IEC 61850 Certificate Level A[1]

No. 30820096-Consuling 10-0158

Issued to:
Wiscom System Co., Ltd
No. 100 Jiangjun Road
Jiangning District
Nanjing China

For the product:
WISCOM iPACS-5911
UHV Transmission Line Protection and
Measurement
Version 2.00

Issued by: **KEMA**

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: "Protocol Implementation Conformance Statement for the IEC 61850 interface in iPACS5911 firmware v1.0", "Model Implementation Conformance Statement for the IEC 61850 interface in iPACS5911 firmware v1.0", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in iPACS5911 firmware v1.0" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in iPACS5911 firmware v1.0".

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

This Certificate includes a summary of the test results as carried out at WISCOM System in China with UniCAsim 61850 version 3.19.02 with test suite 3.19.02 and UniCA 61850 analyzer 4.20.05. 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. 30820096-Consulting 10-0157 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by WISCOM System, China. 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, January 26, 2010

W. Strabbing
Manager Intelligent Networks and Communication

T. Xu
Test Engineer

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, Srv7, Srv8, SrvN1e, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	Dset10b
4: Setting Group Selection	Sg1, SgN1a	Sg3
4+: Setting Group Definition	Sg2, Sg4, SgN1b, SgN2, SgN3, SgN4, SgN5	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, (Rp7), (Rp10) RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, BrN6
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, CtlN8 DOns1, DOns3	Ctl2
12d: Enhanced SBO control	Ctl3, CltN1, CltN2, CltN3, CltN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl2
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	FtN1c

Note: The results of test cases Rp7 and Rp10 are inconclusive due to the read-only BufTm element with a fixed value of zero in the unbuffered report control block.