



Member State Test Procedure Actual Vehicle Information (AVI)

EUCARIS Operations (EUCOP)

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Name	function / role
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AVI EUCARIS Member States	Member states using EUCARIS for AVI Exchange

Document references

No.	Title	Author	Version / status / date
DOC-1	EUCARIS XML Message Specification Actual Vehicle Information (AVI).doc	Sjaak Kempe	0.29/Draft/05-12-2018
DOC-2	EUCARIS AVI data overview.xls	EUCARIS Operations	1.0/final/18-02-2019
DOC-3	EUCARIS AVI test data MS.xls	EUCARIS Operations	1.0/final/18-02-2019
DOC-4	EUCARIS test data EUCOP	EUCARIS Operations	4.2/final/18-02-2019

Abbreviations

Abbreviation	Description	Explanation
EUCARIS	European Car and Driving Licence Information System	EUCARIS is the European CAR and driving license Information System. EUCARIS is a unique system that provides opportunities to countries to share their car and driving licence registration information, helping to fight car theft and registration fraud.
AVI	Actual Vehicle Information	Information about a vehicle that is available in the Member State of Registration, at the moment the information is requested.
XML	Extensible Mark-up Language	Language for message exchange
MS	Member State	In this document MS refers to Member States participating in AVI exchange
EUCOP	EUCARIS Operations	Responsible for executing test activities for EUCARIS application and member state tests

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1. Introduction

Before an AVI member state (MS) using EUCARIS can connect to other AVI member states using EUCARIS, the MS has to pass an acceptance test executed in cooperation with EUCARIS Operations (EUCOP). An acceptance test for AVI is not needed for MS's that are connected to VHInfo. These MS's have already performed an acceptance test for VHInfo and for this reason an AVI acceptance test is not needed anymore.

This document describes the activities and contents of the acceptance test procedure of EUCOP. During this acceptance test the exchange of AVI messages between EUCARIS countries is tested.

During the acceptance test the following email address will be used:

Eucaris2help@rdw.nl

2. Prerequisites

- The MS has informed eucaris2help (eucaris2help@rdw.nl) that an acceptance test for AVI can be started. Please inform eucaris2help at least two weeks in advance. When informing us, please mention whether you will be using the default EUCARIS WebClient or your own customized client application(s).
- A connection has been established between EUCOP and the MS. This item is fulfilled once it is possible to send and receive AVI requests.
- The MS has received, filled out and returned the following document:
 - EUCARIS AVI Data Overview [DOC-2]
 - EUCARIS AVI test data MS [DOC-3]For more information on this document, see chapter 3.
- The data mentioned in the above document 'EUCARIS AVI Test Data' is available in the local databases on the test/acceptance environment of the MS.
- The MS has successfully completed the internal tests of the local AVI implementation.
- The MS is not using VHInfo. If an MS is using VHInfo, an acceptance test for VHInfo is already performed and for this reason an AVI acceptance test is not needed anymore.

3. Test Data

In order to be able to execute tests, there should be test data available in both the MS and EUCOP.

3.1. Test Data EUCOP

In order to have a standard and flexible set of test data necessary to perform the acceptance test of all MS, EUCOP will make use of stubs. These stubs are tested and checked conform the necessary specifications. When a MS sends a request towards EUCOP, the response will come from the stub messages.

In document 'EUCARIS test data EUCOP' [DOC-4] there is an overview of all the stub data available in country EUCOP. This document does not only include data sets of AVI but also for all other EUCARIS treaties. As this document contains test data of all EUCARIS treaties, this document is not included in the AVI Test Pack. The document can be found on www.eucaris.net.

3.2. Test Data MS

While EUCOP uses stubs, it is expected from all MS to use real backend services with production like data during the acceptance test procedure.

Prior to the acceptance procedure the MS supplies information on what data EUCOP can use during the tests via document 'EUCARIS AVI Test Data' [DOC-3].

In this document there is a list of test scenarios that EUCOP would like to be executed. For each of the scenarios, the MS is able to indicate if the scenario is applicable. If a scenario is applicable, the MS will have to supply test data for that scenario. If a scenario is not applicable, please mention the reason for this. It is important to mention that this test data should under no circumstance, in respect to privacy laws, be a copy of production environment data.

