

EUCARIS

XML Message Specification VHINS (Insurance)

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Related Documentation

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[DOC-2]	1.0.4	13-1-2021	EUCARIS 8.0 XML Message Specification EUCARIS Envelope
[DOC-3]	0.0.12	22-3-2021	EUCARIS 8.0 Core UC-01 Send Message to EUCARIS
[DOC-5]	0.0.2	1-11-2022	EUCARIS Web client UC 131 VHINS Retrieve Vehicle Insurance information
[DOC-5]		29-04-1999	COUNCIL DIRECTIVE 1999/37/EC of 29 April 1999

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1. Introduction

1.1 General

DIRECTIVE (EU) 2021/2118 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL
of 24 November 2021, Article 4

Checks on insurance

1.

Member States shall refrain from making checks on insurance against civil liability in respect of vehicles normally based in the territory of another Member State and in respect of vehicles normally based in the territory of a third country entering their territory from the territory of another Member State.

However, they may carry out such checks on insurance provided that those checks are non-discriminatory, necessary and proportionate to achieve the end pursued, and:

(a)

are carried out as part of a control which is not aimed exclusively at insurance verification; or

(b)

form part of a general system of checks on the national territory which are carried out also in respect of vehicles normally based in the territory of the Member State carrying out the check, and do not require the vehicle to stop.

2.

On the basis of the law of the Member State to which the controller is subject, personal data may be processed where necessary for the purpose of combatting the uninsured driving of vehicles in Member States other than the Member State of the territory in which they are normally based. That law shall be in accordance with Regulation (EU) 2016/679 of the European Parliament and of the Council (*) and shall also lay down suitable measures to safeguard the data subject's rights and freedoms and legitimate interests.

Via the Insurance exchange network, information on vehicle insurance, can be obtained by the license plate and reference date. An inquiry is done either to a specified recipient Member State. A Member State will report a insurance as 'found' if it has Insurance information.

1.2 Definitions

EUCARIS	European Car and Driving Licence Information System
MS	Member State.
NCP	National Contact Point, a designated competent authority of a Member State for the cross-border exchange of insurance data.
Insurance	Vehicle Insurance Network
(XML) node	Element bundling underlying XML elements. In an XSD, an XML node is a complex type element, containing a sequence of underlying elements.
(XML) element	The name and value of a certain data item.
XSD	XML Schema Definition

2. Insurance architecture

VH insurance services are available on EUCARIS core, two EUCARIS cores can directly interact with each other(peer-2-peer). There is no EU HUB or broker involved.

3. EUCARIS Insurance services

3.1 Available messageservices

The following EUCARIS services are available for Insurance:

- VHINS – Vehicle Insurance Data. – This service handles the message dialogue `RequestByRegistrationNumber` and `VHINSResponse`.

The VHINS service is described in Chapter 4.

The message specifications are given in Chapter 5.

Length, format and functional use of message elements is described in Annex A – Nodes and elements.

Insurance messages are exchanged within a EUCARIS Envelope. The EUCARIS Envelope is specified in [DOC-2].

4. VHINS

4.1 Goal

The VHINS messageservice is used to exchange vehicle insurance related to **one vehicle(licenseplate)**.

4.2 Technical service description

For the EUCARIS Envelope, refer to [DOC-2].

The characteristics of the VHINS message service is the following:

MessageService	Message category	Message 'type' (message name)	PriorityCode	Number of inquiries (messages) in one envelope
VHINS	Request	RequestByRegistrationNumber	1 ('Synchronous')	1
	Response	<i>VHINSResponse</i>	N/A	1. There is one response (message).

4.3 Requesting side requirements

4.3.1 Flow Description

The trigger to start an VHINS workflow is a request message coming from a certain sender Member States' client application (EUCARIS web client or customized client). The sending of requests and processing of responses is carried out in a synchronous session, i.e. the time out is such that a user behind the client application can fire a request and wait for the response (e.g. 10 seconds).

The workflow processing by EUCARIS is described in [DOC-3].

4.3.2 Search criteria

The following rules apply to making a RequestByRegistrationNumber

- A request contains a license plate number;
- A request contains a Reference Date and Time, denoting the date and time of which information is required. If the requester wants to inquire the current situation, Reference Date and Time are absent in the request.
- It is allowed to include separation characters in the license plate number, such as spaces or hyphens.
- When the inquiry is done by License number, the inquiry has to be done in one specific country. In some countries, more than one vehicle can be found, because License number is not necessarily unique in all connected countries.

A Insurance request message contains of the following search criteria:

1. **License plate**, part1 (mandatory), part2 (optional) and a reference date (optional).

Furthermore, the actor invoking the search (or its client application) is responsible to determine in what countries to search. The following options to denote recipients are available:

- To send the request to one specific recipient Member State, denote the code of this Member State in the request. It is possible to send a ‘request to self’, i.e. send a request where sender and recipient are the same. Each Member State can decide whether or not to grant authorisation for a ‘request to self’.

4.3.3 Population of the envelope

Insurance messages are contained within the EUCARIS envelope, of which the message specifications are described in [DOC-2]. This chapter describes how a client application should populate the envelope items when submitting a RequestByRegistrationNumber message to EUCARIS.

