



IEC 61850 Certificate Level A¹

No. 2017PUCA0007

Issued to:

BEIJING DEVOTE RELAY PROTECTION AUTOMATION TECHNOLOGY CO.,LTD.

Address: No.17 JuYuan Middle Road, JuYuan Industrial Zone of MaPo, ShunYi, Beijing

For the product:

iDP-110 110kV Integrated Intelligent Control Device
Software Version: 0100

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 Server Device Test Procedures version 3.03, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) for iDP-110 110kV Integrated Intelligent Control Device", "Modeling Implementation Conformance Statement (MICS) for iDP-110 110kV Integrated Intelligent Control Device", "IEC 61850 Tissues Conformance Statement (TICS) for iDP-110 110kV Integrated Intelligent Control Device" and the extra information for testing: "Protocol implementation extra information (PIXIT) of the IEC 61850 communication interface in iDP-110 110kV Integrated Intelligent Control 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)	6 Buffered Reporting (22/27)
2 Data Sets (3/6)	12a Direct control (3/11)
3 Substitution(4/4)	12d Enhanced SBO Control (11/19)
4 Setting Group Selection (3/3)	13 Time sync (3/5)
4+ Setting Group Definition (7/7)	14 File transfer (4/7)
5 Unbuffered Reporting (15/18)	

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. JW171296 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 DEVOTE RELAY PROTECTION AUTOMATION 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, Oct 10th, 2017

He Chun
Director of PRTC Department

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**

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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, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, Srv6, Srv7, Srv8, Srv9, Srv10, SrvN1e, SrvN1f, SrvN3
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	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9 RpN1, RpN2, RpN3, RpN4, RpN8	Rp5,Rp8, Rp11, Rp12, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br20, Br21, Br22, Br25, Br26, Br27, Br28 BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	Br5,Br8, Br11, Br12
12a: Direct control	CtlN3, DOns1	DOns3
12d: Enhanced SBO control	CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl3,CtlN6,CtlN11
13: Time sync	Tm1, Tm2	TmN1
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	

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