



IEC 61850 Certificate Level A¹

No 74104097-MOC/INC 13-1175

Issued to:
Invensys Operations Management
5601 Granite Parkway III, Suite 1000
Plano, Texas 75024
USA

For the client system:
SCD5200
SY-1101205_F
Hardware: Invensys Station Computing
Device SCD5200

Issued by:



The client system 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 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: "IEC 61850 interface in IA SCADA Remote Devices Protocol Implementation Conformance Statement (PICS)", "IEC 61850 interface in IA SCADA Remote Devices Model Implementation Conformance Statement (MICS)", "IEC 61850 interface in IA SCADA Remote Devices TISSUE Implementation Conformance Statement (TICS)" and product's extra information for testing: "IEC 61850 interface in IA SCADA Remote Devices Protocol Implementation eXtra Information for Testing (PIXIT)".

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 (12/22)	12a	Direct Control (6/7)
5	Unbuffered Reporting (14/18)	12b	SBO Control (8/9)
6	Buffered Reporting (17/22)	12c	Enhanced Direct Control (6/7)
		12d	Enhanced SBO Control (8/9)
		13	Time Synchronization (3/4)

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA Multi IED Simulator version 3.26.01 and UniCA 61850 Analyzer version 4.26.04. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74104097-MOC/INC 13-1176 will prevail.

The test has been carried out on one single specimen of the client system as referred above and submitted to KEMA by Invensys. 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 22, 2013

M. Adriaensen
Director Intelligent Networks & Communication

R. Schimmel
Certification Manager

¹ Level A - Independent test lab with certified ISO 9001 quality system

² TPCL - Test Procedure Change List



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, cSrv5, cSrvN3, cSrvN5
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp2, cRp6, cRp7, cRpN4
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBr2, cBr6, cBr7, cBrN4
12a: Direct control	cCtl4, cCtlN1, cDOs1, cDOs2	cCtl1, cCtl2
12b: SBO control	cCtl4, cCtlN1 cSBOs1, cSBOs2, cSBOs3	cCtl1, cCtl2, cSBOs4
12c: Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	cCtl1, cCtl2
12d: Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	cCtl1, cCtl2, cSBOes4
13: Time sync	cTm1	cTm2, cTmN1