NestingLevel	Item	Occ	Type	Remarks
1	<i>EucarisEnvelope</i>			
2	(version)	1	Enum	1.0
2	<i>Header</i>	1		The header section contains routing info.
3	RecipientMemberStateCode	1	Enum	See also Ch. 4.3.2. One specific Member State – coding system ISO 3166-1 alpha-2
3	SenderMemberStateCode	1	Enum	The Member State the requesting authority represents– coding system ISO 3166-1 alpha-2
2	<i>Workflow</i>	1		The workflow section contains the metadata of the workflow.
3	WorkflowId	0		<i>Is assigned by EUCARIS.</i> A client application shall not populate this item.
3	<i>Info</i>	1		The <i>Info</i> section is mandatory to provide.
4	ExternalWorkflowId	1	Text	The workflowId assigned by the client application. Either use a UUID, at least version 4, or use a reference unique to the initiator of the workflow. This id will be returned in the response message.
4	MessageService	1	Text	The name of the message service. Must match with the (type) declaration at the <i>Messages</i> or <i>Message</i> level. Possible value ‘VHINS’
4	ServiceExecutionReasonCode	1	Enum	Denotes the business reason why the request is sent. Possible value for a Insurance request: 0: Not specified
4	ExternalReferenceNumber	0-1	Text	Can be used to provide a reference number from a domestic system. If and how this element is used, is a Member State’s decision. If populated, it will be returned in the response message.

NestingLevel	Item	Occ	Type	Remarks
4	InitiatingParticipantName	0		<i>Is assigned by EUCARIS.</i> A client application shall not populate this item.
4	InitiatingOrganisationCode	1	Enum	The type of organisation that is responsible for sending out the request. Possible values for a Insurance request: 2: Police 6: Competent Authority
4	InitiatingOrganisationName	1	Text	The (official) name of the organisation that is responsible for sending the request.
4	InitiatingSenderName	1	Text	Name of a user or alias of a user (retraceable to the actual user in an audit trail), or name of an automated system, responsible for sending the request.
4	InitiatingDateTime	1	DT	Date and time the request emerged.
4	PriorityCode	1	Enum	Denotes the type of processing expected by the client application. Possible values: 1 (Synchronous) Other priority codes cannot be used in this message service.
4	SupportedResponseVersion	1	Enum	Mandatory to provide for this message service. Denotes the maximum message version of the Insurance response message supported by the client application. Must be a known version. Refer to 5.1.1 for known versions.
4	RecipientMemberStates	0		Is not used for Insurance messages.
2	Body	1		The body section contains one request message, including message metadata.
3	Messages	1		
4	(type)	1	Text	The name of the message type. Must match with the message service declaration. Possible value 'RequestByRegistrationNumber'
4	(version)	1	Enum	Must be a known version. Refer to 5.1.1 for known versions.
4	Message	1		Only one occurrence allowed for this message service.
5	MessageId	0		<i>Is assigned by EUCARIS.</i> A client application shall not populate this item.
5	ExternalMessageId	1	Text	The MessageId assigned by the client application. Either use a UUID, at least version 4, or a reference unique to the initiator of the workflow. This id will be returned in the response message as <i>ReferenceExternalMessageId</i> .
5	ReferenceMessageId	0		Not applicable.
5	ReferenceExternalMessageId	0		Not applicable.
5	ReplyingMemberStateCode	0		Not applicable.

NestingLevel	Item	Occ	Type	Remarks
5	<i>Content</i>	1		In this node, provide the actual request message.

4.4 Responding side requirements

4.4.1 Flow description

The trigger to start this flow is a (single) request message coming from the Sending MS..
Processing of the workflow by EUCARIS is described in [DOC-3]. Refer to the **basic flow**.

4.4.2 Search methods

The request contains an the license plate number.

4.4.2.1 Search vehicle

The following rules apply to answering a Insurance request

- If the search criteria of vehicle license plate do not identify the vehicle uniquely, two responses are possible:
 - Or return for all vehicles, the insurance information
 - or give an error message that the vehicle can't be identified uniquely, message 103(too many records). In that case also provide a contact (via message 509) via which the Insurance authority/police can resolve the issue in a non-automated way (i.e., identify the vehicle uniquely, and receive the insurance information , of that vehicle)
- Data that is marked in [doc-2] as “mandatory” has to be provided if it is available, where available means ‘available in the national domain’.¹ However, data that is marked as “optional” can be withheld by a Member State.
- An inquiry without Reference Date and Time filled is to be interpreted as inquiry of the current situation, which means that the current insurance data are provided.
- It is mandatory to provide insurance information, it is optional to provide information about the vehicle signals or make.

4.4.2.2 Inquiry result

The result consists of zero, one or more vehicles with insurance information

The response may contain

- Vehicle information, signals
- Insurance information

¹ It may be necessary, for data provision, to inquire various national authorities. E.g. the vehicle-owner-holder data may be available at the Registration Authority, while (part of the) information on vehicle signals is available at the police.

The minimum mandatory data in the response message is the vehicle information and insurance information, signals can be absent.

4.4.3 Response envelope to the client

The response envelope sent to the client application, making the request, contains the response to the request as well as the original request.

4.4.4 Population of the envelope

Insurance messages are contained within the EUCARIS envelope, of which the message specifications are described in [DOC-2]. This chapter describes how a legacy system should populate the envelope items when submitting a *VHINSResponse* message to EUCARIS.

