



IEC 61850 Certificate Level A¹

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No. 74100458-MOC/INC 11-2634

Issued to:
VAMP Ltd.
P.O. Box 810
FIN-65101 Vaasa, Finland
Visiting address: Yrittäjänkatu 15

For the product:
VAMP50
SW version: 10.87
Serial Number: 003549



The product has not shown to be non-conforming to:
IEC 61850-6, 7-1, 7-2, 7-3, 7-4 and 8-1
Communication networks and systems in substations

The conformance test has been performed according to IEC 61850-10 with product's protocol, model and technical issue implementation conformance statements: "VAMP Embedded IEC 61850 Server Conformance Statement (PICS, MICS, PIXIT and TICS) revision 19-10-2011, version 0.1.4".

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 as defined in the UCA International Users Group Device Test procedures v2.2b):

1 Basic Exchange (16/24)	9b GOOSE Subscribe (10/10)
2 Data Sets (3/6)	12a Direct Control (6/11)
2+ Data Set Definition (23/23)	12b SBO Control (8/14)
5 Unbuffered Reporting (14/18)	12c Enhanced Direct Control (6/13)
6 Buffered Reporting (16/20)	12d Enhanced SBO Control (11/19)
9a GOOSE Publish (10/12)	13 Time Synchronization (4/5)

This Certificate includes a summary of the test results as carried out at InfoTech in Poland with UniCASim 61850 version 3.23.02 with test suite 3.23.00 and UniCA 61850 analyzer 4.24.02. The test is based on the UCA International Users Group Device Test Procedures version 2.2b. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74100458-MOC/INC 11-2633 will prevail.

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

Arnhem, 21 October 2011

M. Adriaansen
Regional Director Management & Operations Consulting

P. Cioci
Test Engineer

1 Level A - Independent Test lab with certified ISO 9000 or ISO 17025 Quality System

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Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.2b

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv8
2: Data Sets	Dset1, Dset10a, DsetN1ae	
2+: Data Set Definition	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9 DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14, DsetN15	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp6, Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br6, Br10, Br11
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop5, Gop6, Gop8, Gop9, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtlN3, CtlN8 DOns1, DOns3	Ctl2, CtlN11
12b: SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, SBOs2	Ctl2, CtlN11
12c: Enhanced Direct Control	CtlN3, CtlN8 DOes2, DOes5	Ctl2, CtlN11
12d: Enhanced SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl2, CtlN11
13: Time sync	Tm1, Tm2, TmN1	Tm3

All configuration files and data model tests have been successfully performed for the product variants using the same hardware and software version: VAMP51, VAMP52 and VAMP55.