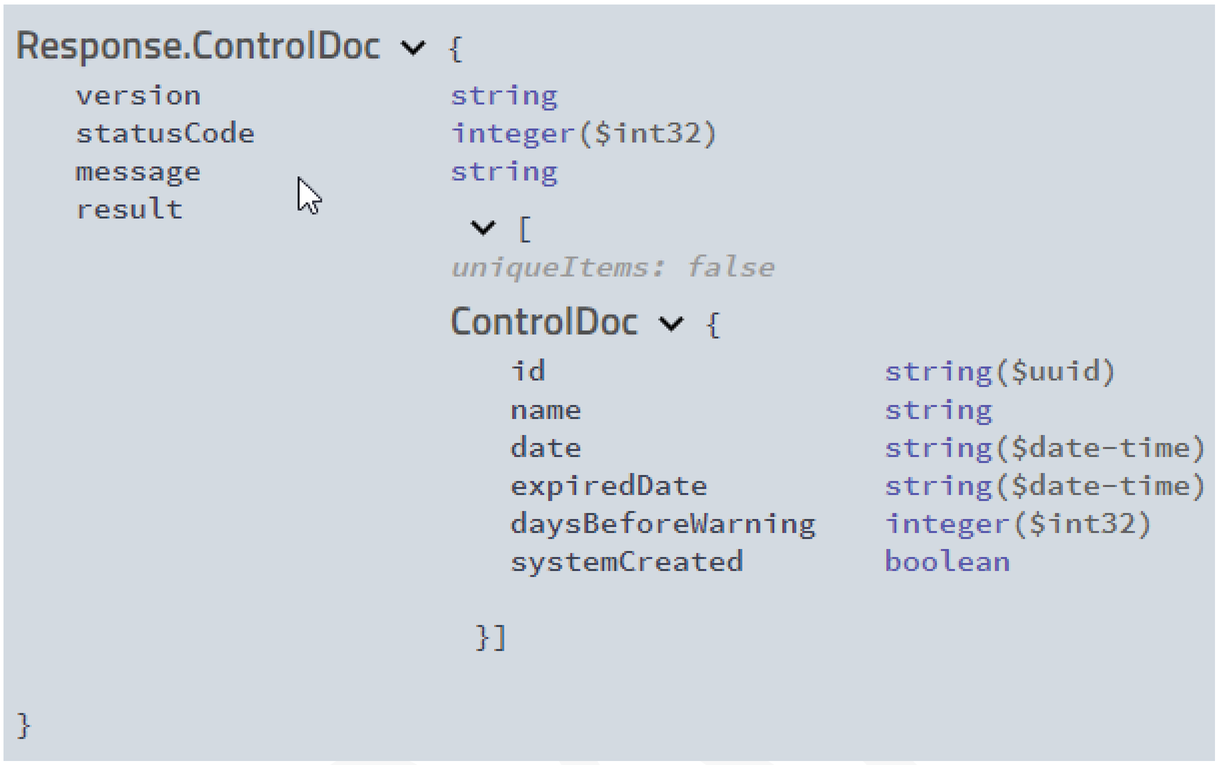


```
Response.VehicleDetails ⌄ {
    version             string
    statusCode          integer($int32)
    message             string
    result              VehicleDetails ⌄ {
                            id                  string($uuid)
                                                readOnly: true

                            name                string
                            regNo               string
                            vin                 string
                            odometer            number($double)

                        }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VIN**: the vehicles identification number

[GET] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}/CONTROLDOCS

List vehicle control documents:

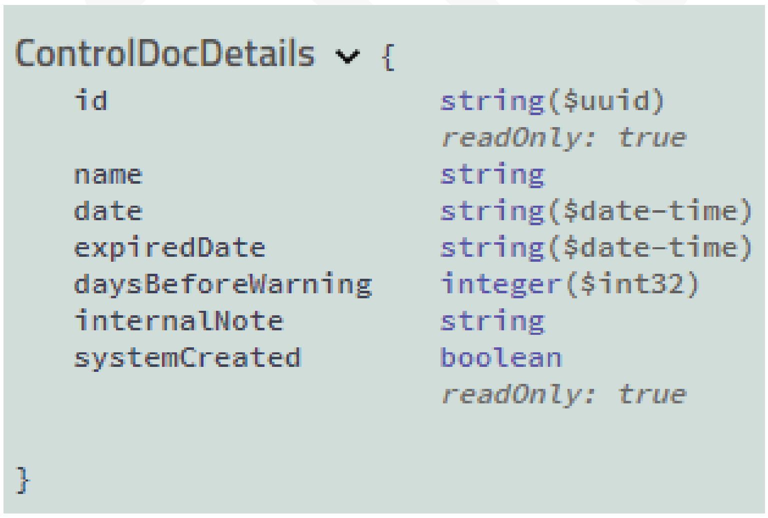