The MS is also required to fill in document 'EUCARIS AVI Data Overview' [DOC-2]. This document will help EUCOP and other MS to better understand the AVI implementation of the MS. This information may result in extra test scenarios or it may result in skipping test scenarios.

4. AVI Requests

This chapter describes what services will be tested and what checks will be performed concerning request messages sent by the MS.

4.1. Default EUCARIS webclient

The default EUCARIS webclient has been thoroughly tested before being released to other MS. Therefore no extensive checks concerning the contents/structure of these request messages will be performed if the MS uses the default EUCARIS webclient.

This check will consist of the MS sending EUCOP at least one request message per AVI service, checking whether EUCOP received these messages and checking whether the MS received the expected responses. If this is the case, this test can be considered as successfully completed.

The MS will be asked to send the following messages using the EUCARIS webclient:

EUCARIS AVI webclient menu item	Resulting message	Expected result
Search on Vehicle Identification Number	AVIReqByChassis	EUCOP receives the requests, MS receives a valid response
Search on Licence Plate Number	AVIReqByRegNum	EUCOP receives the requests, MS receives a valid response
Search on Certificate Number	AVIReqByVehRegistrationCertId	EUCOP receives the requests, MS receives a valid response

4.2. Customized webclient

This chapter is only applicable if the MS has developed, or is planning to develop a customized (web)client for AVI. The request messages that are generated by the customized (web)client(s) developed by the MS will have to be tested in more detail. In the table below are listed the requests that have to be sent. Please inform EUCOP when the MS has sent these messages to the EUCOP acceptance environment and inform EUCOP about the time (in UTC) when this was done.

Message	Characteristics
AVIReqByChassis	MileageInfoRequested = true
AVIReqByChassis	MileageInfoRequested = false
AVIReqByRegNum	MileageInfoRequested = true
AVIReqByRegNum	MileageInfoRequested = false
AVIReqByVehRegistrationCertId	MileageInfoRequested = true
AVIReqByVehRegistrationCertId	MileageInfoRequested = false

If the MS customized client does not support all of the characteristics described above, please inform EUCOP about it. EUCOP will take this into account during this part of the acceptance test.

When the MS has finished sending these messages to the EUCOP acceptance environment, EUCOP will look up these messages in the servicelog table and analyse them both on content and structure based on the XML specification document [DOC-1]. If all request messages prove to be in accordance with these specifications, this part of the acceptance test can be considered completed successfully. If more than one customized client has been developed, this test has to be executed for all developed customized clients.

If the MS will develop one or more other customized clients after the MS has completed this acceptance test, the MS is obliged to report this to EUCOP, after which the tests described in this section (4.2) will have to be

executed for the new customized client before the new customized (web)client can be connected to the EUCARIS production environment.

4.1 AVI Responses

This part of the acceptance test focusses on the response messages (AVIResponse) generated by the MS. The contents of these response messages will reflect the information stored in the AVI databases of the MS. During this test EUCARIS Operations will make inquiries to the acceptance environment of the MS. The returned response messages will be analysed both on content and structure. This analysis will be based on the XML specification document [DOC-1] and the data overview returned by the MS [DOC-2].

The inquiries that EUCARIS Operations will make on the MS's AVI databases will be based upon the contents of the test data sheet the MS supplied to EUCARIS Operations before the start of the acceptance test [DOC-3].

In this data sheet the MS can fill out which described scenarios are applicable for the MS. For all applicable scenarios the MS has to supply EUCARIS Operations with search criteria to perform the test cases for these scenarios. The test data inserted in the MS's local databases should be representative for the data that will be returned by the MS's production environment.

5 Exit Criteria

The MS has passed the acceptance tests with EUCARIS Operations if the exit criteria below have been met.

- All tests described in Chapter 4, concerning sending request messages by the default webclient and, if applicable, customized (web)clients, have been completed successfully.
- All tests described in Chapter 5, concerning sending response messages, have been completed successfully.

A test can be considered completed successfully when all required test cases have been executed and no blocking issues are observed during the last test round.

When the acceptance test with EUCOP is completed, EUCOP will write a Test Summary Report. This report will be sent to the MS.