IEC 61850 Certificate Level A[1]

International Usersgroup

No 74104097-MOC/INC 13-1178

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

For the server product:
SCD5200
SY-1101205_F
Hardware: Invensys Station Computing
Device SCD5200

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, the UCA International Users Group Device Test Procedures version 2.3 with TPCL[2] version 1.5, the product's protocol, model and technical issue implementation conformance statements: "IEC 61850 Protocol Implementation Conformance Statement (PICS) for I/A Series SCADA Remote Devices", "IEC 61850 Model Implementation Conformance Statement (MICS) for I/A Series SCADA Remote Devices" and "IEC 61850 TISSUE Implementation Conformance Statement (TICS) for I/A Series SCADA Remote Devices" and the extra information for testing: "IEC 61850 Protocol Implementation eXtra Information for Testing (PIXIT) for I/A Series SCADA Remote Devices".

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 (19/24)	9a	GOOSE Publish (7/13)
2	Data Sets (3/6)	9b	GOOSE Subscribe (10/11)
3	Substitution (4/4)	12a	Direct Control (8/12)
5	Unbuffered Reporting (16/19)	12b	SBO Control (10/14)
6	Buffered Reporting (18/21)	12c	Enhanced Direct Control (8/13)
		12d	Enhanced SBO Control (15/19)
		13	Time Synchronization (3/5)

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA 61850 Client simulator 4.26.00 with test suite 3.26.00 and UniCA 61850 Analyzer 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 13-1179 will prevail.

The test has been carried out on one single specimen of the product 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 26, 2012

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 procedures change list

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, SrvN1e, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
3: Substitution	Sub1, Sub2, Sub3, SubN1	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9, Rp11, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, Br11, Br13
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop9, Gop10a	Gop1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtlN3, CtlN8, DOns1, DOns3	Ctl2, Ctl7, CtlN10, CtlN11
12b: SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, SBOns2	Ctl2, Ctl7, CtlN10, CtlN11
12c: Enhanced Direct Control	CtlN3, CtlN8, DOes2, DOes5	Ctl2, Ctl7, CtlN10, CtlN11
12d: Enhanced SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl2, Ctl4, Ctl7, CtlN6, CtlN10, CtlN11
13: Time sync	Tm1, Tm2, TmN1	