```
Response.ControlDoc ∨ {
    version              string
    statusCode           integer($int32)
    message              string
    result
                          ∨ [
                         uniqueItems: false
                         ControlDoc ∨ {
                             id                      string($uuid)
                             name                    string
                             date                    string($date-time)
                             expiredDate             string($date-time)
                             daysBeforeWarning       integer($int32)
                             systemCreated           boolean

                          }]

}
```

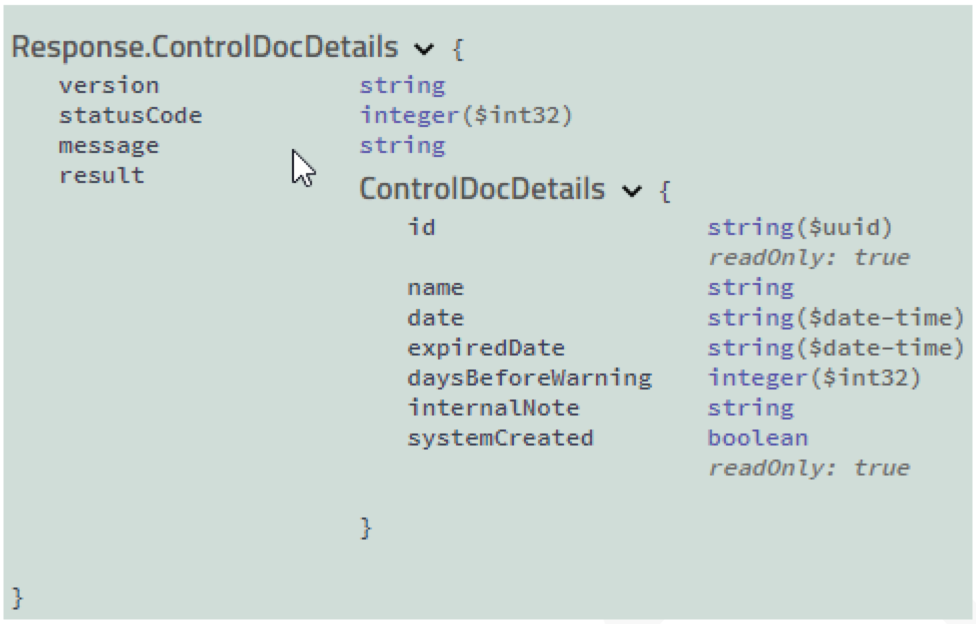
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID

[POST] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}/CONTROLDOCS

Create new vehicle control documents:



```
ControlDocDetails ∨ {
    id                   string($uuid)
                         readOnly: true
    name                 string
    date                 string($date-time)
    expiredDate          string($date-time)
    daysBeforeWarning    integer($int32)
    internalNote         string
    systemCreated        boolean
                         readOnly: true

