**Federal Public Service
Mobility and Transport**

DIV – Expose Data

Specifications API-Service

Request Registration Info v1

Inhoud

Document history

Revisions

v1	12/2019	Base version	

Related documents

DataContract	DIV Expose Data - API-Service DataContract *	List of exposed attributes
Technical	DIV Expose Data – OpenAPI -specifications Service Registrations	

1 Introduction

This document contains the functional specifications for the API-service 'Request Registration' within the service inventory of DIV Expose Data.

The specifications initially have been based on requirements <u>derived from the AS-IS interfaces</u> and to fully support the functionality of the AS-IS.

Functionality

This service does expose registration and related titular- and vehicle-data. It also allows to request historical data.
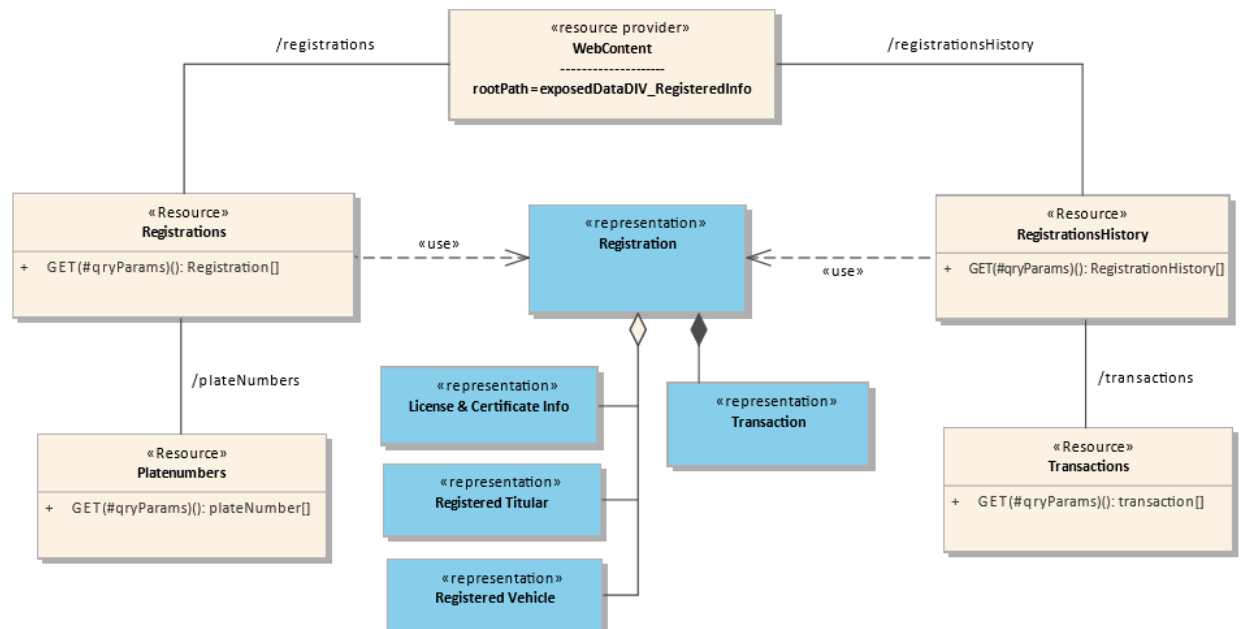
Technology

The service is implemented based on REST and it will return data in JSON-format.

2 Service Interface Description

2.1 Authentication

See the requirements document, paragraph 'API-Services & Authentication'.

2.2 API-model

Available URI's	Description
/registrations	URI to the resource actual registrations
/registrations/plateNumbers	URI to the resource list of plate numbers
/registrationsHistory	URI to the resource historical registrations
/registrationsHistory/transactions	URI to the resource list of transactions

Resource	Description
Registrations	This resource combines actual data from the different sub data-domains: license, certificate, registered titular and registered vehicle
Platenumbers	This resource does contain plate numbers
RegistrationsHistory	This resource combines historical data from the different sub data-domains: license, certificate, registered titular and registered vehicle
Transactions	This resource does contain all transactions

2.3 Operations

This section describes some available URI's.

URI	Description
GET /registrations?plateNr={plateNr}	Returns the registration actual data for a plate number
GET /registrations/plateNumbers?companyNr={kboNr}	Returns a collection of all plate numbers for the requested arguments
GET /registrationsHistory?vin={vin}&dateTimeFrom={dtFrom}}&dateTimeTo={dtTo}	Returns the registration historical data for a vehicle identification number and period
GET /registrationsHistory/transactions?plateNr={plateNr}	Returns the registration historical data for a vehicle identification number and period

Note only URI's will be available following the business protocol.

2.4 Query Parameters (input data)

Query parameters content	
plateNr (*)	The plate number of the vehicle.
plateUID (*)	The license unique identifier linked to the plate number
vin (*)	The Vehicle Identification Number
unifier	The unifier which, in combination with the VIN, makes the identification of the vehicle 100% unique.
nationalId (*)	The unique identifier of a natural person (RR/RN)
companyNr (*)	The unique identifier of an organisation (KBO/BCE)
certificateId (*)	The identifier number of the certificate (CIM).
dateTime	The date for which the data requested; the situation on that date. When not passed the data based on the actual situation will be returned.
dateTimeFrom	Can only be requested in combination with the parameter 'dateTimeTo'. To be used when historical data wanted for a certain period.
dateTimeTo	Can only be requested in combination with the parameter 'dateTimeFrom'. To be used when historical data wanted for a certain period.
languageCode	The language for which the related reference-descriptions, should be returned.

(*) **Rule**: at least one of the query parameters should be specified.

Parameters only can be used as allowed by the business protocol.

2.5 Returned value (output data)

2.5.1 Data

Refer to the extension document 'DataContract' appropriate for the stakeholder

2.5.2 Return and error codes

Refer to the OpenAPI-specifications services 'Registrations' and 'RegistrationsHistory'.

2.6 Rules

Rule	Description
Filter attributes	Only attributes will be exposed following the protocol defined for the requestor and legal-purpose
Object titular.person	Only added when titular-type is a natural person
Object titular.organisation	Only added when titular-type is a moral person

2.5.1 Data

3 Some scenario's

Scenario	URI	Remarks
Get registered **current situation** for plate number	/registrations?platenr={plateNr}	One row as result
Get registered current situation for vehicle vin and unifier	/registrations?vin={vin}&unifier={unifier}	One row as result
Get registered current situation for vehicle vin	/registrations?vin={vin}	Multiple rows possible as result
Get registered current situation for natural person	/registrations?nationalid={nationalNr}	Multiple rows possible as result
Get registered current situation for organization	/registrations?companynr={kboNr}	Multiple rows possible as result
Get registered **past info** for plate number with date in the past	/registrations?platenr={plateNr}&date={date}	One row as result
Get registered past info for vehicle vin	/registrations?vin={vin}&unifier={unifier}&date={date}	One row as result
Get registered past info for natural person	/registrations?nationalid={nationalNr}&date={date}	Multiple rows possible as result
Get registered past info for organization	/registrations?companynr={kboNr}&date={date}	Multiple rows possible as result
Get **historical** info list	/registrationsHistory?platenr={plateNr}&datetimefrom={dtFrom}&datetimeto={dtTo}	Multiple rows possible as result.
Get list of **transaction data**	/registrationsHistory/transactions?platenr={plateNr} /registrationsHistory/transactions?platenr={plateNr}}&datetimefrom={dtFrom}	Multiple rows possible as result.