

KEMA DLMS Test Client

Introduction

The KEMA DLMS Test Client is a light-weight, easy-to-use tool to perform basic testing of a DLMS implementation. The tool is suitable for verification of the correctness of all implemented COSEM objects and their attributes.

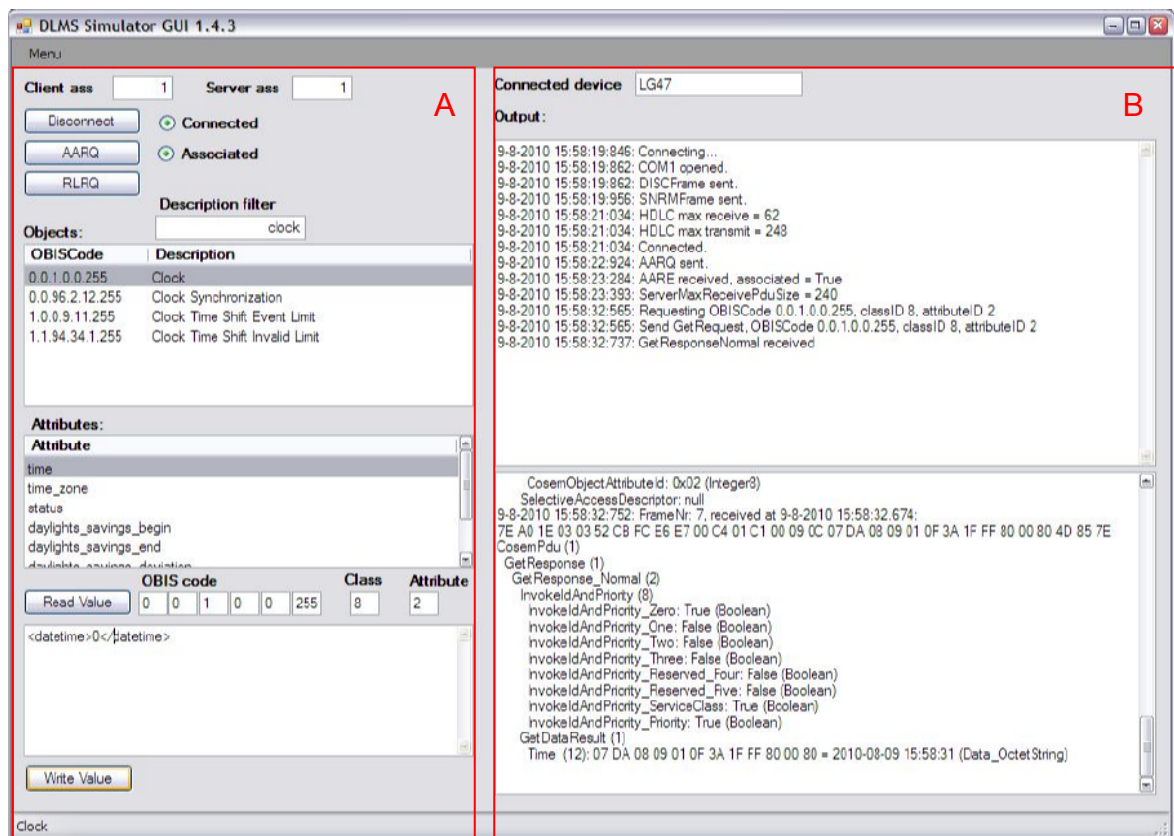
Features of the KEMA DLMS Test Client

KEMA has developed this tool to enable you to test DLMS implementations in a convenient and easy way.

The Test Client has the following features:

Clear Graphical User Interface

The graphical user interface presents an overview of the COSEM object that is selected for testing.



Pane A is the control part of the GUI. From here, the following actions can be started:

- Establish or release any specified association with the DUT.
- Searching for a specific OBIS code using the 'Description Filter'.
- Reading any attribute available in any COSEM object that is implemented in the meter.

- Writing to any attribute available in any COSEM object that is implemented in the meter. XML support allows you to write complex structures to the DUT, like activity calendars.

Pane B is the result part of the GUI. This part of the GUI logs the communication with the DUT that resulted from the actions that were triggered in the control part:

- In the upper sub pane, actions and their time stamps are traced on a high level.
- In the lower sub pane, detailed logging for these actions down to byte level is provided.

The GUI of the Test Client gives a complete overview of the test results at a glance!

Reference table with OBIS Codes

In order to be able to verify the correctness of the COSEM objects that are read from the DUT, the Test Client must be provided with a reference table with OBIS codes. This reference table lists the OBIS codes that are allowed in the tested implementation and the format of the object attributes.

A reference table can for example be a country specific Companion Specification to which the DUT should comply.

Supported communication profiles

The Test Client supports the following communication profiles:

- DLMS over HDLC. This profile is mostly used in combination with an optical head.
- DLMS over TCP/IP.

If the DLMS over TCP/IP profile is used to connect to a PLC node, DLMS-PLC profiles can be tested as well.

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