

No. 10010305-OPE/INC 15-3064

**Issued to:**

UAB "Enilit"  
Veiveriu str. 134 – 221  
LT-46352 Kaunas  
Lithuania

**For the client system:**

Enilit RTU Remote Terminal Unit  
Software version: Enilit RTU CMS version 4.0  
S/N: 0032

The client system has not been shown to be non-conforming to:

## IEC 61850 Edition 2 Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1

Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.0 with TPCL<sup>2</sup> 1.0 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in Enilit RTU (Remote terminal unit), dated November 27, 2015", "Model Implementation Conformance Statement for the IEC 61850 Client Interface in Enilit RTU (Remote terminal unit), dated November 27, 2015" and "TISSUES Implementation Conformance Statement for the IEC 61850 Edition 2 Client Interface in Enilit RTU (Remote terminal unit), dated November 27, 2015" and the extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Client Interface in Enilit RTU (Remote terminal unit) , dated November 27, 2015".

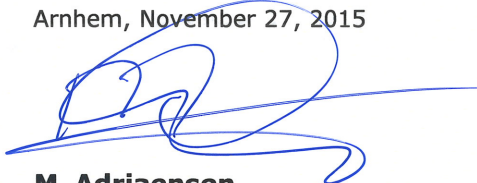
The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases):

1 Basic Exchange (21/24)	9 GOOSE Control Block (2/2)
2 Data Sets (8/10)	12a Direct Control (7/9)
3 Substitution (3/3)	12b SBO Control (9/11)
4 Setting Group Selection (3/3)	12c Enhanced Direct Control (7/9)
4+ Setting Group Definition (4/5)	12d Enhanced SBO Control (9/11)
5 Unbuffered Reporting (21/23)	13 Time Synchronization (3/4)
6 Buffered Reporting (26/28)	14 File Transfer (8/8)
	15 Service Tracking (4/17)

This certificate includes a summary of the test results as carried out at DNV GL in The Netherlands with UniCA 61850 IED simulator 5.29.06 and UniCA 61850 Analyzer 5.29.02. This document has been issued for information purposes only, and the original paper copy of the DNV GL verification report No. 10010305-OPE/INC 15-3063 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by Enilit. The manufacturer's production process has not been assessed. This certificate does not imply that DNV GL has approved any product other than the specimen tested.

Arnhem, November 27, 2015



**M. Adriaensen**  
Head of Department  
Operational Excellence

Issued by:



DNV KEMA is now DNV GL



**R. Schimmel**  
Verification Manager

<sup>1</sup> Level A - Independent test lab with certified ISO 9001 Quality System

<sup>2</sup> TPCL - Test procedures change list

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Applicable Test Procedures from the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.0 with TPCL 1.0

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7, cSrv1, cSrv2, cSrv3, cSrv5, cSrv6, cSrv7, cSrv9, cSrv10, cSrvN1, cSrvN3, cSrvN4, cSrvN5, cSrvN6
2: Data Sets		cDs1, cDs2, cDs3, cDs5, cDs6, cDsN1a, cDsN1b, cDsN1c
3: Substitution	cSub1	cSub2, cSub3
4: Setting Group	cSg2, cSgN1	cSg1
4+: Setting Group Definition	cSg11, cSg14	cSg10, cSg12
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRpN2, cRpN5, cRpN6	cRp1, cRp2, cRp6, cRp7, cRp16, cRp17, cRp18, cRpN1
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr30, cBr31, cBrN2, cBrN5, cBrN6, cBrN20	cBr1, cBr2, cBr6, cBr7, cBr16, cBr17, cBr18, cBr32, cBr33, cBrN1
9: GOOSE Control Block	cGcb1	cGcb2
12a: Direct Control	cCtl4, cCtl5, cDOns1, cDOns2	cCtl1, cCtl2, cCtl3
12b: SBO Control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3	cCtl1, cCtl2, cCtl3, cSBOns4
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	cCtl1, cCtl2, cCtl3
12d: Enhanced SBO Control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	cCtl1, cCtl2, cCtl3, cSBOes4
13: Time Synchronization	cTm1, cTmN1	cTm2
14: File Transfer	cFt1, cFt3, cFtN1	cFt2, cFt4, cFt5, cFtN2, cFtN3
15: Service Tracking		cTrk1, cTrk2, cTrk3, cTrk4