



IEC 61850 Certificate Level A¹

No. 74100343-NMEA 11-0652

Issued to:
Schneider Electric
Energy Business
Usine M4
38050 Grenoble Cedex
France

For the product:
Sepam series 60 version 7.1 with ACE850
version 1.2

Issued by:



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: "Sepam IEC 61850 communication for Sepam series 20/40/60/80 User's manual 03/2011" and product's extra information for testing: "Sepam IEC 61850 communication for Sepam series 20/40/60/80 User's manual 03/2011".

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 v2.2):

1	Basic Exchange (18/24)	9a	GOOSE Publish (7/12)
2	Data Sets (3/6)	9b	GOOSE Subscribe (9/10)
4	Setting Group Selection (2/3)	12a	Direct Control (5/11)
5	Unbuffered Reporting (13/18)	12d	Enhanced SBO Control (10/19)
6	Buffered Reporting (16/20)	13	Time Synchronization (3/4)
		14	File Transfer (4/7)

This Certificate includes a summary of the test results as carried out at Schneider Electric in France with UniCasim 61850 version 3.21.02 with test suite 3.20.00 and UniCA 61850 analyzer 4.21.03. The test is based on the UCA International Users Group Device Test Procedures version 2.2. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74100343 -NMEA 11-0651 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by Schneider Electric. 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, March 15, 2011

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Regional Director Management & Operations Consulting

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



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

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv8, SrvN1e, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
4: Setting Group Selection	Sg1, SgN1a	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, Br11
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12a: Direct control	CltN3, CltN8, DOns1, DOns3	CtIN11
12d: Enhanced SBO control	CtI3, CtIN1, CtIN2, CtIN3, CtIN4, CtIN9 SBOes1, SBOes2, SBOes3	CtIN11
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	