

EUCARIS

XML Message Specification VH notification

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Document control

Version	Date	Remarks
1.0.7	11-4-2023	VehRegistrationNumberOld is mandatory for accept, for reject optional. The reason for this is that documentation can be incomplete. Made the field make optional for Reject(VHNotificationReregistration). In the envelope when no UUID is given from client a random number will be given.
1.0.6	24-3-2023	Added ServiceExecutionReason 3 and 5, initiating organisation 1 is also allowed.
1.0.5	24-2-2023	Changed naming of messages, removed old in naming of VehRegistrationNumberOldPart1 VehRegistrationNumberOldPart2 Renamed attachments Renamed documentnumber, documentdate
1.0.4	22-2-2023	Removed descriptions in Nodes, update description of Date. Changed VH-NOT-DESTRUCT to VHNotificationOfDestruction
1.0.3	9-2-2023	Updated date format
1.0.2	7-2-2023	Renamed messagetype VH-NOT-REREG to VHNotificationReregistration. Changed CountryReq to enum. Removed descriptions from Annex A
1.0.1	2-2-2023	Added messageservicegroup
1.0.0	20-9-2022	Processed reviewcomments Sjaak Kempe

Related Documentation

ID	Name
[DOC-1]	Council Directive 1999/37/EC, 29-04-1999
[DOC-2]	EUCARIS 8.0 XML Message Specification EUCARIS Envelope
[DOC-3]	EUCARIS 8.0 Core UC-01 Send Message to EUCARIS
[DOC-4]	EUCARIS Web Client General Overview

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1. Introduction

1.1 General

VH Notification messages are used to exchange information from one country to another involved in respectively the import and the export of a vehicle or the destruction when a vehicle is scrapped.

Definitions

EUCARIS	European Car and Driving Licence Information System
EU Hub	EU system that can be used to exchange ProDriveNet messages. EUCARIS and EU Hub together make up the ProDriveNet network.
MCI	Multi Country Inquiry. Synonym to “broadcasting”. A request message, coming from one EUCARIS MS, is sent to multiple MS. The recipients are either determined by EUCARIS (All MS that support ProDriveNet), or by the (user of the) client application, by submitting a list of MS.
MS	Member State.
NCP	National Contact Point, a designated competent authority of a Member State for the cross-border exchange of ProDriveNet data.
(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. VH Notification architecture

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

3. EUCARIS VH Notification services

3.1 Available web services

The following EUCARIS services are available for VH notification:

- VH-Reregistration – This service handles the message *VHNotificationReregistration*
- VH-Destruction – This service handles the message *VHNotificationOfDestruction*

It is just a notification message, no response is sent. An acknowledgement is sent which is default for asynch communication.

The *VH notification* services are described in Chapter 4, the messages specifications are given in section 4.4.

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

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

4. VH notification

4.1 Goal

The VHNotificationReregistration message is used to exchange information from one country to another involved in respectively the import and the export of a vehicle.

A VHNotificationOfDestruction is sent when a vehicle is scrapped in another Eucaris Member State than the Member State where the vehicle is registered at the moment of destruction. The Member State in which destruction takes place, notifies the Member State of registration of this event.

4.2 Technical service description

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

The characteristics of the VH notification message service is the following:

MessageService Group	MessageService	Message category	Message 'type' (message name)	PriorityCode	Number of inquiries (messages) in one envelope
VehicleRegistration	VH-Reregistration	Notification	VHNotificationReregistration	2 ('Asynchronous')	1
VehicleRegistration	VH-Destruction	Notification	VHNotificationOfDestruction	2 ('Asynchronous')	1

4.3 Requesting side requirements

4.3.1 Flow Description

The VH notification is the last step in the process, it only to inform that the re-registration or destruction of the vehicle is accepted or rejected.

It is a notification only message which is described in detail in [DOC-3].