NestingLevel	Item	Occ	Type	Remarks
1	<i>EucarisEnvelope</i>			
2	(version)	1	Enum	1.0
2	<i>Header</i>	1		The header section contains routing info.
3	RecipientMemberStateCode	1	Enum	SenderMemberStateCode from the request– coding system ISO 3166-1 alpha-2
3	SenderMemberStateCode	1	Enum	Member state providing the response - coding system ISO 3166-1 alpha-2
2	<i>Workflow</i>	1		The workflow section contains the metadata of the workflow.
3	WorkflowId	1	UUID	Contains <i>WorkflowId</i> provided by EUCARIS in the request message. <i>Mandatory to provide.</i>
3	<i>Info</i>	0		This section is provided by EUCARIS in the request message. <i>Shall not be echoed in the response message.</i>
2	<i>Body</i>	1		The body section contains the response message.
3	<i>Messages</i>	1		
4	(type)	1	Text	The name of the message type. Must match with the message service associated with the workflow. Possible value ‘VHINSResponse’
4	(version)	1	Enum	Denotes the version of the response message, supported by the legacy system. Must be a known version. Refer to 5.1.1 for known versions.
4	<i>Message</i>	1		One occurrence
5	MessageId	0		<i>Is assigned by EUCARIS.</i> A legacy system shall not populate this item.
5	ExternalMessageId	1	UUID	The MessageId assigned by the legacy system. Use a UUID, at least version 4.
5	ReferenceMessageId	1		Contains <i>MessageId</i> of the corresponding request. <i>Mandatory to provide.</i>

NestingLevel	Item	Occ	Type	Remarks
5	ReferenceExternalMessageId	0		<i>Is assigned by EUCARIS.</i> A legacy system shall not populate this item.
5	ReplyingMemberStateCode	0		<i>Is assigned by EUCARIS.</i> A legacy system shall not populate this item.
5	<i>Content</i>	1		In this node, provide the actual response.

5. XML Message Specs

For conventions used in the XML Message Specification, refer to *Annex D – XML message specs conventions*.

Messages are sent within the EUCARIS Envelope. For envelope specs, refer to [DOC-2]. This includes specification of the *ErrorNotification* message.

For requirements on populating the EUCARIS Envelope, refer to 4.3.3 (client application) or 4.4.4 (legacy system).

5.1.1 Message versions

Available versions for the request message = RequestByRegistrationNumber: 1.0

Available versions for the response message = *VHINSResponse*: 1.0

5.1.2 RequestByRegistrationNumber

NestingLevel	Item	Occ	Type	Remarks
1	RequestByRegistrationNumber	1		
2	RequestData	1		
3	VehRegistrationNumber	1		
4	VehRegistrationNumberPart1	1	Text	
4	VehRegistrationNumberPart2	0-1	Text	
3	ReferenceDateTime	0-1	DT	

5.1.3 VHINSResponse

Note: If the response is sent to the client application making the request, the original request is sent with it (that contains the search data).

The member state that provides a certain response, is denoted in the EUCARIS envelope element *ReplyingMemberStateCode*.

Nesting Level	Item	Occ	Type	Remarks
1	<i>VHINSResponse</i>	1		
2	<i>InformationResponseMessages</i>	0-1	Choice	When the information request yields information, node <i>InsuranceReplies</i> is present, otherwise node <i>InformationResponseMessages</i> .
3	<i>InformationResponseMessage</i>	1-n		
4	InformationResponseMessageCode	1	Enum	
4	InformationResponseMessageDesc	1	Text	
4	InformationResponseMessageVariable	0-1	Text	
2	<i>InsuranceReplies</i>	0-1	Choice	When the information request yields information, node <i>InsuranceReplies</i> is present, otherwise node <i>InformationResponseMessages</i> .
3	VehReferenceDateTime	1	DT	

Nesting Level	Item	Occ	Type	Remarks
3	<i>InsuranceReply</i>	1-n		Successful reply, i.e data about the insurance and vehicle signals, are provided. Multiple occurrences possible if the registration number identifies multiple vehicles.
4	<i>VehicleData</i>	0-1		
5	VehIdentificationNumber	0-1	Text	
5	VehMake	1	Text	
5	VehCommercialName	0-1	Text	
5	VehEuropeanCategoryCode	0-1	Enum	
5	<i>VehSignals</i>	0-1		
6	VehSignal	1-n		
7	VehSignalCode	1	Enum	
7	VehSignalRegistrationDate	0-1	Date	
7	VehSignalEndDate	0-1	Date	
4	<i>VehInsurance</i>	1		
5	VehInsStartDate	0-1	Date	
5	VehInsEndDate	0-1	Date	
5	VehInsNumber	0-1	Text	
5	VehInsCompanyName	0-1	Text	
5	<i>VehInsCompanyIdentification</i>	0-1		
6	VehInsCompanyIDNumber	1	Text	
6	VehInsCompanyIDTypeCode	1	Enum	
5	<i>VehInsAddress</i>	0-1		
6	AddrStreetName	0-1	Text	
6	AddrStreetNameExtra	0-1	Text	
6	AddrStreetNumber	0-1	Text	
6	AddrStreetNrAnnex	0-1	Text	
6	AddrPostcode	0-1	Text	
6	AddrPlaceOfResidence	0-1	Text	
6	AddrCountryCode	0-1	Enum	
5	<i>VehInsContactInformation</i>	0-1		
6	VehInsContactPhonenumber	0-1	Text	
6	VehInsContactEmailAddress	0-1	Text	
5	<i>VehInsPrintableName</i>	0-1		
6	<i>PrintableLines</i>	1-n		
7	PrintableLineSeqNumber	1	Int	
7	PrintableLine	1	Text	
5	<i>VehInsPrintableAddress</i>	0-1		
6	<i>PrintableLines</i>	1-n		
7	PrintableLineSeqNumber	1	Int	
7	PrintableLine	1	Text	
4	<i>DataQualityReplyMessages</i>	0-1		
5	<i>DataQualityReplyMessage</i>	1-n		
6	DataQualityReplyMessageCode	1	Enum	
6	DataQualityReplyMessageDesc	1	Text	
6	DataQualityReplyMessageVariable	0-1	Text	