}
```

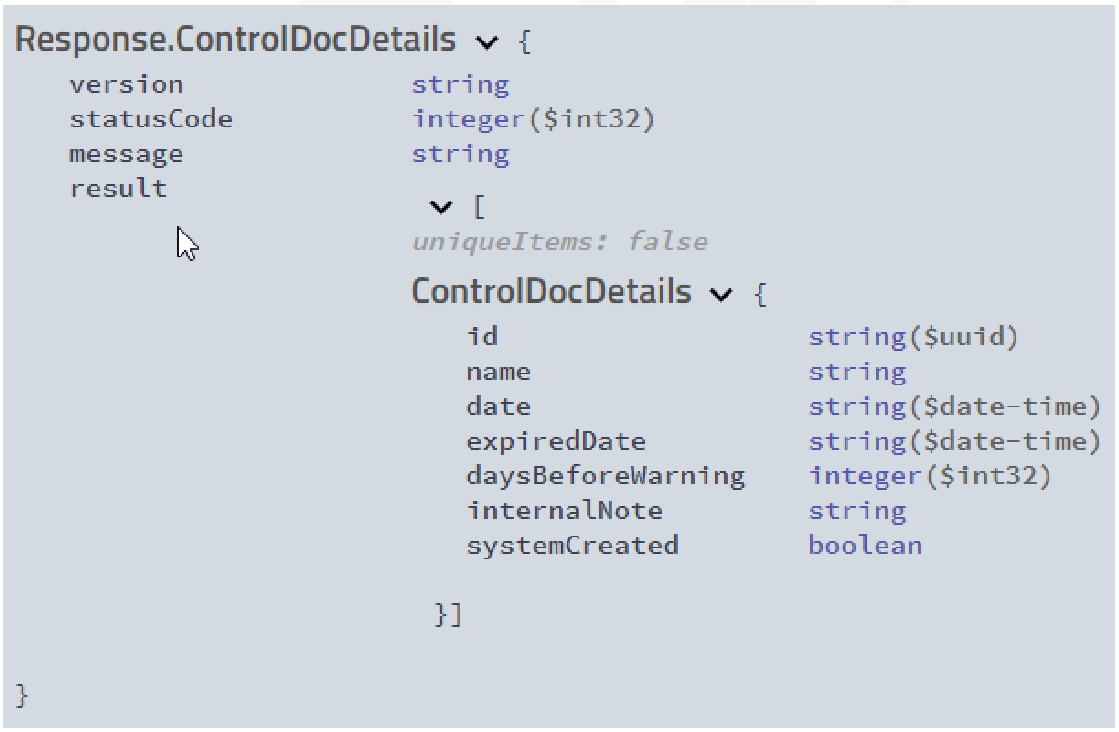


```
Response.ControlDocDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  ControlDocDetails ⌄ {
                                id                    string($uuid)
                                                      readOnly: true
                                name                  string
                                date                  string($date-time)
                                expiredDate           string($date-time)
                                daysBeforeWarning     integer($int32)
                                internalNote          string
                                systemCreated         boolean
                                                      readOnly: true

                            }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID
- [REQUIRED] **ControlDoc**: the control document object

[GET] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}/CONTROLDOCS/{CONTROLDOCID}

Get control document details from specific vehicle:

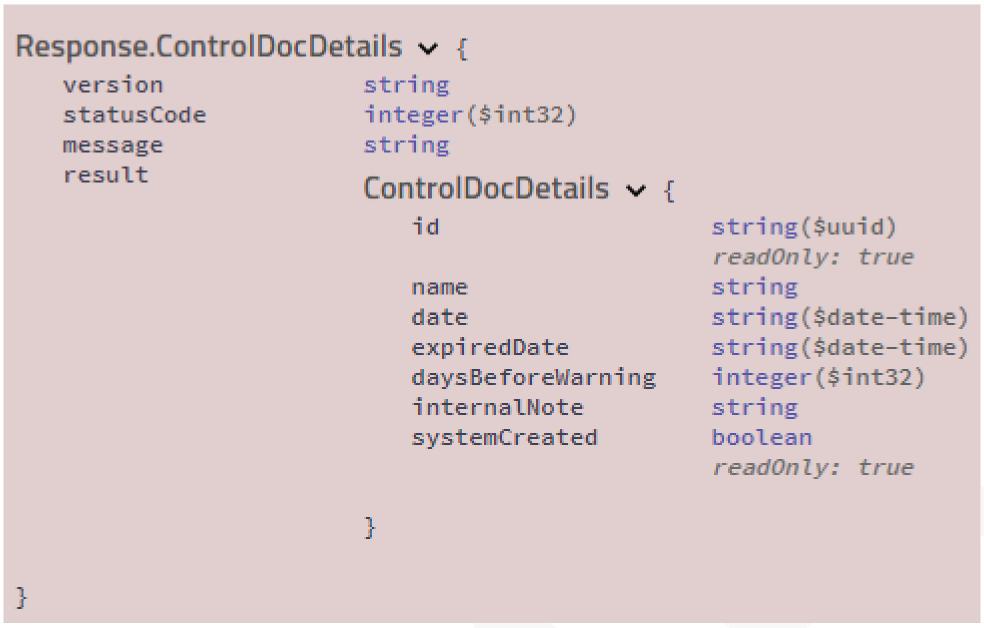


```
Response.ControlDocDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                   ⌄ [
                            uniqueItems: false
                            ControlDocDetails ⌄ {
                                id                    string($uuid)
                                name                  string
                                date                  string($date-time)
                                expiredDate           string($date-time)
                                daysBeforeWarning     integer($int32)
                                internalNote          string
                                systemCreated         boolean

                             }]
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID
- [REQUIRED] **ControlDocID**: the unique control document ID

[DELETE] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}/CONTROLDOCS/{CONTROLDOCID}

Get control document details from specific vehicle:

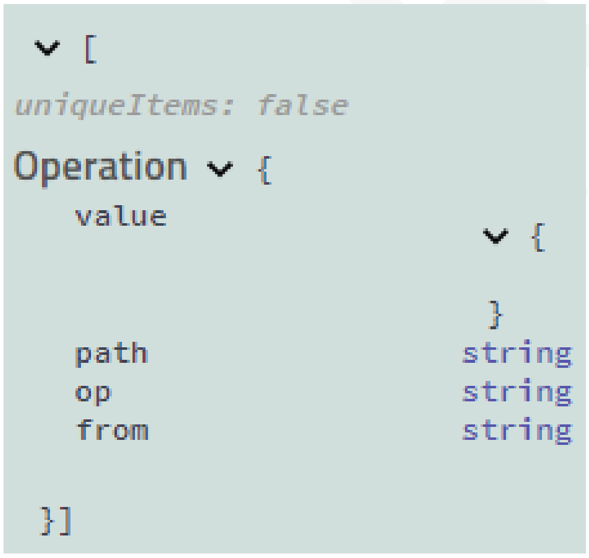


