IEC 61850 Certificate Level A[1]

No. 74104491 - MOC/INC 13-2740

Issued to:
Schneider Electric – Vamp Oy
Yrittäjänkatu, 15
P.O. Box 810
65101 - Vaasa
Finland

For the server product:
VAMP50
SW version: 10.131
Serial Number: 003549

Issued by: KEMA

The server product has not shown to be non-conforming to:

IEC 61850 First Edition Parts 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 29-07-2013, version 0.2.0".

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 (20/24)	12a	Direct Control (6/12)
2	Data Sets (3/6)	12b	SBO Control (8/14)
2+	Data Set Definition (23/23)	12c	Enhanced Direct Control (6/13)
5	Unbuffered Reporting (15/19)	12d	Enhanced SBO Control (11/19)
6	Buffered Reporting (17/21)	13	Time Synchronization (3/5)
9a	GOOSE Publish (11/13)	14	File Transfer (6/7)
9b	GOOSE Subscribe (10/11)		

This certificate includes a summary of the test results as carried out at InfoTech in Poland with UniCA 61850 Client simulator 4.26.04 with test suite 3.23.00 and UniCA 61850 Analyzer 5.26.04. This document has been issued for information purposes only, and the original paper copy of the KEMA report No. 74104491 - MOC/INC 13-2739 will prevail.

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

Arnhem, 29th July 2013

M. Adriaensen
Director Intelligent Networks & Communication

i/a

R. Schimmel
Certification Manager

[1] Level A - Independent test lab with certified ISO 9001 Quality System
[2] TPCL - Test procedures change list

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Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, Srv8, SrvN1e, SrvN1f SrvN3
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, Rp12 RpN1, RpN2, RpN3, RpN4	Rp6, Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br6, Br10, Br11
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop10a	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, SBOns2	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	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c

All configuration file and data model tests have been successfully performed for the product variants using the same communication hardware and software version: VAMP52, VAMP55 and VAMP59.