6. Annex A – Nodes and elements

In Alphabetical order this annex describes in detail all the nodes and elements used in the messages. The following information is provided:

- **Item**

The name of the XML node or element (see also 5.1.2)

- **Type**

The data type, which only applies to XML elements and not to XML nodes. See also 5.1.2.

- **Len**

This column indicates the length of the element.

- ‘n’ indicates a fixed length where ‘n’ is the number of characters
- ‘m-n’ indicates a variable length where “m” is the minimum and “n” is the maximum

- **Description**

Information about the purpose of the node or element, rules for usage and examples of usage. For elements of type “Enum”, i.e. elements with a fixed set of values, in the description the possible values will be listed.

Item	Type	Len	Description
<i>InformationResponseMessage</i>			control messages which can be given to handle functional error situations
InformationResponseMessageCode	Enum		Error message concerning one individual information response that could not be processed
InformationResponseMessageDesc	Text	1-80	Description of the error
<i>InformationResponseMessages</i>			This node is used when one individual information request is unsuccessful, i.e. does not yield information. For more details see Annex B.
InformationResponseMessageVariable	Text	1-240	See Annex B.
ReferenceDateTime	DT		Reference date and time, i.e. date and time at which information is requested. In the context of this inquiry, date and time a road fee (for which failure to pay has been established) is levied.
Vehicle			This node contains data relating to the vehicle.
VehCommercialName	Text	1-50	Document abbreviation Fout! Verwijzingsbron niet gevonden.: D.3 The commercial description / type of the vehicle. For example, Focus, Astra, Megane.
VehEuropeanCategoryCode	Enum		Document abbreviation [DOC-5]: J Defined vehicle categories are M1, M2, M3 for vehicles transporting persons N1, N2, N3 for vehicles transporting goods Optionally, value G can be added to denote off-road vehicles, i.e. M1G, M2G etc. O1, O2, O3, O4 for trailers and semitrailer L1e – L7e for two- or three-wheelers C1 – C5, T1 – T5 for agricultural vehicles XXX in case the European category code is unknown
VehIdentificationNumber	Text	1-25	Document abbreviation [DOC-5]: E The identification number (VIN) of the vehicle as registered by the administration.
AddrStreetNumber	Text	1-25	Document abbreviation [DOC-5]: C1.3 or C3.3 Contains the street number or building number of the address.

Item	Type	Len	Description
			For examples see <i>VehInsAddress</i> .
AddrStreetNrAnnex	Text	1-25	Document abbreviation [DOC-5]: C1.3 or C3.3 Contains additions to the street number to distinguish between equivalent street numbers.
AddrPlaceOfResidence	Text	1-100	Document abbreviation [DOC-5]: C1.3 or C3.3 Contains place of residence or post town of the address. For examples see <i>VehInsAddress</i> .
AddrStreetName	Text	1-100	Document abbreviation [DOC-5]: C1.3 or C3.3 Contains street name of the address. For examples see <i>VehInsAddress</i>
AddrStreetNameExtra	Text	1-40	Document abbreviation [DOC-5]: C1.3 or C3.3 Contains additions to the street name to distinguish between equivalent street names within the same post town, e.g. for United Kingdom thoroughfare or dependent locality. .
AddrPostCode	Text	1-12	Document abbreviation [DOC-5]: C1.3 or C3.3 Contains Postcode of the address. Format according to national conventions.
AddrCountryCode	Enum		Code denoting the country associated with the address. Must always be provided. Coding system used: ISO-3166-alpha-2. The country may be a non-EU country.
<i>DataQualityReplyMessage</i>			See Annex B.
DataQualityReplyMessageCode	Enum		See Annex B.
DataQualityReplyMessageDesc	Text	1-80	See Annex B.
<i>DataQualityReplyMessages</i>			This node contains messages associated with the exchanged vehicle insurance information, e.g. messages about data quality. For further information see Annex B.
DataQualityReplyMessageVariable	Text	1-240	See Annex B.
VehInsAddress			This node contains an address, split in separate fields. Provide the address on the registration document, when available (this is the address under [DOC-5] C1 or C3). Otherwise, provide the current address. The node consists of the following parts: AddrStreetNumber AddrStreetNrAnnex AddrStreetName AddrStreetNameExtra AddrPostcode AddrPlaceOfResidence AddrCountryCode

