



IEC 61850 Certificate Level A¹

No. 74104382-MOC/INC 13-2696

Issued to:
ABB Oy
Substation Automation Products
Muottitie 2A, PB 699
65101 Vaasa, Finland

For the client system:
MicroSCADA Pro
Software: SYS 600 9.3
Hardware: SYS 600C 2.93
Operating system: Windows Server 2008



The client system 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 and UCA IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface, revision 1.1 with TPCL² version 1.2 with client system's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in SYS 600, rev. A", "Model Implementation Conformance Statement for the IEC 61850 interface in SYS 600, rev. A", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in SYS 600, rev. A" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in SYS 600, rev. A".

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 (17/22)	12a	Direct Control (7/7)
2	Data Sets (4/9)	12b	SBO Control (9/9)
2+	Data Set Definition (4/4)	12c	Enhanced Direct Control (7/7)
3	Substitution (3/3)	12d	Enhanced SBO Control (9/9)
4	Setting Group Selection (2/4)	13	Time Synchronization (2/4)
4+	Setting Group Definition (2/2)	14	File Transfer (8/8)
5	Unbuffered Reporting (15/18)		
6	Buffered Reporting (19/22)		

This certificate includes a summary of the test results as carried out at ABB in Finland with UniCA Multi IED Simulator version 3.26.01 and UniCA 61850 Analyzer version 5.26.04. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74104382-MOC/INC 13-2697 will prevail.

The test has been carried out on one single specimen of the client system as referred above and submitted to KEMA by ABB. 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, July, 1, 2013

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Director Intelligent Networks & Communication

1/a
R. Schimmel
Certification Manager

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

² TPCL - Test Procedure Change List

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Applicable Test Procedures from the UCA IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface, revision 1.1 with TPCL version 1.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAss4, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7, cSrv1, cSrv5, cSrv6, cSrvN1, cSrvN3, cSrvN4, cSrvN5, cSrvN6
2: Data Sets		cDs2, cDs5, cDsN1a, cDsN1b
2+: Data Set Definition	cDs6, cDsN4	cDs7, cDsN5
3: Substitution	cSub1	cSub2, cSub3
4: Setting Group Selection	cSg2, cSgN1	
4+: Setting Group Definition	cSg3, cSg4	
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp2, cRp6, cRp7, cRpN4, cRpN5
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBr2, cBr6, cBr7, cBr13, cBrN4, cBrN5
12a: Direct control	cCtl4, cCtlN1 cDOns1, cDOns2	cCtl1, cCtl2, cCtl3
12b: SBO control	cCtl4, cCtlN1 cSBOns1, cSBOns2, cSBOns3	cCtl1, cCtl2, cCtl3 cSBOns4
12c: Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	cCtl1, cCtl2, cCtl3
12d: Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	cCtl1, cCtl2, cCtl3 cSBOes4
13: Time sync	cTm1	cTm2
14: File transfer	cFt1, cFt2, cFt3, cFtN1, cFtN2	cFt4, cFt5, cFtN3