```
Response.ControlDocDetails ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result                  ControlDocDetails ⌄ {
                                id                  string($uuid)
                                                    readOnly: true

                                name                string
                                date                string($date-time)
                                expiredDate         string($date-time)
                                daysBeforeWarning   integer($int32)
                                internalNote        string
                                systemCreated       boolean
                                                    readOnly: true

                            }
}
```

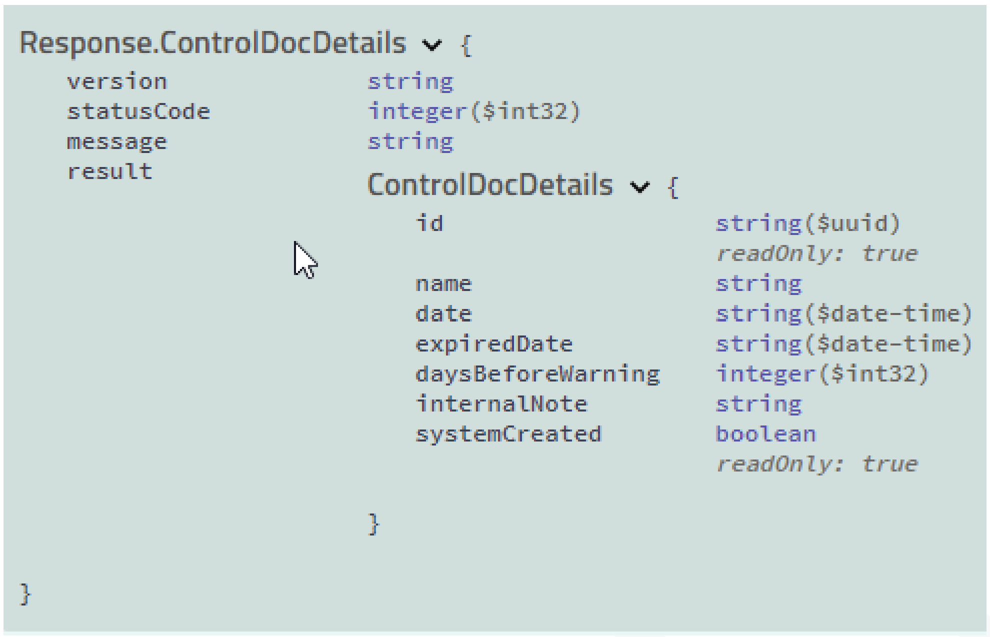
- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID
- [REQUIRED] **ControlDocID**: the unique control document ID

[PATCH] /TENANTS/{TENANTID}/VEHICLES/{VEHICLEID}/CONTROLDOCS/{CONTROLDOCID}

Get control document details from specific vehicle:



```
 ⌄ [
uniqueItems: false
Operation ⌄ {
    value                      ⌄ {

                                 }
    path                       string
    op                         string
    from                       string

 }]
```



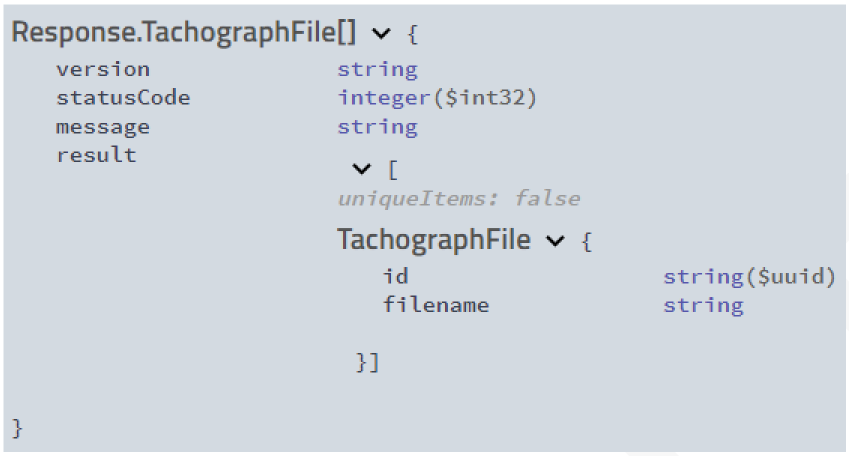
```
Response.ControlDocDetails ⌄ {
   version              string
   statusCode           integer($int32)
   message              string
   result               ControlDocDetails ⌄ {
                           id                    string($uuid)
                                                 readOnly: true
                           name                  string
                           date                  string($date-time)
                           expiredDate           string($date-time)
                           daysBeforeWarning     integer($int32)
                           internalNote          string
                           systemCreated         boolean
                                                 readOnly: true
                        }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **VehicleID**: the unique vehicle ID
- [REQUIRED] **ControlDocID**: the unique control document ID
- [REQUIRED] **ControlDoc**: the jsonPatchDocument object used to update the vehicles control document values