Item	Type	Len	Description
			<p>Example 1, the Netherlands. Printable address Helperwestsingel 88A 9721 BH Groningen THE NETHERLANDS</p> <p>Split into separate fields, this yields: StreetNumber : 88; StreetNrAnnex: A; StreetName: Helperwestsingel; StreetNameExtra: <not applicable>; Postcode: 9721 BH; PlaceOfResidence: Groningen; Country code: NL</p> <p>Example 2, Belgium, Printable address Dijle 21 B402 2800 Mechelen BELGIE</p> <p>Split into separate fields, this yields: StreetNumber : 21; StreetNrAnnex: B402; StreetName: Dijle; StreetNameExtra: <not applicable>; Postcode: 2800; PlaceOfResidence: Mechelen. Country Code: BE</p> <p>Example 3, United Kingdom, Printable address 10B Barry Jackson Tower (=no. + building name) Estone Walk (thoroughfare) BIRMINGHAM (post town) B6 5BA (Postcode) UNITED KINGDOM</p> <p>Split into separate fields, this yields: StreetNumber: 10; StreetNrAnnex: B; StreetName: Barry Jackson Tower; StreetNameExtra; Estone Walk; Postcode: B6 5BA; PlaceOfResidence: Birmingham. Country code: GB</p>
PrintableLine	Text	1-100	Contains one line of the printable name or address.
PrintableLines			This node contains one or more Line
PrintableLineSeqNumber	Num	1-3	Number denoting the sequence order of printable lines.
VehInsContactPhonenumber	Text	1-15	Contains phone number fixed or mobile

Item	Type	Len	Description
VehInsContactEmailAddress	Text	1-130	Contains email address. The address provided must comply to the e-mail format.
VehInsCompanyIdentification			This node contains the identification number for a Vehicle Insurance company. The node consists of the following elements: VehInsCompanyIDNumber VehInsCompanyIDTypeCode
VehInsCompanyIDNumber	Text	1-25	The identification number of a legal entity (other than a natural person) .
VehInsCompanyIdTypeCode	Enum		Code denoting the type of company identification number, in combination with VehInsCompanyIDNumber. Value list: COC = Chamber of commerce number CIN = Company identification number VAT = VAT number (See https://en.wikipedia.org/wiki/VAT_identification_number for further information)
VehInsCompanyName	Text	1-200	The name of the insurance company.
VehInsReferenceDateTime	DT		= ReferenceDateTimeReq in case a reference date (time) was included in the request message, and if in the national register historic vehicle insurance data are available. = current date/time in case no reference date-time was included in the request message
VehInsurance			This node contains vehicle insurance information about one vehicle defined by licence number and, eventually, EU Category Code. The node consists of the following elements: VehInsReferenceDateTime VehInsCompanyName VehInsStartDate VehInsEndDate VehInsNumber The node consists of the following subnodes: VehInsAddress VehInsContact VehInsPrintableName VehInsPrintableAddress
VehInsAddress			This node contains the an address, split in separate fields. The node consists of the following parts: AddrStreetNumber AddrStreetNrAnnex AddrStreetName AddrStreetNameExtra AddrPostcode AddrPlaceOfResidence

Item	Type	Len	Description
			For examples See <i>VehInsAddress</i>
VehInsEndDate	Date		Last date at which the vehicle insurance is valid.
VehInsNumber	Text	1-20	The insurance policy identification number
VehInsPrintableAddress			<p>This node contains the printable address.</p> <p>It consists of one or more AddressLine.</p> <p>The printable address is formatted by the member state applying national conventions. The address will be shown exactly as it is delivered by the member state.</p> <p>Examples</p> <p>Helperwestsingel 88A 9721 BH Groningen</p> <p>Dijle 21 B402 2800 Mechelen</p> <p>10B Barry Jackson Tower Estone Walk BIRMINGHAM B6 5BA</p>
VehInsPrintableName			<p>This node contains the printable name of the vehicle insurance naem.</p> <p>The printable name is formatted by the member state applying national conventions. The name will be shown exactly as it is delivered by the member state.</p> <p>The printable name may contain elements that are not exchanged through separate fields, i.e. titles.</p> <p>Examples</p> <p>Sir John W. Frost, M.D. Irene K. de Groot e/v de la Peña RDW Voertuigtoelating en –Informatie Discount Car Leasing</p>
VehInsStartDate	Date		The first date at which the vehicle insurance is valid.
VehMake	Text	1-52	<p>Document abbreviation [DOC-5]: D.1</p> <p>The make of the car. For example Ford, Opel, Renault etc.</p>
VehRegistrationNumber			<p>Document abbreviation [DOC-5]: A</p> <p>The registration number (licence number) of the vehicle in the notation as registered by the administration.</p>
VehRegistrationNumberPart1	Text	1-15	Contains the RegistrationNumber, for Germany this part will contain the so-called "Ortcode or Districtcode"
VehRegistrationNumberPart2	Text	1-15	For Germany this part will contain the rest of the registration number.
VehSignal			<p>Document abbreviation [DOC-5]: Not applicable</p> <p>This node contains one specific signal related to the vehicle.</p> <p>A VehSignal always consist of the following elements:</p>

Item	Type	Len	Description
			VehSignalCode, The elements VehSignalRegistrationDate and VegSignalEndDate are optional.
VehSignalCode	Enum		Code for denoting the status of a vehicle or vehicle registration related circumstance or qualification, that normally emerged after registration of the vehicle. A signal/status may be temporary or definite. Value list: 1 = Vehicle stolen 9 = Registration suspended 11 = Vehicle registration plates stolen 12 = Re-registration blocked 13 = Vehicle exported 14 = Vehicle registration cancelled due to destruction 15 = Vehicle de-registered 16 = Duplicate vehicle registration certificate issued 17 = Vehicle seriously damaged 18 = Vehicle registration certificate stolen Provisions on when and how to provide signal information, is given in Chapter 3 (see Search and response rules for the various services). See Annex E for a definition and description of use of the available vehicle signals.
VehSignalEndDate	Date		The end date of registration of the vehicle signal.
VehSignalRegistrationDate	Date		The date of registration of the vehicle signal.
VehSignals			This node contains the EUCARIS specific signals. A vehicle can have multiple signals defined.

