DIV – Expose Data

Requirements External Stakeholders

Case Registration v1

Inhoud

Document history

Revisions

v1	12/2019	Base version	

Related documents

	DIV Expose Data - API-Service Registration	Detail functional specifications

1 Introduction

This document describes the requirements for the external stakeholders within the context of DIV Expose Data.

Initially the list of requirements is based on requirements derived from the AS-IS interfaces; this to fully support the functionality of the AS-IS. It's not the main goal to deviate a lot from those AS-IS requirements, however the achieved list can be revised by internal and external stakeholders.

This document contains besides the list of requirements also the related use-cases.

2 Requirements

2.1 Groups of external stakeholders

Mainly three groups of external stakeholders can be defined, based on their kind of requests;
- Group 1: request registered titular information for inspection and/or making fines,
- Group 2: request registered vehicle-information to support specific activities within the mobility sector,
- Group 3: request registered overall information for purposes like there are taxation, history- and study-needs.

An external stakeholder can have needs causing he can be linked to one are more of the above groups.

2.2 Data domains

The DIV registers data which can be divided in following data-domains;
- **Registration**: information containing registration- & transaction-data, related titular- and limited vehicle-data,
- **Registered Titular**: registration related titular-data (persons and organizations) as printed on the certificate (CIM),
- **Registered Vehicle**: data of vehicles as registered at the DIV.

2.3 Functional Requirements

Requirement ID	Description	Remarks
	Registration	
FUN3.01	A service must allow the stakeholder to receive **current** registration-related information; containing data from data domains Registration, related Titular and Vehicle. This based on parameters like plate number, vehicle identification number (combination VIN and unifier), identification-reference of a person or identification-reference of an organization. The service should allow to request either a limited fix predefined set of attributes, either the full set of available attributes.	Stakeholder group 2 & 3
FUN3.02	A service must allow the stakeholder to request **historical** information. This is based on the previous requirement. In addition, it allows to specify a date or a period in-the-past.	Stakeholder group 3
FUN3.03	Related to requirements 3.01, it should be possible to request a list of plate numbers.	
FUN3.04	Related to requirements 3.02, optionally it should be possible to request the registration related list of transactions and list of certificates per plate number	Stakeholder group 3
	[Common]	
FUN9.01	Each service will return only attributes allowed by the protocol defined for the stakeholder and legal purpose.	
FUN9.02	When appropriate the service will allow to pass a preferred language to have code-related descriptions/labels returned.	

