IEC 61850 Certificate Level A[1]

No. 72120203-MOC/INC 12-00313

Issued to:
Beijing Sifang Automation CO.,LTD
Address: No.9, Shangdi 4th Street,
Haidian District, Beijing
P.R.China, 100085

For the product:
CSC-103 line protection IED
V1.00 CE1 0100 8926
2011.04 D5CC BDE8

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: "Sifang CSC Series IED IEC61850 PICS V1.10", "Sifang CSC-100 IEC 61850 Modeling Implementation Conformance Statement(MICS) V1.00", "IEC 61850 Tissues conformance of Sifang" and product's extra information for testing: "IEC 61850 PIXIT report of Sifang CSC series Protection V1.10".

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 v2.2b):

1	Basic Exchange (20/24)		5	Unbuffered Reporting (16/18)
2	Data Sets (3/6)		6	Buffered Reporting (18/20)
2+	Data Set Definition (23/23)		12a	Direct Control (4/11)
3	Substitution (4/4)		13	Time Synchronization (3/5)
4	Setting Group Selection (3/3)		14	File Transfer (6/7)
4+	Setting Group Definition (7/7)			

This certificate includes a summary of the test results as carried out at KEMA in The Netherlands with UniCA 61850 Client simulator version 3.23.02 with test suite 3.23.00 and UniCA 61850 analyzer 4.21.03. The test is based on the UCA International Users Group Device Test Procedures version 2.2b. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 72120203-MOC/INC 12-00312 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Sifang. 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, April 14, 2012

M. Adriaensen
Regional Director Management & Operations Consulting

R.S. Massink
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 2.2b

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, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
2+: Data Set Definition	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9 DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14, DsetN15	
3: Substitution	Sub1, Sub2, Sub3, SubN1	
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, Rp6, Rp8, Rp9, Rp11, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br6, Br10, Br11, Br13
12a: Direct control	CtlN3, CtlN8 DOns1, DOns3	
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c