TACHOGRAPHFILES

[GET] /TENANTS/{TENANTID}/TACHOGRAPHFILES

Get list of existing tachograph files:

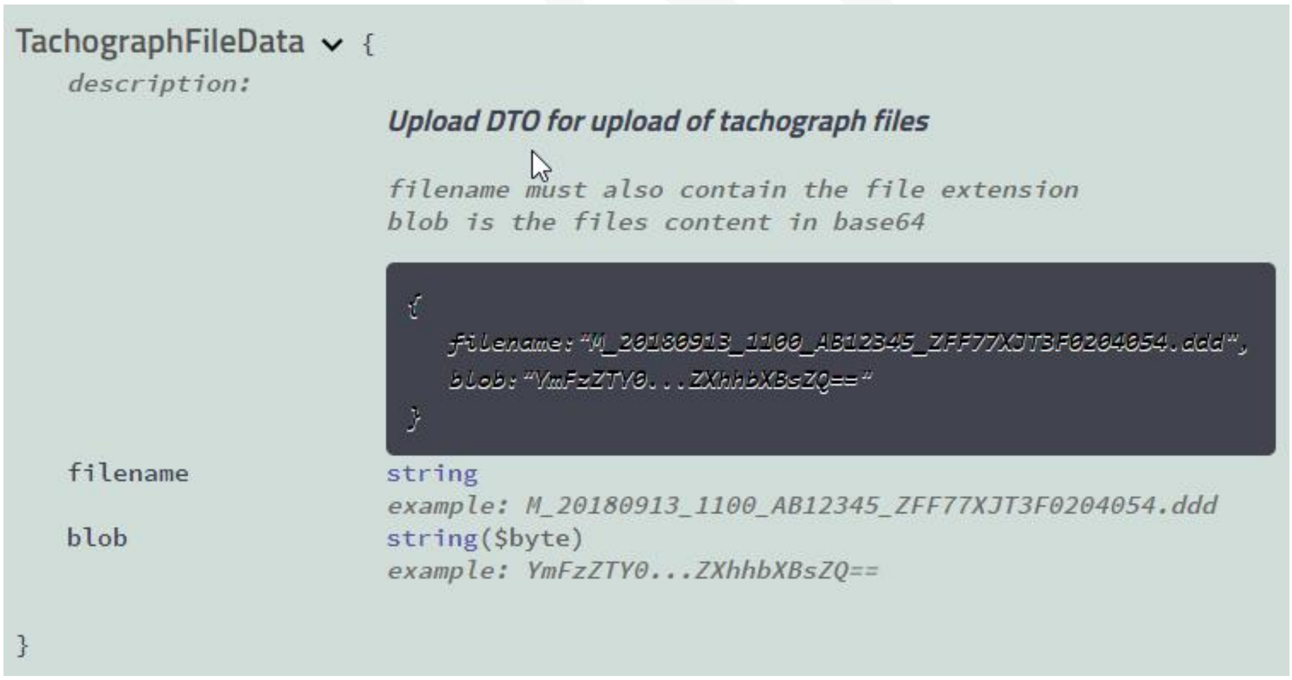


```
Response.TachographFile[] ⌄ {
    version                 string
    statusCode              integer($int32)
    message                 string
    result
                              ⌄ [
                            uniqueItems: false
                            TachographFile ⌄ {
                                id                  string($uuid)
                                filename            string

                              }]
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online

[POST] /TENANTS/{TENANTID}/TACHOGRAPHFILES

Upload a tachograph file to Tacho Online:

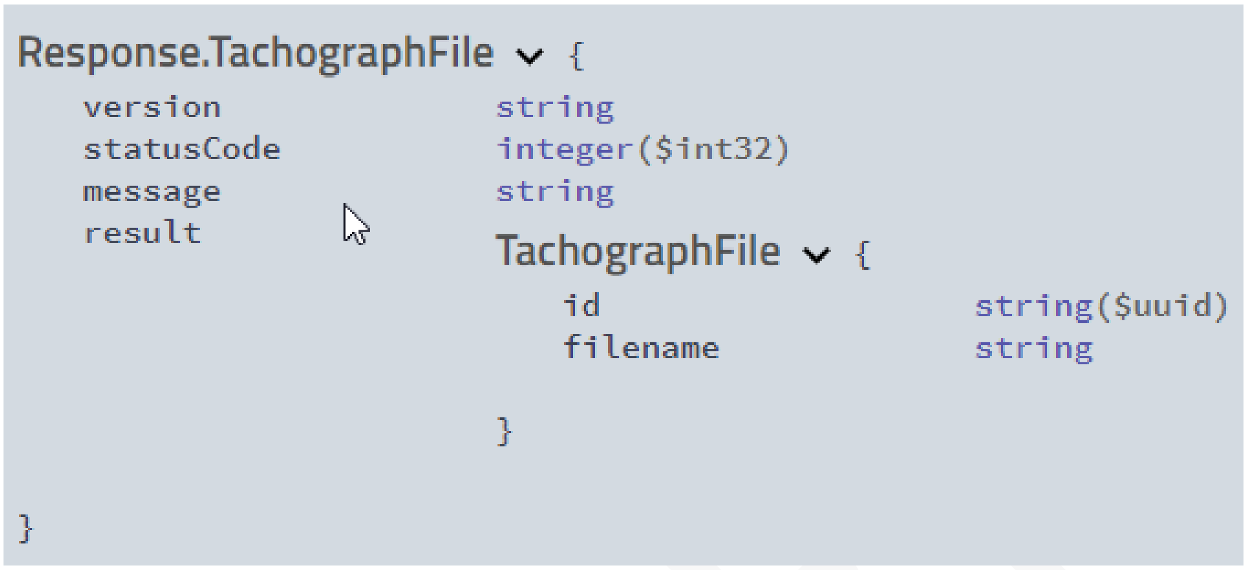


