

IEC 61850 Certificate Level A¹

No. 2016PUCA0001

Issued to:

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



For the product: CSC-316 Numerical Transformer Protection IED Software Version: 1.00MYS

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-316 Numerical Transformer Protection IED", "Modeling Implementation Conformance Statement(MICS) for CSC-316 Numerical Transformer Protection IED", "IEC 61850 Tissues Conformance Statement (TICS) for CSC-316 Numerical Transformer Protection IED", "IEC 61850 Tissues Conformance Statement (TICS) for CSC-316 Numerical Transformer Protection IED", "IEC 61850 Tissues Conformance extra information (PIXIT) of the IEC 61850 communication interface in CSC-316 Numerical Transformer 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):

The second
5 Unbuffered Reporting (18/19)
6 Buffered Reporting (25/28)
12a Direct control (5/12)
12d Enhanced SBO Control (11/19)
13 Time sync (3/5)
14 File transfer (4/7)

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. JW151674 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

银庆伟

Yin Qingwei Test Engineer

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

Page 1 of 2

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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,	AssN3, Srv6, Srv7, Srv8, Srv9,
	AssN5	Srv10, SrvN1e, SrvN1f, SrvN2,
	Srv1, Srv2, Srv3, Srv4, Srv5,	SrvN3
	SrvN1abcd, SrvN4	
2: Data Sets	Dset1, Dset10a, DsetN1ae	5522555000
2+:Data Set Definition	Dset2, Dset3, Dset4, Dset5, Dset6,	225528880000
	Dset7, Dset8, Dset9, DsetN1cd,	
	DsetN2, DsetN3, DsetN4, DsetN5,	222222222
	DsetN6, DsetN7, DsetN8, DsetN9,	866665555
	DsetN10, DsetN11, DsetN12,	
	DsetN13, DsetN14, DsetN15	
3: Substitution	Sub1, Sub2, Sub3, SubN1	SSS SSS SSS
4: Setting Group Selection	Sg1, SgN1a, Sg3	20200000000
4+: Setting Group	Sg2, Sg4	
Definition	SgN1b, SgN2, SgN3, SgN4, SgN5	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9, Rp15	Rp5, Rp6, Rp7, Rp8, Rp11, Rp12
	RpN1, RpN2, RpN3, RpN4, RpN8	RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br15, Br20,	Br5, Br6, Br7, Br8, Br11, Br12
	Br21, Br22, Br25, Br26, Br27, Br28	
	BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	20202026666
12a Direct control	CtlN3, CtlN8, DOns1	CtlN11, DOns3
12d Enhanced SBO	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4,	CtlN6, CtlN11
control	CtlN9	3322355552222
	SBOes1, SBOes2, SBOes3	28658860
13 Time sync	Tm1, Tm2	TmN1
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	22626262626
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Page 2 of 2

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