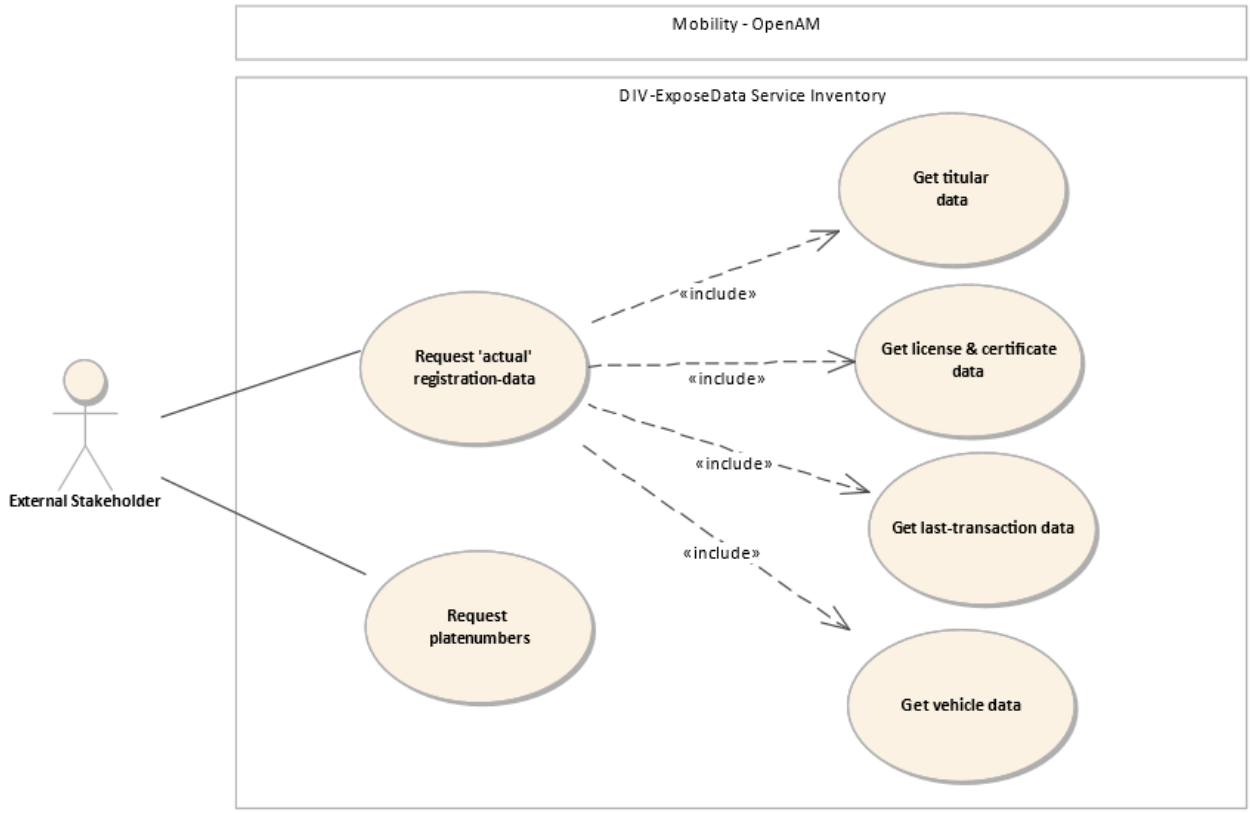
2.4 Non-functional Requirements

The following non-functional or quality requirements are listed as being relevant for external stakeholders. Note internal quality requirements have not been listed here.

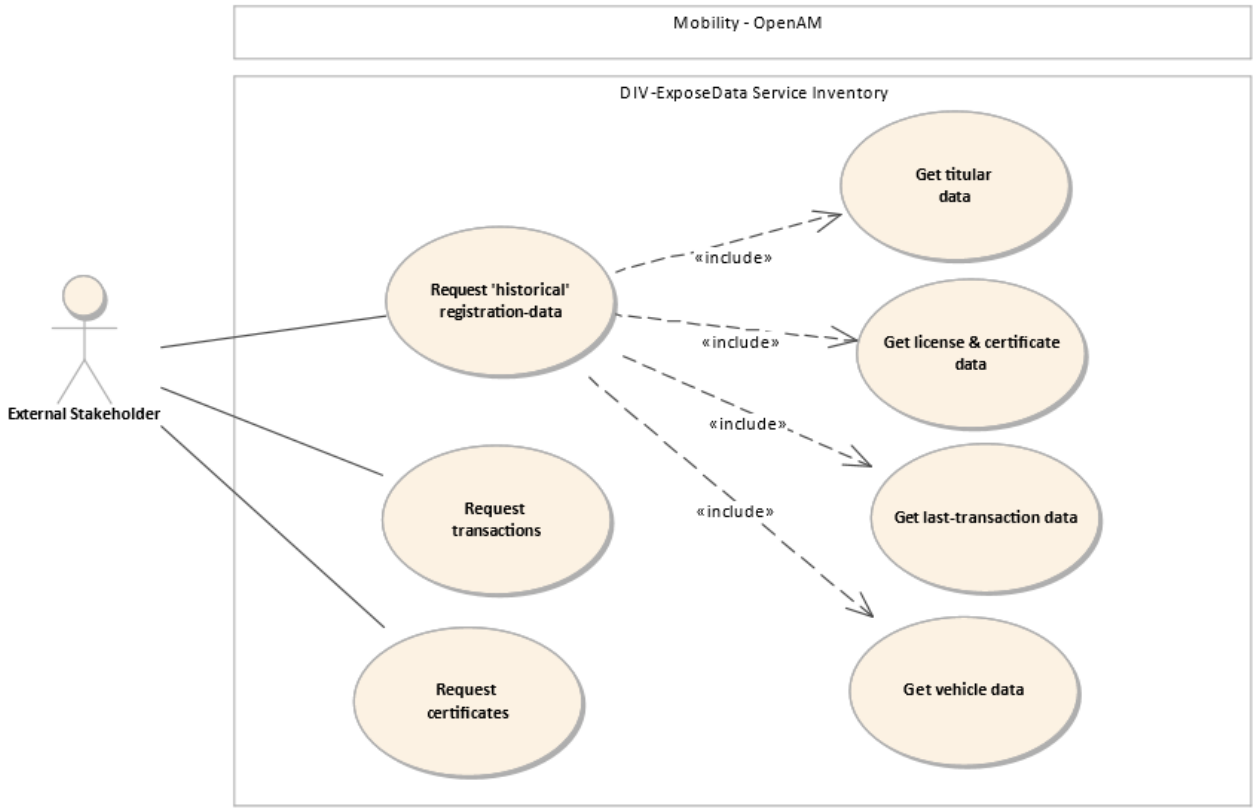
Requirement	Description	Feedback stakeholder
Availability	The degree to which the service is operable and accessible when required for use, often expressed in terms of percent of time the solution is available.	
Functionality	The degree to which the service functions meet user needs, including aspects of suitability, accuracy, and interoperability.	
Performance	The degree to which the service performs its designated functions with minimum consumption of resources. Can be defined based on the context or period, such as high-peak, mid-peak or off-peak usage.	
Reliability	The ability of the service to perform its required functions under stated conditions for a specified period of time, such as mean time to failure of a device	
Usability	The ease with which a user can learn to use the service	