```
TachographFileData ⌄ {
    description:
                      Upload DTO for upload of tachograph files

                      filename must also contain the file extension
                      blob is the files content in base64

                      {
                         filename:"M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd",
                         blob:"YmFzZTY0...ZXhhbXBsZQ=="
                      }
    filename          string
                      example: M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd
    blob              string($byte)
                      example: YmFzZTY0...ZXhhbXBsZQ==

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online

[GET] /TENANTS/{TENANTID}/TACHOGRAPHFILES/{TACHOGRAPHFILEID}

Read information about an existing tachograph file:

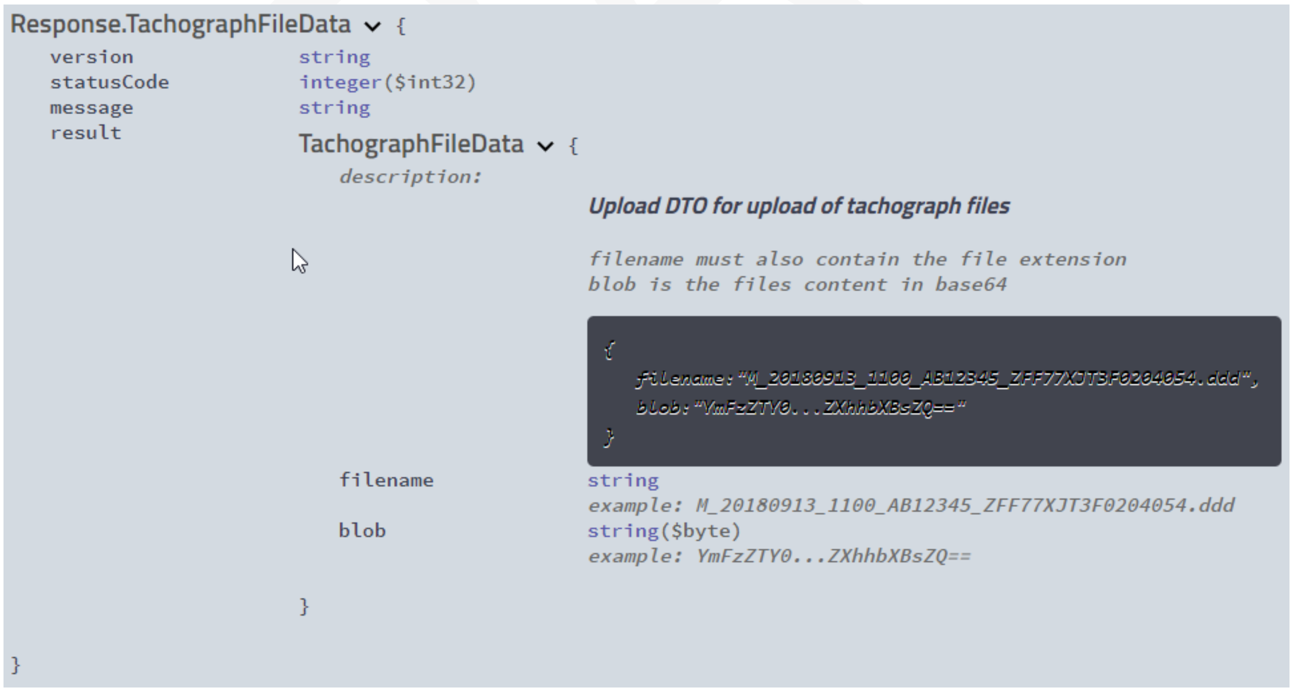


```
Response.TachographFile ⌄ {
    version          string
    statusCode       integer($int32)
    message          string
    result           TachographFile ⌄ {
                         id           string($uuid)
                         filename     string

                     }

}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **TachographFileID**: the unique tachograph file ID (UUID)

[GET] /TENANTS/{TENANTID}/TACHOGRAPHFILES/{TACHOGRAPHFILEID}/DOWNLOAD

Download tachograph file as base64:



