IEC 61850 Certificate Level A[1]

No. 2016PUCA0003

Issued to:

Beijing Sifang Automation CO., LTD
No.9, Shangdi 4th Street, Haidian District, Beijing，
P.R.China

For the product:

CSC-336C Numerical Binary-input Driven Protection IED
Software Version: 1.00CEF

Issued by: KETOP 开普

The server product has not been 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 test procedures change list version 1.8, the product's protocol, model and technical issue implementation conformance statements: " Protocol Implementation Conformance Statement (PICS) for CSC-336C Numerical Binary-input Driven Protection IED", " Modeling Implementation Conformance Statement(MICS) for CSC-336C Numerical Binary-input Driven Protection IED" , " IEC 61850 Tissues Conformance Statement (TICS) for CSC-336C Numerical Binary-input Driven Protection IED" and the extra information for testing :" Protocol implementation extra information (PIXIT) of the IEC 61850 communication interface in CSC-336C Numerical Binary-input Driven Protection IED ".

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 (23/24)	5	Unbuffered Reporting (18/19)
2	Data Sets (3/6)	6	Buffered Reporting (25/28)
2+	Data Set Definition (23/23)	12a	Direct control (5/12)
3	Substitution (4/4)	13	Time sync (3/5)
4	Setting Group Selection (3/3)	14	File transfer (4/7)
4+	Setting Group Definition (7/7)		

This Certificate includes a summary of the test results as carried out at the KETOP Lab's offices in Xuchang, China with UniCAsim 61850 Client Version 4.26.04 with test suite Version 3.26.00 and the UniCA 61850 analyzer Version 5.27.07. This document has been issued for information only, and the original paper copy of the KETOP Lab report: No. JW151762 will prevail.

The test have been carried out on one single specimen of the product as referred above and submitted to KETOP Lab by Beijing Sifang Automation CO., LTD. The manufacturer's production process has not been assessed. This certificate does not imply that KETOP Lab has approved any product other than the specimen tested.

Xuchang, Feb 15th, 2016

He Chun
Director of PRTC Department

Yin Qingwei
Test Engineer

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[1] Level A - Independent Test lab with ISO 17025 Quality System

Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 2.3 with test procedures change list version 1.8

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, Srv6, Srv7, Srv8, Srv9, Srv10, SrvN1e, SrvN1f, 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, Rp9, Rp15 RpN1, RpN2, RpN3, RpN4, RpN8	Rp5, Rp6, Rp7, Rp8, Rp11, Rp12, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br15, Br20, Br21, Br22, Br25, Br26, Br27, Br28 BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	Br5, Br6, Br7, Br8, Br11, Br12
12a Direct control	CtlN3, CtlN8, DOns1	CtlN11, DOns3
13 Time sync	Tm1, Tm2	TmN1
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	

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