

IEC 61850 Certificate Level A¹

No. 2017PUCA0002

Issued to:

INTEGRATED ELECTRONIC SYSTEMS LAB CO., LTD.

No.1677 Kehang Road, Jinan, Shandong, China



For the product: NSA-013 Transmission Line Protection Software Version: V1.0

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 Server Device Test Procedures version 3.03, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) for NSA-013 Transmission Line Protection", "Modeling Implementation Conformance Statement(MICS) for NSA-013 Transmission Line Protection", "IEC 61850 Tissues Conformance Statement (TICS) for NSA-013 Transmission Line Protection" and the extra information for testing : "Protocol implementation extra information (PIXIT) of the IEC 61850 communication interface in NSA-013 Transmission Line Protection".

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 (22/24)	9a GOOSE Publish (8/12)	
2 Data Sets (3/6)	9b GOOSE Subscribe (11/11)	
3 Substitution(4/4)	12a Direct control (3/11)	
4 Setting Group Selection (3/3)	12d Enhanced SBO Control (10/19)	
4+ Setting Group Definition (7/7)	13 Time sync (3/5)	
5 Unbuffered Reporting (17/18)	14 File transfer (7/7)	
6 Buffered Reporting (24/27)	25555555555555555555555555555555555555	

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 4.29.03 with test suite Version 3.31.00 and the UniCA 61850 analyzer Version 5.31.00 and the UnicASim 61850 GOOSE Version 2.26. This document has been issued for information purposes only, and the original paper copy of the KETOP Lab report: No. JW170421 will prevail.

The test have been carried out on one single specimen of the product as referred above and submitted to KETOP Lab by INTEGRATED ELECTRONIC SYSTEMS LAB 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, Jun 14th, 2017

He Chun Director of PRTC Department

刘德森

Liu Desen Test Engineer

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

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China KETOP Lab (Xuchang KETOP Testing Technology CO.LTD) National Center For Quality Supervision & Testing of Relay Protection and Automation Equipment 1706#, Xuji Avenue, XuChang, Henan, P.R. China, P.C. 461000 T +86 374 3212841 F +86 374 3212775 www.ketop.cn



Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 3.03

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4,	AssN3, Srv6, Srv7, Srv8, Srv9,
	AssN5	Srv10, SrvN1e, SrvN1f, SrvN3
	Srv1, Srv2, Srv3, Srv4, Srv5,	
	SrvN1abcd, SrvN4	
2: Data Sets	Dset1, Dset10a, DsetN1ae	
3: Substitution	Sub1,Sub2,Sub3,SubN1	
4: Setting Group Selection	Sg1, SgN1a,Sg3	
4+: Setting Group Definition	Sg2, Sg4	
	SgN1b, SgN2, SgN3, SgN4, SgN5	856666888
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9	Rp5, Rp6, Rp7, Rp8, Rp11, Rp12,
	RpN1, RpN2, RpN3, RpN4, RpN8	RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br20, Br21,	Br5, Br6,Br7,Br8, Br11, Br12
	Br22, Br25, Br26, Br27, Br28	
	BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop9, Gop10a	Gop1, Gop5, Gop7
9b:GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b, Gos4
12a: Direct control	CtlN3, DOns1	DOns3
12d: Enhanced SBO control	CtlN1, CtlN2, CtlN3, CtlN4, CtlN9	Ctl3,CtlN6
	SBOes1, SBOes2, SBOes3	3555555202C
13: Time sync	Tm1, Tm2	TmN1
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, Ft3, FtN1c

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