7. Annex B – Defined control messages

It is possible to give more than one control message to clarify (error) situations. For all control messages, the element `MessageVariable` can be used for further explanation. The message descriptions shall be communicated in the English language.

Three types of error messages are distinguished:

Message name	Kind of message/Situation	Examples
<code>InformationResponseMessage</code>	Error message concerning one individual information response that could not be processed	Vehicle not found, no insurance information found

7.1 Control messages when an individual information request is unsuccessful

These messages are put in *InformationResponseMessages*. A message contains the following elements:

`InformationResponseMessageCode`
`InformationResponseMessageDesc`
`InformationResponseMessageVariable`

The following messages are available. One or more messages can be used for explanation.

`InformationResponseMessageVariable` might be used to give additional details.

<code>InformationResponseMessageCode</code>	<code>InformationResponseMessageDesc</code>	<code>InformationResponseMessageVariable</code>
0	Unknown	
7	Message already processed	
101	No information found	
103	Too many records found	
105	Search input not correct	
119	No insurance information found	
508	An unexpected error has occurred	<Error code, description>
509	For further information please contact	<phone number>, <e-mail address>

7.2 Control messages regarding data quality

These messages are put in *DataQualityMessages*.

A message contains the following elements:

`DataQualityReplyMessageCode`
`DataQualityReplyMessageDesc`
`DataQualityReplyMessageVariable`

The following messages are available. One or more messages can be used for explanation. The reply message variable may be used to give additional details.

MessageCode	MessageDesc	MessageVariable
106	Unverified data	< further information>
509	For further information please contact	Contact data

Message 106: Use MessageVariable to give further information about unverified data.

There are several possibilities to specify the data:

1. If the whole dataset is unverified, indicate “complete dataset” in MessageVariable
2. If one node (or a few nodes) is/are unverified, indicate “node <nodename> (, <nodename>, ,,,,) in MessageVariable. Nodenames as text, without XML tags.
3. If one element (or a few elements) is/are unverified, indicate “element <element name> (, <element name>, ,,,,) in MessageVariable. Element names as text, without XML tags.
4. It is possible to use MessageCode 106 more than once to state all unverified data.

8. Annex C – XSD validation

Basis for validation applied in the XSD specifications is annex A. The restrictions that are mentioned in the description of elements will also be implemented in the XSD specifications (e.g. data type, minimum length, maximum length, enumeration).

Data in request and response messages will be validated against these XSD specifications.

Furthermore, the message and workflow metadata, denoted in the EUCARIS envelope, will be validated. EUCARIS will reject invalid envelopes, as well as envelopes with invalid content.

9. Annex D – Country codes

9.1 EUCARIS country code convention

For a request message, the SenderCountry is the country where the request originated, and the RecipientCountry is the country that is to receive the request.

In response messages, SenderCountry/RecipientCountry are reversed. Now, the SenderCountry is the country where the response originated, and the RecipientCountry is the country that is to receive the response.

9.2 Coding systems

EUCARIS supports the following coding system for country codes:

- EUCARIS country codes. The coding is based on a United Nations agreement on vehicle country codes (hereafter named DS code) <http://www.unece.org/fileadmin/DAM/trans/conventn/Distsigns.pdf>. However, for countries where there is more than one organisation that is National Contact Point for EUCARIS, to the country code, a sequence number might be added.
- ISO 3166-1 alpha-2

A client submitting a request, can choose the coding systems it wants to use, via the URL at which it submits the request. Each supported country coding system has a different URL.

In a consolidated response, the responding countries will be denoted in the coding system that was chosen while submitting the request.

The table below lists the countries and the coded values in various coding systems:

Country name (english)	ISO 3166-1 alpha-2	ISO 3166-1 alpha-3	DS code
Alderney	--	--	GBA
Austria	AT	AUT	A
Belgium	BE	BEL	B
Bulgaria	BG	BGR	BG
Croatia	HR	HRV	HR
Cyprus	CY	CYP	CY
Czech Republic	CZ	CZE	CZ
Denmark	DK	DNK	DK
Estonia	EE	EST	EST
Finland	FI	FIN	FIN
France	FR	FRA	F
Germany	DE	DEU	D
Gibraltar	GI	GIB	GBZ
Greece	GR	GRC	GR
Guernsey	GG	GGY	GBG
Hungary	HU	HUN	H
Iceland	IS	ISL	IS
Ireland	IE	IRL	IRL
Isle of Man	IM	IMN	GBM
Italy	IT	ITA	I
Jersey	JE	JEY	GBJ
Latvia	LV	LVA	LV
Liechtenstein	LI	LIE	FL

