

IEC 61850 Certificate Level A¹

No. 10142640-INC 19-2325

Issued to:

Ing. Punzenberger COPA-DATA GmbH Karolingerstrasse 7B AT-5020 Salzburg Austria

For the client system:

zenon Supervisor/Energy Edition Software version: 8.00 S/N: HMA-0595201

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 1.1.1 with product's protocol, model and technical issue implementation conformance statements and the extra information for testing: "zenon - Additional documentation IEC850 apendixes v.8.00".

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):

- Basic Exchange (21/24)
- 2 Data Sets (6/10)
- 2+ Data Set Definition (5/8)
- Substitution (3/3)
- Setting Group Selection (2/3)
- 4+ Setting Group Definition (5/5)
- Unbuffered Reporting (20/24)
- 6 Buffered Reporting (24/28)

- GOOSE Control Block (2/2)
- 12a Direct Control (7/9)
- 12b SBO Control (9/11)
- 12c Enhanced Direct Control (7/9)
- 12d Enhanced SBO Control (9/11)
- 13 Time Synchronization (4/4)
- 14 File Transfer (6/8)
- 15 Service Tracking (17/17)

This certificate includes a summary of the test results as carried out at DNV GL in The Netherlands with UniCA 61850 IED simulator 6.1.31 and UniCA 61850 Analyzer 5.34.02. This document has been issued for information purposes only, and the archived of the DNV GL verification report No. 10142640-INC 19-2326 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by COPA-DATA. 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, March 22, 2019

Business Leader

Interoperability of Smart Power Systems

Issued by:



DNV KEMA is now DNV GL

¹ Level A - Independent test lab with certified ISO 9001 Quality System

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Applicable Test Procedures from the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.1.1

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7, cSrv1, cSrv2, cSrv3, cSrv4, cSrv5, cSrv6, cSrv7, cSrv9, cSrvN1, cSrvN3, cSrvN4, cSrvN5, cSrvN6
2: Data Sets		cDs1, cDs2, cDs5, cDs6, cDsN1a, cDsN1b
2+: Data Set Definition		cDs10, cDs12, cDs13, cDsN10a, cDsN11
3: Substitution	cSub1, cSub3	cSub2
4: Setting Group	cSg2, cSgN1	
4+: Setting Group Definition	cSg11, cSg14	cSg10, cSg12, cSg13
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp2, cRp6, cRp7, cRp12, cRp13b, cRp16
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr19, cBr30, cBr31, cBrN2, cBrN5, cBrN6	cBr2, cBr6, cBr7, cBr12, cBr13b, cBr16, cBr32, cBr33
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, cTmN2
14: File Transfer	cFt1, cFt3, cFtN1	cFt2, cFt5, cFtN2
15: Service Tracking		cTrk1, cTrk2, cTrk3, cTrk4, cTrk5, cTrk6, cTrk7, cTrk8, cTrk9, cTrk10, cTrk11, cTrk12, cTrk13, cTrk14, cTrk15, cTrk16, cTrk17