3 Use-Case Diagrams

3.1 Request Registered Info



3.2 Request Registered Historical Info



4 Use-Case Details

4.1 Common

	Contains the following steps…	Remarks
Pré-steps	• Authenticate the requestor • Check the passed legal purpose (protocol) • Check the combination of the passed arguments	Executed for every main use-case
Post-steps	• Filter the gathered data based on the protocol defined for the requestor and legal purpose • Log the request • Return the filtered data	Executed for every main use-case

4.2 Request Registered Info

4.2.1 Realized requirements

- FUN3.01 and FUN3.03

4.2.2 Basic flow

The main scenario

Contains the following steps… based on your protocol	Remarks
• *Perform the common pré-steps* • Get the needed attributes from the registration data-domain (actual license and actual certificate) • Add the identification and address of the titular • Add data of the registration related last-transaction • Get the related attributes from the vehicle data-domain • *Perform the common post-steps*	

4.2.3 Alternate flows

Several alternate flows may exist depending on the result of some events/actions of the basic flow.

Alternate flows…	Remarks

4.2.4 Input and output data

Input data do concern the values which can be passed as arguments to the service-call. Output data is the structure of the data or result-set to be returned.

Input

Plate number	The registered plate number
Vin	The vehicle identification number of the vehicle
Unifier	A sequence number (Belgian) to make the vin 100% unique
Date	The date where for the data are requested
Date To	In case data for a period is requested; should be filled together with the previous input parameter
National number	The unique identifier of a natural person
Company number	The unique identifier of an organisation
CIM number	The identifier number of the certificate.
Plate Type	The requested plate type: normal, commercial or BSD plates. The default is normal.

	Note the use of commercial and BSD only when authorised.
Language	The language for which the related reference-descriptions should be returned

Note arguments only can be used following the protocol.

Output

See the next paragraph specifications API-service.

4.2.5 Specifications API-Service

The webservice specification documents will contain the detailed description of the functionality and the data-contract.

Please refer to the following document for a complete description;

DIV Expose Data - API-Service Registrations

4.3 Request Historical Registered Info

4.3.1 Realized requirements

- FUN3.02 and FUN3.04

4.3.2 Basic flow

See previous use-case.

Note this service does allow to request ‘actual’ data for a period.

4.3.3 Alternate flows

See previous use-case.

4.3.4 Input and output data

Input data do concern the values which can be passed as arguments to the service-call. Output data is the structure of the data or result-set to be returned.

Input

See previous use-case.

The request historical information the arguments either ‘Date’ or either the combination ‘Date’ and ‘Date To’ should be specified.

Output

See the next paragraph specifications API-service.

4.3.5 Specifications API-Service

The webservice specification documents will contain the detailed description of the functionality and the data-contract.

Please refer to the following document for a complete description;

DIV Expose Data - API-Service RegistrationsHistory

5 API-Services & Authentication

The authentication of the stakeholder will be achieved by use of Open-AM and OAuth.

The following header-parameters can or should be foreseen;

Organisation	This parameter contains the identification of the organization executing the request	A KBO/BCE-number; It is the official 10-digit company number as known in the official company register. Mandatory.
Target-Organisation	This parameter contains the identification of the organization for which the information is intended or from which the information is coming.	A KBO/BCE-number. Mandatory.
Application	This is a description of the requesting business application. This description will be agreed and predefined by SPF Mobility&Transports and is based on the business authorization to the target_organisation.	Mandatory.
User-Id	This parameter needs to assure to be able to identify the person or the organizational unit who is executing the request. This identification needs to be done by the users own organization. This parameter is kept in the logs and when necessary (for example in case of a legal investigation) the organization needs to be able to identify the user or unit. In case the request is not initiated by an individual user or unit, then an identifiable name of the automated process should be entered.	Mandatory. Preferable not the nationalID of the person.
User-Organisation	The identification of the organization of the user.	A KBO/BCE-number. Mandatory.
User-Reference	A reference assigned by and meaningful to the user.	
Accept-Language	This parameter specifies the language in which multi valued properties of the response should be returned. Available values : nl, fr, en, de	

Note the above services will be accessible only when allowed by the business protocol.