

IEC 61850 Certificate Level A1

No. 2017PUCA0004

Issued to:

ZHUHAI WANLIDA ELECTRICAL AUTOMATION CO.,LTD.

Block 1, Wanlida Relay Protection Science and Technology Park, No. 12 of No. 1 Science and Technology Road, Zhuhai Hi-Tech Industrial Development Zone, Zhuhai City, Guang Dong Province.

For the product:

BRK-3001 Communications Server Software Version: V4.011.00.01

Issued by: KEOPHE

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 BRK-3001 Communications Server", "Modeling Implementation Conformance Statement(MICS) for BRK-3001 Communications Server" is IEC 61850 Tissues Conformance Statement (TICS) for BRK-3001 Communications Server" and the extra information for testing: "Protocol implementation extra information (PIXIT) of the IEC 61850 communication interface in BRK-3001 Communications Server".

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)

2 Data Sets (3/6)

5 Unbuffered Reporting (17/18)

6 Buffered Reporting (24/27)

13 Time sync (3/5)

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. This document has been issued for information purposes only, and the original paper copy of the KETOP Lab report: No. JW171108 will prevail.

The test have been carried out on one single specimen of the product as referred above and submitted to KETOP Lab by ZHUHAI WANLIDA ELECTRICAL 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, Jul 11th, 2017

极春

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

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	
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	
13: Time sync	Tm1, Tm2	TmN1