



CBE Member State Test Procedure

EUCARIS Operations (EUCOP)

Author:	Alfons Mucaj	Status:	Final
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Herman Grooters	Operational Manager EUCARIS
CBE EUCARIS Member States	Member states using EUCARIS for CBE Exchange

Document references

No.	Title	Author	Version / status / date
DOC-1	EUCARIS XML Message Specification Cross Border Exchange.doc	Sjaak Kempe	2.0.1/final/30-01-2015
DOC-2	EUCARIS CBE data overview.xls	EUCOP	1.0/final/28-08-2013
DOC-3	EUCARIS Start Up Document.doc	EUCOP	7.0/final/17-09-2012
DOC-4	EUCARIS CBE test data MS.xls	EUCOP	1.0/final/28-08-2013
DOC-5	EUCARIS Test Data EUCOP.xls	EUCOP	3.6/final/
DOC-6	EUCARIS – Installation and Operation Manual	EUCOP	7.0/final/17-04-2012
DOC-7	Directive 2011/82/EU of the European Parliament and of the Council, facilitating the cross-border exchange of information on road safety related traffic offences.		25-10-2011

Abbreviations

Abbreviation	Description	Explanation
EUCOP	EUCARIS Operations	Responsible for executing test activities for EUCARIS application and member state tests
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.
CBE	Cross Border Exchange	Information exchange in the context of [DOC-7], i.e exchange of information on road safety related traffic offences.
XML	Extensible Mark-up Language	Language for message exchange
XSD	XML Schema Definition	Definition to which an XML document must comply
MOTD	Message of the Day	Used to exchange all kinds of information from one country to another which can be important for the end user of the EUCARIS application
MS	Member State	In this document MS refers to Member States participating in CBE exchange

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1. Introduction

Before a CBE member state using EUCARIS can connect to other CBE member states using EUCARIS, the member state has to pass an acceptance test executed in cooperation with EUCARIS Operations (EUCOP).

This document describes the activities and contents of the acceptance test. In chapter 2 it is described which prerequisites have to be fulfilled before an acceptance test with the Netherlands can start. In chapter 3 it is outlined that request messages and response messages from the member state to EUCOP should be in conformance with the EUCARIS XML Message Specifications CBE [DOC-1]. In chapter 4 it is described how the CBE responses generated by the to be accepted country will be checked, based on the XML specifications [DOC-1] and the data overview [DOC-2]. During the acceptance test it will also be checked whether the gathering of statistics functions correctly (chapter 5) and whether it is possible to send and receive Messages Of The Day (chapter 6).

Lastly, chapter 7 outlines what conditions have to be met to complete the acceptance test successfully.

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 will send a request toward EUCOP, the response will come from the stub messages. While EUCOP uses stubs, it is expected from all MS to use the legacy services during the acceptance test procedure. The stub messages data contents can be found included in the test pack (EUCARIS Test Data EUCOP [DOC-5]).

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

Eucaris2help@rdw.nl

2. Prerequisites

- The MS requested, received and installed the EucarisTest certificate. For more information please refer to the EUCARIS – Start Up Document [DOC-3].
- The MS has informed eucaris2help (eucaris2help@rdw.nl) that an acceptance test for CBE can be started. Please inform us at least two weeks in advance.
- A connection has been established between EUCOP and the MS. This item is fulfilled once it is possible to send and receive CBE requests.
- The MS has received, filled out and returned the following documents:
 - EUCARIS CBE Data Overview [DOC-2]
 - EUCARIS CBE Test Data MS [DOC-4]
 - Document 'Additional questions CBE.docx'
- The data mentioned in the above document 'EUCARIS CBE Test Data MS' 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 CBE implementation.

3. CBE Requests

This chapter describes the checks that will be performed concerning request messages sent by the MS. In chapter 3.1 are described the checks that will be done on the request messages sent by the default EUCARIS webclient. In chapter 3.2 are described the checks that will be done for request messages that are generated by customized CBE (web)clients. Chapter 3.2 can be skipped if your Member State has not and/or will not develop customized (web)clients for CBE.

3.1. 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. This check will consist of the MS sending EUCOP a request message and checking whether EUCOP received this message and whether the MS received the expected response. If this is the case, this test can be considered completed successfully. Since the EUCARIS webclient does not offer functionality to send Multiple CBE (mCBE) requests, these types of requests are out of scope for this part of the MS test.

During the test you can check whether you have received the expected response by using the Search Logging functionality (Logviewer) available in the EUCARIS management client. For more information concerning the Logviewer see the Installation and Operation Manual [DOC-6].