```
Response.TachographFileData ⌄ {
    version          string
    statusCode       integer($int32)
    message          string
    result           TachographFileData ⌄ {
                         description:
                                          Upload DTO for upload of tachograph files

                                          filename must also contain the file extension
                                          blob is the files content in base64

                                          {
                                             filename:"M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd",
                                             blob:"YmFzZTY0...ZXhhbXBsZQ=="
                                          }
                         filename         string
                                          example: M_20180913_1100_AB12345_ZFF77XJT3F0204054.ddd
                         blob             string($byte)
                                          example: YmFzZTY0...ZXhhbXBsZQ==

                     }
}
```

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **TachographFileID**: the unique tachograph file ID (UUID)

[GET] /TENANTS/{TENANTID}/TACHOGRAPHFILES/{TACHOGRAPHFILEID}/DOWNLOAD/FILE

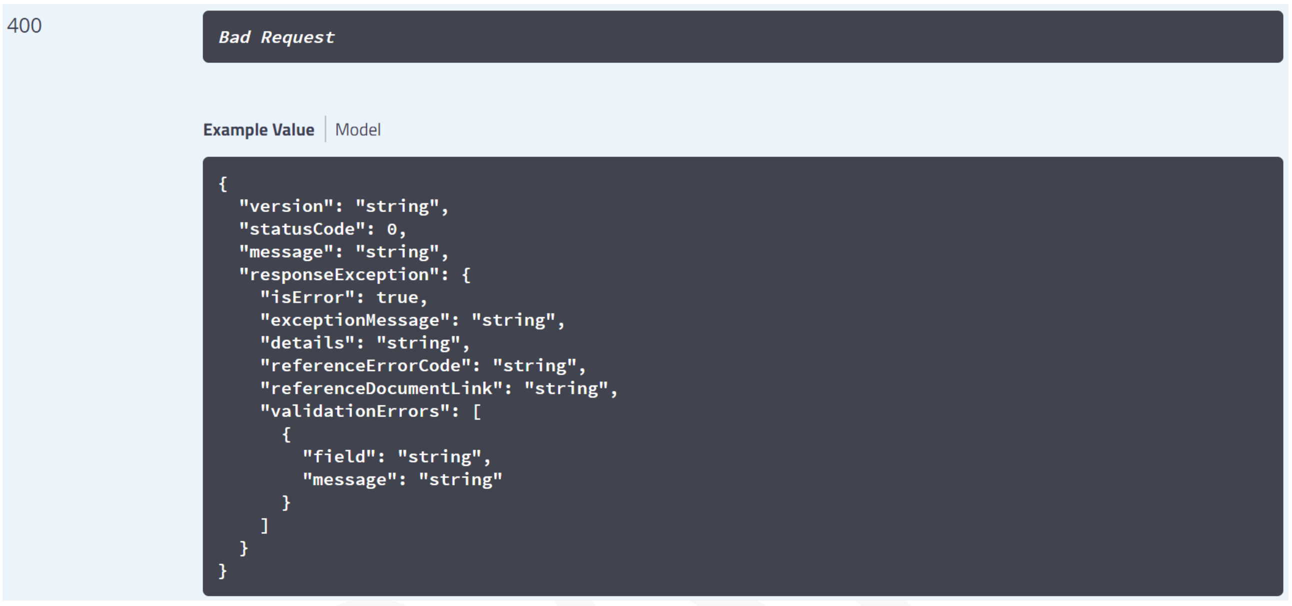
Download tachograph file as octet-stream:

- [REQUIRED] **TenantID**: is the unique id that is used to identify customers in Tacho Online
- [REQUIRED] **TachographFileID**: the unique tachograph file ID (UUID)

APPENDIX A: OPERATION RESPONSE CODES

Handling the response In case of an error, an error message is returned as plain text. The error message has the following layout:

- Errorcode: standard http error codes
- Message: custom message that provide a reason text (always in English)



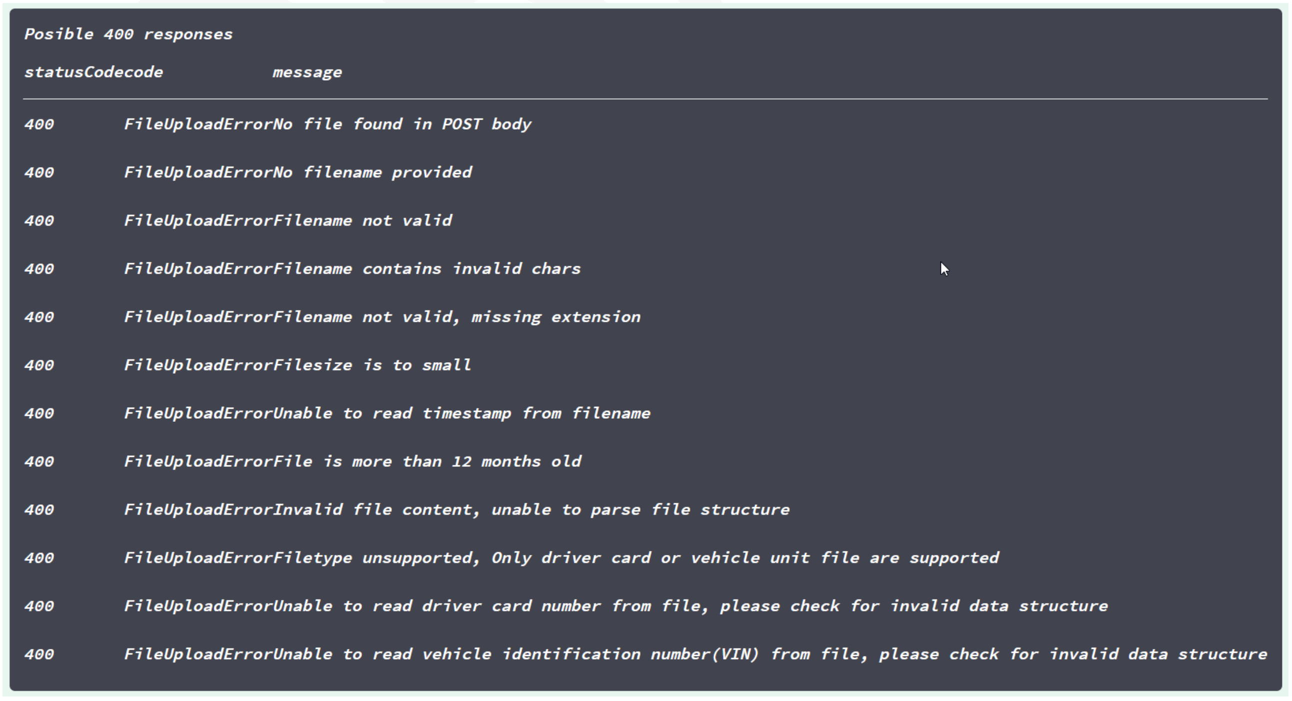
400

Bad Request