4.3.2 Population of the envelope

VH notification 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 VH-Reregistration or VH-Destruction 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	One specific Member State – coding system ISO 3166-1 alpha-2
3	SenderMemberStateCode	1	Enum	The Member State the notifying 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.
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 ‘VH-Reregistration’, ‘VH-Destruction’
4	ServiceExecutionReasonCode	1	Enum	Denotes the business reason why the request is sent. Possible values 4 (‘Inform’) For maintenance purpose the following reason can be used: 3(‘Availability Monitoring’) 5(‘Test’)
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.
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 notification. Possible values 0: not specified 1: Registration Office

NestingLevel	Item	Occ	Type	Remarks
4	InitiatingOrganisationName	1	Text	The (official) name of the organisation that is responsible for sending the notification.
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 notification.
4	InitiatingDateTime	1	DT	Date and time of creation.
4	PriorityCode	1	Enum	Denotes the type of processing expected by the client application. Possible values: 2 (Asynchronous) Other priority codes cannot be used in this message service.
4	SupportedResponseVersion	0	Enum	
4	RecipientMemberStates	0		Is not used.
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 'VHNotificationReregistration', 'VHNotificationOfDestruction'
4	(version)	1	Enum	Must be a known version. Refer to 4.4.1 for known versions.
4	Message	1		Only one occurrence allowed for this message service.
5	MessageId	0		Is assigned by EUCARIS. 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. If not provided a unique number will be given.
5	ReferenceMessageId	0		Not applicable.
5	ReferenceExternalMessageId	0		Not applicable.
5	ReplyingMemberStateCode	0		Not applicable.
5	Content	1		In this node, provide the actual message.

4.4 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 4.3.2 (client application).

4.4.1 Message versions

Available versions for the request message = *VHNotificationReregistration*: 1.0

Available versions for the request message = *VHNotificationOfDestruction*: 1.0

4.4.2 VHNotificationReregistration

Nesting Level	Item	Occ	Type	Remarks
1	<i>VHNotificationReregistration</i>	1		
2	<i>VehAccept</i>	0-1	Choice	Either vehAccept or VehReject should be selected
3	VehCountryReq	1	Enum	
3	<i>VehRegistrationNumberOld</i>	1		
4	VehRegistrationNumberPart1	1	Text	
4	VehRegistrationNumberPart2	0-1	Text	
3	<i>VehRegistrationNumber</i>	1		
4	VehRegistrationNumberPart1	1	Text	
4	VehRegistrationNumberPart2	0-1	Text	
3	VehIdentificationNumber	1	Text	
3	VehMake	0-1	Text	
3	<i>VehRegistrationCertificateIDOld</i>	1		
4	VehRegistrationCertificateDate	1	Date	
4	VehRegistrationCertificateId	0-1	Text	
3	<i>VehAcceptRemarks</i>	0-1		
4	<i>VehAcceptRemark</i>	1-n		
5	VehAcceptRemarkCode	1	Enum	
3	<i>VehAcceptDocRemarks</i>	0-1		
4	<i>VehAcceptDocRemark</i>	1-n		
5	VehAcceptDocRemarkCode	1	Enum	
3	<i>VehAcceptNumberPlatesOld</i>	0-1		
4	VehAcceptNumberPlatesRemarkCode	1	Enum	
3	VehAcceptComments	0-1	Text	
2	<i>VehReject</i>	0-1	Choice	Or vehAccept or VehReject should be selected
3	VehCountryReq	1	Enum	
3	<i>VehRegistrationNumberOld</i>	0-1		
4	VehRegistrationNumberPart1	1	Text	
4	VehRegistrationNumberPart2	0-1	Text	
3	VehIdentificationNumber	1	Text	
3	VehMake	0-1	Text	
3	<i>VehRejectReasons</i>	1		
4	<i>VehRejectReason</i>	1-n		
5	VehRejectReasonCode	1	Enum	
3	VehRejectComments	1	Text	