EUCOP requests from the MS to send the following message using the EUCARIS webclient:

EUCARIS CBE webclient menu item	Resulting message	Expected response
Search By License Number	CBEOwnerHolderByRegNumAndDate	CBEVehOwnerHolderResponse

3.2. Customized webclient

This chapter is only applicable if you have developed, or are planning to develop a customized (web)client for CBE. The request messages that are generated by the customized CBE (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
CBEOwnerHolderByRegNumAndDate	Request a Vehicle owner-holder using data from DOC-5 (Test data EUCOP), filling all mandatory and optional search items
CBEOwnerHolderByRegNumAndDate	Do not include optional elements VehRegistrationNumberPart2Req and VehCountryCodeRegReq.
CBEMultipleOHByRegNumAndDate	Request a Vehicle owner-holder using data from DOC-5 (Test data EUCOP), filling all mandatory and optional search items Number of elements InformationRequest > 1
CBEMultipleOHByRegNumAndDate	Do not include optional elements VehRegistrationNumberPart2Req, VehCountryCodeRegReq and CaseHandlingOrganisationTypeCode

If the MS customized client does not support all of the message/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 section (3.2) 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. CBE Responses

4.1. Single case Response

This part of the acceptance test focusses on the response messages (CBEVehOwnerHolderResponse) generated by the MS. The contents of these response messages will reflect the information stored in the CBE databases of the MS. During this test EUCOP will make inquiries to the MS acceptance environment. 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 EUCOP will make on the MS CBE databases will be based upon the contents of the test data sheet the MS has supplied to EUCOP before the start of the acceptance test [DOC-4]. In this data sheet the MS can fill out which described scenarios are applicable for the MS. For all applicable scenarios EUCOP expects the MS to provide search criteria to perform the test cases for these scenarios. The test data inserted in the MS local CBE databases should be representative for the data that will be returned by the MS production environment.

4.2. Multiple case Response

This part of the acceptance test focusses on the response messages (CBEMultipleVehOwnerHolderResponse) generated by the MS. The contents of these response messages will reflect the information stored in the CBE databases of the MS. During this test EUCOP will make inquiries to the MS acceptance environment. 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 EUCOP will make on the MS CBE databases will be based upon the contents of the test data sheet the MS has supplied to EUCOP before the start of the acceptance test [DOC-4]. In this data sheet the MS can fill out which described scenarios are applicable for the MS. For all applicable scenarios EUCOP expects the MS to provide search criteria to perform the test cases for these scenarios. The test data inserted in the MS local CBE databases should be representative for the data that will be returned by the MS production environment.

5. Statistics

<<This functionality is not yet fully implemented in the most recent CBE EUCARIS release and will therefore currently not be part of the acceptance procedure yet. However, when the functionality is available EUCOP wants to verify the functioning of the statistic gathering on the MS production environment. >>

Not yet applicable

The EUCARIS application will gather statistics concerning the CBE messages sent and received by all EUCARIS MS. These statistics are accumulated locally in all MS using EUCARIS for exchanging CBE messages.

During this part of the acceptance test EUCOP will verify that the statistics are indeed gathered and stored in files on the MS test/acceptance server (and send to EUCOP). Because the statistic component is already thoroughly tested during the development of the EUCARIS application, checking whether the numbers calculated during the statistics gathering are correct is out of scope for the acceptance test.

This part is successfully concluded if it is verified that the gathering of statistics in the MS is functioning.

6. Message Of The Day

During the acceptance test *EUCOP* will ask the MS to send a Message Of the Day to *EUCOP*. Please select the start date and end date in such a way that the MOTD will be displayed for a couple of days. When such action is done, please inform *EUCOP* in order to check and confirm that the MS Message of the Day has been received.

EUCOP will also send a MOTD to the MS and inform them when the MOTD has been sent. *EUCOP* will ask the MS to also confirm receiving the *EUCOP* MOTD.

This test is successful once the MS can confirm receiving the *EUCOP* MOTD and the MS MOTD has also been received by *EUCOP*.

7. Exit Criteria

The MS is accepted to start exchanging CBE data with other CBE MS using EUCARIS if the exit criteria below have been met.

- All tests described in Chapter 3, concerning sending request messages, by the default webclient and, if applicable, customized (web)clients, have been completed successfully.
- All tests described in Chapter 4, concerning sending response messages, have been completed successfully.
- *<Currently not applicable> All tests described in Chapter 5, concerning the gathering of CBE statistics, have been completed successfully.*
- All tests described in Chapter 6, concerning sending and receiving Message Of The Day 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.

Issues found during the acceptance test will be communicated per mail.