Country name (english)	ISO 3166-1 alpha-2	ISO 3166-1 alpha-3	DS code
Lithuania	LT	LTU	LT
Luxembourg	LU	LUX	L
Malta	MT	MLT	M
The Netherlands	NL	NLD	NL
Netherlands Antilles	AN	ANT	NA
Norway	NO	NOR	N
Poland	PL	POL	PL
Portugal	PT	PRT	P
Romania	RO	ROU	RO
Slovakia	SK	SVK	SK
Slovenia	SI	SVN	SLO
Spain	ES	ESP	E
Sweden	SE	SWE	S
Switzerland	CH	CHE	CH
United Kingdom	GB	GBR	GB

9.3 Artificial country codes

FIN2	Finland has two organisations hosting EUCARIS. FIN = Haltik (ICT agency providing technical data and communication services). FIN2 = The Finnish Transport Safety Agency (TRAFI). TRAFI is responsible for Prüm and CBE, Haltik is responsible for other EUCARIS services supported by Finland.
L2	Luxembourg has two organizations hosting EUCARIS: The SNCT (hosting the EUCARIS treaty services) and the Police (hosting the Prüm services). The SNCT uses 'L' as country code while the Luxembourg Police is using 'L2' as country code.
RO2	The 'Registrul Auto Român' (R.A.R.) was the organisation initial hosting EUCARIS and supplying data for the EUCARIS treaty using the RO country code. Mid 2010 the 'Romanian Driving Licence and Vehicle Registration Directorate' took over the responsibility for supplying both EUCARIS- and Prüm treaty data. Since the R.A.R is still using EUCARIS for their outbound requests the country code RO2 was assigned to the 'Romanian Driving Licence and Vehicle Registration Directorate'.
F2	France has two organizations hosting EUCARIS: The ministry of interior which is supplying Prüm treaty data using country code F, and the DPICA (Direction Programme Interministérielle Contrôle Automatisé) which is in charge of the automated control program for road safety in France, using code F2. The DPICA exchanges data regarding traffic fines.

10. Annex D – XML message specs conventions

10.1 Used conventions

The tables used to describe the XML messages provide the following information:

- NestingLevel
- Item
- (optional) Version
- Occ (occurrence)
- Type
- Remarks

10.1.1 Nesting level

Describes how the XML nodes and elements are nested in the message.

10.1.2 Item

The following items are distinguished:

- An ***XML node*** is indicated in bold & italic. Its name is denoted in PascalCase.
- An XML element is indicated by a normal appearance. Its name is denoted in PascalCase.
- An (xml attribute) is indicated between brackets. Its name is denoted in lowercase.

In Annex A, for every node and element, its functional definition and its use is described.

10.1.3 Version

This column is only present if more than one version of a message exists. Denotes the first version in which the node, element or attribute is part of the message. The item is present in all versions since the first version.

10.1.4 Occ

Value	Description
1	A mandatory item.
0-1	An optional item but if present, the item must be unique.
0-n	An optional item. When present, it may appear more than once.
1-n	A mandatory item. The item may also appear more than once

Remark:

If an optional item is absent, leave it out of the message entirely (do not send empty tags).

10.1.5 Type

Type	Description
Text	A sequence of characters. Usually, the minimum and maximum length of the sequence is specified (Annex A).

Type	Description
DT	Date and Time. Can be given in UTC format (Co-ordinated Universal Time) as 'CCYY-MM-DDThh:mm:ssZ' or 'CCYY-MM-DDThh:mm:ss±00.00', or can be given in local time with the offset to UTC as 'CCYY-MM-DDThh:mm:ssZ±nn.nn'. For more information see http://en.wikipedia.org/wiki/ISO_8601 .
Date	Date. Can be given as a date in format 'CCYY-MM-DD'
DateInc	Date that can be incomplete. Format 'CCYYMMDD'. See Annex A for further information
Int	Numeric, integer values only.
Dec	Numeric, fractional numbers possible.
Boolean	An element that either has a 'true' value or a 'false' value.
Choice	Allows one and only one of the nodes or elements contained in the selected group to be present within the containing node (exclusive choice).
Enum	Enumeration; the element has a specified set of values. The possible values are described in Annex A. In XSD validation, the value of the element in the message, will be checked against the possible values.
UUID	Universally Unique Identifier, version 4. For more information see http://en.wikipedia.org/wiki/Universally_Unique_Identifier and http://en.wikipedia.org/wiki/Universally_Unique_Identifier#Implementations

10.1.6 Remarks

Contains information about situations in which a node or element applies or not. Also contains information about relations between separate elements. Note: The functional definition and the use of each node or element is described in Annex A.

11. Annex E – Vehicle signals

A vehicle signal/status is a vehicle or vehicle registration related circumstance or qualification, that normally emerged after registration of the vehicle. A signal/status may be temporary or definite.

Signals that are current (“active”) at the time of requesting, are always communicated. Signals that are historic at the time of requesting, may be provided if the information providing Member State considers this useful in the VAT context. The start and expiry date of signals (*VehSignalRegistrationDate* and *VehSignalEndDate*, if applicable) shall be provided wherever possible.

1= Vehicle stolen

Definition: ‘Vehicle has been reported stolen or missing by the police, insurance companies or other sources’
When this signal applies, the vehicle is not allowed to use the public road, cannot be sold, and cannot be re-registered in another Member State. The holder and owner are not in possession of the vehicle.

