

IEC 61850 Certificate Level A1

No. 2019PUCA003

Issued to

BEIJING DIPPER GALAXY TECHNOLOGY CO., LTD. Room 601,6F,East half building of Building 5,No.2 Yard, Zhenxing Road,Science and Technology

Park , Changping, Beijing, China

BDKQ-1000 Power Supply High Speed Switching

Device

For the product:

Software Version: V1.0

Issued by: **KEOP**开警

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 3.2, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) for BDKQ-1000 Power Supply High Speed Switching Device", "Modeling Implementation Conformance Statement(MICS) for BDKQ-1000 Power Supply High Speed Switching Device", "IEC 61850 Tissues Conformance Statement (TICS) for BDKQ-1000 Power Supply High Speed Switching Device", and the extra information for testing: "Protocol implementation extra information (PIXIT) of the IEC 61850 communication interface in BDKQ-1000 Power Supply High Speed Switching Device".

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)
- 4 Setting Group Selection (3/3)
- 4+ Setting Group Definition (7/7)
- Unbuffered Reporting (15/18)

- 6 Buffered Reporting (22/27)
- 12d Enhanced SBO Control (10/19)
- 13 Time sync (2/5)
- 14 File transfer (6/7)

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 4.29.03 with test suite Version 3.31.00 and 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. JW191269 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 DIPPER GALAXY TECHNOLOGY 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 15th, 2019

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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Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 3.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2	AssN3, Srv6, Srv7, Srv8, Srv9,
	AssN4, AssN5	Srv10, SrvN1e, SrvN1f, SrvN3
	Srv1, Srv2, Srv3, Srv4, Srv5,	
	SrvN1abcd, SrvN4	
2: Data Sets	Dset1, Dset10a, DsetN1ae	
4: Setting Group Selection	Sg1, Sg3, SgN1a	
4+: Setting Group Definition	Sg2, Sg4	
	SgN1b, SgN2, SgN3, SgN4, SgN5	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9	Rp5,Rp8, Rp11, Rp12, RpN5
	RpN1, RpN2, RpN3, RpN4, RpN8	
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br20, Br21,	Br5,Br8, Br11, Br12
	Br22, Br25, Br26, Br27, Br28	
	BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	
12d: Enhanced SBO control	CtlN1, CtlN2, CtlN3, CtlN4, CtlN9	Ctl3,CtlN6
	SBOes1, SBOes2, SBOes3	
13: Time sync	Tm1, Tm2	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c

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