Nesting Level	Item	Occ	Type	Remarks
3	<i>ECopyAttachments</i>	0-1		
4	<i>ECopyAttachment</i>	1-n		
5	AttachmentFileType	1	Enum	
5	AttachmentFileName	1	Text	
5	AttachmentFileContent	1	Base64	

4.4.3 VHNotificationOfDestruction

Level	Item	Occ	Type	Remarks
1	VHNotificationOfDestruction	1		
2	VehIdentificationNumber	1	Text	
2	<i>VehRegistrationNumber</i>	0-1		
3	VehRegistrationNumberPart1	1	Text	
3	VehRegistrationNumberPart2	0-1	Text	
2	VehMake	0-1	Text	
2	VehCommercialName	0-1	Text	
2	VehDestructionDate	1	Date	
2	VehDestructionCompanyName	0-1	Text	
2	VehDestructionReasonCode	1	Enum	
2	<i>VehDocumentIdentifications</i>	0-1		Todo check naming
3	<i>VehDocumentIdentification</i>	1-n		Todo check naming
4	VehDocumentId	1	Text	
2	VehRegDocumentStatusCode	1	Enum	
2	VehLicensePlateStatusCode	1	Enum	
2	VehDestructionComments	0-1	Text	

5. 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 8.1)

- **Type**

The data type, which only applies to XML elements and not to XML nodes. See also 8.1.

- **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
AttachmentFileContent	Base64		A certain document associated with a reject notification, such as a scanned copy of the original vehicle documents.
AttachmentFileName	Text	1-255	The name of an attached file.
AttachmentFileType	Enum		Denotes the MIME type of the attached file. This information facilitates opening and presenting the attachment in a browser. Possible values: .csv .doc .docx .gif .htm .html .jpeg .jpg .mht .pdf .ppt .pptx .rar .rtf .tiff .txt .xls .xlsx .xml
Body			The body contains all the nodes and elements of the actual request, reply or message.
VehAccept			The VehAccept node contains all the information regarding a new registration of a vehicle after being imported in a country.
VehAcceptComments	Text	1-4000	This element contains the comments made on an accept notification. Free format text.

Item	Type	Len	Description
VehAcceptDocRemark			This node contains one remark regarding the original documents associated with a new registration of a vehicle after being imported in a country.
VehAcceptDocRemarkCode	Enum		Contains the code related to the remark regarding the original documents associated with a new vehicle registration.
VehAcceptDocRemarks			This node contains all remarks regarding the original documents associated with a new registration of a vehicle after being imported.
VehAcceptNumberPlatesOld			This node contains a remark denoting what has been done with the old number plates.
VehAcceptNumberPlatesRemarkCode	Enum		Code denoting what has happened to the old number plates: 1 = Withdrawn 2 = Destroyed 3 = Number plates were not shown 4 = Stamps removed 99 = Unknown
VehAcceptRemark			This node contains one remark regarding a new registration of a vehicle after being imported.
VehAcceptRemarkCode	Enum		Contains the code related to the remark regarding a new registration.
VehAcceptRemarks			This node contains all remarks regarding a new registration of a vehicle after being imported.
VehCommercialName	Text	1-50	Document abbreviation [doc-1]: D.3 The commercial description / type of the vehicle. For example Focus, Astra, Megane.
VehCountryReq	Enum	1-5	Country to which the request is directed and if desired reply is expected from. If case of a multi-country inquiry, applicable in case of a search on chassis number, fill in VehCountryReq = MCI. See for notation RecipientMemberStateCode.
VehDestructionComments	Text	1-4000	Room for additional comments about the destruction of the vehicle
VehDestructionCompanyName	Text	1-50	Name of the company responsible for the destruction of the vehicle.
VehDestructionDate	Date	8	Date at which destruction of the vehicle was carried out.
VehDestructionReason			In this node, the reason for destruction of the vehicle is mentioned.
VehDestructionReasonCode	Int	1	Reason why destruction of the vehicle was necessary. 1 = Road accident 2 = Found damaged, e.g. by fire or explosion, found underwater. 3 = Not roadworthy 9 = Not specified.
VehDocumentDate	Date	8	First day that the vehicle has been registered in the member state.
VehDocumentId	Text	1-15	Document abbreviation [doc-1]: none The unique document ID as printed on the vehicle documents.

