



DLMS/COSEM conformance test tool (CTT) – Rules for availability and use

Version 2.0

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1 Introduction

The purpose of this document is to describe the rules concerning the availability and use of the DLMS/COSEM Conformance Test Tool (CTT).

This document cancels and replaces Clause 7 of the DLMS UA Yellow book DLMS UA 1001-1- Ed. 2:2002, *Conformance test process* and the document “*Third party testing rules*”.

2 Brief description

The CTT is the key element of the conformance certification scheme provided by the DLMS UA for its members. It serves for verifying that the specification has been correctly implemented in DLMS/COSEM Servers, i.e. meters.

The CTT runs on a PC serving as a test Client. It allows viewing the test scripts, to configure the test environment and to select and run the various tests. It generates a test report, a log and a line traffic file, which can be saved for further use.

The specification of the CTT is described in the DLMS UA Yellow Book 1001-1, *Conformance test process*.

A special add-on, called “log module” has also been developed. It has the same functions as the CTT and in addition, it decodes all messages (PDU-s) exchanged with the Implementation Under Test (IUT) and reports these in the log file in a human readable form.

3 Availability

The DLMS UA calls the attention that Intellectual Property Rights (IPR) apply on the CTT. It has been assured by the owner of the IPR rights that the license can be sold to any member of the DLMS UA without any restrictions.

The license for the “log module” can be sold to members of the DLMS UA upon the agreement of the owner of the IPR.

Based on an agreement made between the DLMS UA and EuroDCS, <http://www.eurodcs.de/>, a member of the DLMS UA, the CTT is commercialized by EuroDCS under the following conditions:

- The license fee of the CTT is € 22,500 (plus any taxes applicable) per user license;
- The license fee of the “log module” is an additional €20,000 (plus any taxes applicable);
- The above prices are valid from 1st January 2006. The price is reviewed each year;
- The license is valid for a single site of the purchaser, and it can be run on not more than 3 PC-s;
- The CTT and the licence is delivered by EuroDCS either on a data carrier or it is made downloadable from a dedicated website of EuroDCS. Upgrades, including the object definitions – the List of standardised OBIS codes - can be also downloaded from this site. The updates are generally free of charge;
- EuroDCS maintains an up-to-date register of license owners and makes this available for the DLMS UA;
- EuroDCS provides technical support for license owners.

4 Use of the CTT

4.1 Performing the test

The configuration of the IUT for the test is the responsibility of the manufacturer. To facilitate system integration, it is advisable that the test is performed on a configuration of the IUT typical for the intended application(s) so that all implemented features of the COSEM model and the DLMS based protocol stack are tested.

The CTT can be used during the development phase for validating the implementation. For this purpose, one or more tests can be selected and run.

To obtain a Certificate of DLMS/COSEM compliance (“Certificate”), all tests have to be selected and passed.

4.2 Self testing and Third party testing

The test can be performed by the license owner (“Test laboratory”) on its own implementations (“Self testing”) or on an implementation of a third party (“Third party testing”).

Any license owner is allowed perform Third party testing. In this case, a Registration fee applies. See also Clause 4.3.4.

The DLMS UA shall not be involved in any agreement between a test house and a third party.

4.3 The DLMS/COSEM compliant Certificate

4.3.1 Exclusivity

At this time and until such time when a different statement is made the CTT is the only tool, which can be used for obtaining a Certificate from the DLMS UA.

Certificates can be issued only for members of the DLMS UA.

The DLMS UA maintains an exclusive right to issue Certificates.

4.3.2 Submission and verification of the test report

The test report generated by the CTT shall be submitted to the DLMS UA. The DLMS UA checks the results and the authenticity of the test report. If it is OK, it issues the Certificate and publishes it on its website.

The DLMS UA does not publish the test reports; this can be obtained either from the test house or from the manufacturer.

4.3.3 The content of the Certificate

The Certificate includes the following information, taken from the test report:

- The identification of the IUT;
- The identification of the Manufacturer;
- The name of the Test laboratory;
- The date of the test;
- The version of the CTT and the List of standardised OBIS codes.

4.3.4 Registration fee

In case of Self testing, the DLMS UA issues the Certificate free of charge.

In case of Third party testing, a registration fee is payable (exceptions see next paragraph). The registration fee is 10% of the license price of the CTT, i.e. in 2006, it is €2,250 (plus any taxes applicable). The invoice shall be issued by and it is payable to EuroDCS. The Certificate is issued by the DLMS UA upon confirmation of the payment by EuroDCS to the DLMS UA.

Exceptions: The first item per manufacturer can be tested without registration fee. Item 2 to 11 are subjects to a registration fee as stated in the paragraph above. The following items to be tested from the same manufacturer can again be tested without registration fee.

4.3.5 Validity of the Certificate

The Certificate is valid for the device identified in the test report. If changes affecting the implementation of DLMS/COSEM are made on the hardware or firmware, it is advised to perform a new test and to obtain a new Certificate.

4.4 Disclaimer

The DLMS UA took all possible effort to ensure that the CTT is in line with the DLMS/COSEM specification and that it provides a reasonable depth of testing. The Certificate can be used as a proof that on a given version and configuration all tests have passed.

The DLMS shall not be involved in any eventual disputes between a meter provider and purchaser. Upon request of the parties, it may provide advice.

5 Support by the DLMS UA

The DLMS UA provides the following support services:

- Verification of test reports and issuing Certificates;
- Archiving the test reports;
- Maintenance of the list of DLMS/COSEM compliant equipment at www.dlms.com;
- Training upon special request or as part of DLMS/COSEM courses;
- Answering questions concerning the CTT submitted directly or via EuroDCS;
- Maintaining the COSEM object definition (OBIS list) file.