```
{
  "version": "string",
  "statusCode": 0,
  "message": "string",
  "responseException": {
    "isError": true,
    "exceptionMessage": "string",
    "details": "string",
    "referenceErrorCode": "string",
    "referenceDocumentLink": "string",
    "validationErrors": [
      {
        "field": "string",
        "message": "string"
      }
    ]
  }
}
```

EXAMPLE OF MESAGGES

In this example, we look at the error codes from a bad request from: Uploading of a tachograph file to Tacho Online ([POST] /Tenants/{TenantID}/TachographFiles):



```
Posible 400 responses
statusCodecode         message

400       FileUploadErrorNo file found in POST body
400       FileUploadErrorNo filename provided
400       FileUploadErrorFilename not valid
400       FileUploadErrorFilename contains invalid chars
400       FileUploadErrorFilename not valid, missing extension
400       FileUploadErrorFilesize is to small
400       FileUploadErrorUnable to read timestamp from filename
400       FileUploadErrorFile is more than 12 months old
400       FileUploadErrorInvalid file content, unable to parse file structure
400       FileUploadErrorFiletype unsupported, Only driver card or vehicle unit file are supported
400       FileUploadErrorUnable to read driver card number from file, please check for invalid data structure
400       FileUploadErrorUnable to read vehicle identification number(VIN) from file, please check for invalid data structure
```

APPENDIX B: RESOURCES

TACHO ONLINE API RESOURCES

- Get the latest documentation and examples from: support@tachoonlien.dk (online archive “Developer” will be added in the future)
- Tacho Online API key request. Please contact: support@tachoonline.dk (online form will be added in the future)
- Technical support: contact our customer support team: support@tachoonline.dk

OTHER RESOURCES

- Wikipedia article about REST API
- OAuth
- POSTMAN
- JSON Web Tokens
- HTTP Error Codes
- JSON
- StackOverflow

APPENDIX C: SOLVING KNOWN ISSUES

No, know issues. Please contact support@tachoonline.dk if you encounter any problems.

REVISION HISTORY

Below you see the full revision history for the Tacho Online API

REVISION	DATE	DESCRIPTION	AUTHOR
1.0.0	2018-11-09	Document created	SPE
1.1.0	2018-11-19	Added support for handling Tacho activities and general editorial changes.	SPE
1.1.1	2018-12-14	Documentation corrections to the base URL	SPE