Item	Type	Len	Description
VehRegistrationCertificateID(old)			This node list the old certificate information
VehRegistrationCertificateDate	Date		Date of the registration of certificate
VehRegistrationCertificateID	Text	1-15	Registration document number of part II or of the equivalent certificate delivered by the Member State of origin (for countries where the registration document consists of two parts) or of part I (for countries of origin with only one part registration document).
VehIdentificationNumber	Text	1-25	Document abbreviation [doc-1]: E The identification number (VIN) of the vehicle as registered by the administration.
VehLicensePlateStatus			In this node, the member state of destruction informs the member state of registration about the status of the license plates
VehLicensePlateStatusCode	Int	1	Status of the vehicle registration document(s) 1 = Destroyed 2 = Sent to MS Registration 3 = In possession MS Destruction (i.e. registration authority) 4 = In possession destruction company 5 = In possession police 6 = Stolen 7 = Lost (e.g. destroyed in fire, explosion etc.) 9 = Unknown
VehMake	Text	1-50	Document abbreviation [doc-1]: D.1 The make of the car. For example Ford, Opel, Renault etc.
VehRegDocumentStatus			In this node, the member state of destruction informs the member state of registration about the status of the vehicle registration document(s)
VehRegDocumentStatusCode	Int	1	Status of the vehicle registration document(s) 1 = Sent to MS Registration 2 = In possession MS Destruction (i.e. registration authority) 3 = In possession destruction company 4 = In possession police 5 = Stolen 6 = Lost (e.g. destroyed in fire, explosion etc.) 9 = Unknown
VehRegistrationNumber	Text		Document abbreviation [doc-1]: A This node contains the registration number (licence number) of the vehicle in the notation as registered by the administration.
VehRegistrationNumberOld	Text		Document abbreviation [doc-1]: A This node contains a former registration number (licence number) of the vehicle in the notation as registered by the former administration.
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.

Item	Type	Len	Description
VehReject			The VehReject node contains all the information regarding the rejection of a registration of a vehicle, which is in the middle of an import procedure.
<i>EcopytAttachments</i>			This node contains 1 or more attachments, i.e. documents that explain or illustrate why a vehicle was rejected for registration.
<i>EcopytAttachment</i>			This node contains 1 specific attachment, i.e. a document explaining why a vehicle was rejected for registration.
VehRejectComments	Text	1-4000	This node contains the comments to a reject notification. Free format text field.
VehRejectReason			This node contains one reason regarding the rejection of a registration of a vehicle, which is in the middle of an import procedure.
VehRejectReasonCode	Int	1-2	Contains the code related to the reason regarding the rejection of a registration.
VehRejectReasons			This node contains all reasons regarding the rejection of a registration of a vehicle, which is in the middle of an import procedure.
VHNotificationReregistration			This node contains the complete request for a Vehicle Notification.
VHNotificationOfDestruction			The message to send a notification about vehicle destruction

6. Annex B – 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.

For a detailed description on validations, refer to [DOC-3].

7. Annex C – Country codes

Refer to [DOC-2], Annex B, for country code information.

8. Annex D – XML message specs conventions

8.1 Used conventions

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

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

8.1.1 Nesting level

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

8.1.2 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.

8.1.3 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.

8.1.4 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).

8.1.5 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', or as a date with a time zone denomination, i.e. UTC 'CCYY-MM-DDZ' or local time with the offset to UTC as 'CCYY-MM-DD±nn.nn' .
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

8.1.6 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.