



# IEC 61850 Certificate Level A<sup>1</sup>

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No. 74105520-OPE/INC 14-0744

Issued to:  
Sécheron SA  
Rue du Pré-Bouvier 25  
1217 Meyrin - Geneva  
Switzerland

For the server product:  
SEPCOS Control and Protection Relay  
Hardware Version: SEPCOS  
Software Version: 1.14

Issued by:



**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, the UCA International Users Group Device Test Procedures version 2.3 with TPCL<sup>2</sup> version 1.7, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in SEPCOS v1.0" (04/03/14), "Model Implementation Conformance Statement for the IEC 61850 interface in SEPCOS v1.0" (20/02/14) and "TISSUES Implementation Conformance Statement for the IEC 61850 interface in SEPCOS v1.0" (20/02/14) and the extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in Secheron SEPCOS v1.0" (04/03/14).

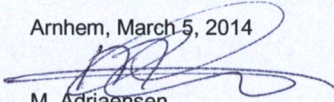
The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases):

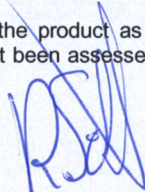
1	Basic Exchange (21/24)	12a	Direct Control (6/12)
2	Data Sets (3/6)	12b	SBO Control (8/14)
5	Unbuffered Reporting (15/19)	12c	Enhanced Direct Control (6/13)
6	Buffered Reporting (17/21)	12d	Enhanced SBO Control (11/19)
9a	GOOSE Publish (10/13)	13	Time Synchronization (3/5)
9b	GOOSE Subscribe (10/11)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

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA 61850 Client Simulator 4.27.4 with test suite 3.27.01 and UniCA 61850 Analyzer 5.27.7. This document has been issued for information purposes only, and the original paper copy of the KEMA report No. 74105520-OPE/INC 14-0745 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Sécheron SA. 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, March 5, 2014

  
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Director Intelligent Networks & Communication

  
R. Schimmel  
Certification 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 Device Test Procedures version 2.3 with TPCL version 1.7

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, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
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, Gop9, Gop10a	Gop1, Gop6, Gop10b, GopN1
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct Control	CtlN3, CtlN8 DOs1	Ctl2, CtlN11, DOs3
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	
14: File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c