13 = Vehicle exported

The signal is used to indicate that the vehicle has been de-registered in the Member State, because of export. The signal also indicates that the vehicle is now registered in another country (and this new country may or may not be part of the EUCARIS network).

When this signal is provided, the vehicle data are outdated. The last holder and owner are not in possession of the vehicle anymore.

The licence plates and registration certificate have become invalid. The vehicle cannot use the public road, with the plates and registration certificate coming from the Member State that provides this signal. It will have plates and registration documents from the Member State where the vehicle is now registered.

It is not possible to re-register the vehicle, using the registration data, plates or documents from the country providing the signal. Re-registration must be based on the data, plates and documents from the new Member State of registration.

14 = Vehicle registration cancelled due to destruction

Definition: ‘Vehicle has been reported end-of-life in accordance with Directive 2000/53/EC. The authorisation for the vehicle to be used in road traffic has been cancelled permanently’.

This signal is used for officially destroyed vehicles, by a licenced destruction company, after which a Certificate of Destruction (CoD) has been issued. The holder and owner are not in possession of the vehicle anymore.

When this signal applies, the vehicle does not exist anymore, it cannot be restored with the same VIN. Therefore, it is not possible that a vehicle with this signal uses the public road. Also, it is not possible to sell or re-register a vehicle with this signal.

When this signal is provided, the vehicle data are outdated.

15 = Vehicle de-registered

Definition: ‘Termination of the registration for unspecified reasons’.

Situations in which this signal maybe used’.

- a. “Unofficial” destruction, i.e. the vehicle is reported as destroyed, but there is no official CoD. The technical state of the vehicle is unknown (it may or may not still exist).
- b. Export - If this event cannot be specifically distinguished from other de-registration events, and/or if export is intended but not final, i.e. de-registration in the current Member State has been carried out, but the registration in the new Member State has not been completed..
- c. Withdrawal of the vehicle from road traffic, because there is no holder-owner anymore, or because there are holdership-ownership issues, or there are other administrative issues.

When this signal applies, the vehicle is not allowed to use the public road. Note that the signal does not imply anything about the technical condition of the vehicle (since the reason to provide it, may be purely

administrative). Therefore, the signal does not imply specific requirements for re-registration, e.g. a technical inspection. The vehicle cannot be sold or re-registered, prior to consulting the Member State providing the signal. When this signal is provided, the vehicle data are outdated.

16 = Duplicate vehicle registration certificate issued

This signal can be used if after loss, theft or severe damage to the vehicle registration certificate, this has been replaced by a new document, or a copy with the same document number.

The signal does not have a direct impact on enforcement or re-registration. It is merely an alert message to check the vehicle registration certificate carefully.

The previous version of this signal

17 = Vehicle seriously damaged

Definition: ‘The vehicle was seriously damaged in an accident or was reported to have dangerous defects at an inspection’.

If this signal applies, the vehicle is not allowed to use the public road, and cannot be sold or re-registered, before having passed a technical inspection.

9 = Registration suspended

Definition: ‘The authorisation for the vehicle to be used in road traffic is suspended for a limited period of time following which – provided the reasons for suspension have ceased to apply – it may be authorised to be used again, without involving a new process of registration.

This signal may be used for suspension on request of the vehicle owner, as well as suspension by the registration authority.

Suspension is an administrative matter, the signal does not say anything about the technical state of the vehicle.

If this signal applies, the vehicle is not allowed to use the public road. In a re-registration process, this signal has no impact. The signal may impact on the amount of vehicle tax the holder/owner have to pay in the Member State of registration.

18 = Vehicle registration certificate stolen

Definition: ‘Vehicle registration certificate has been reported stolen or missing by the police or other sources’.

This signal is used if the vehicle registration certificate has been reported stolen, *but only when no new certificate has been issued to the vehicle owner or registered keeper (yet)*. As soon as a new certificate is issued, the signal is not provided anymore.

(After that, signal 16 may be used to alert that multiple certificates were issued).

If this signal applies, the vehicle is not allowed to use the public road, and cannot be sold or re-registered.

11=Vehicle registration plates stolen

Definition: ‘Vehicle registration plate has been reported stolen or missing by the police or other sources’

This signal is used if the vehicle registration plates are reported stolen, and no new plates have yet been issued. If new plates are issued, a Member State can choose either to not provide the signal anymore, or to keep on providing the signal as an alert message that multiple plates have been issued.

Please note that in this situation, some countries issue a new plate with a new licence plate number than the previous one, while others issue a new plate with the same licence plate number.

Enforcement and re-registration impact: None, if the plate on the vehicle matches the vehicle registration certificate. Otherwise the vehicle is not allowed to use the public road and cannot be sold or re-registered.

12=Re-registration blocked

Definition: ‘Re-registration blocked for various administrative reasons’

The signal indicates that the Registration Authority wants to be contacted if the vehicle is offered for re-registration somewhere.

Possible reasons for providing this signal: 1. The holder or registered keeper of the vehicle has no legal right to sell or re-register the vehicle, 2. Because of tax issues, 3. Because of legal issues.

For the right to use the public road, the signal has no impact.

If this signal applies, re-registration is not possible (not before consulting the Registration Authority of the country where the vehicle is registered).