



IEC 61850 Certificate Level A¹

Ref. No: 2016TS00410

Issued to:
KEPCO KDN Co., Ltd.
661, Bitgaram-ro, Naju-si, Jeollanam-do
Republic of Korea, 520-350

For the server product:
KCMD_L
Local CMD IED
Firmware 1.0
Hardware 1.0

Issued by:
Korea Electrotechnology Research Institute

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, UCA International Users Group Device Test Procedures version 3.02, the product's protocol, model and technical issue implementation conformance statements. "Protocol Implementation Conformance Statement for the IEC 61850 interface in KCMD_L, v1.0", "Model Implementation Conformance Statement for the IEC 61850 interface in KCMD_L, v1.0", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in KCMD_L, v1.0" and product's extra information for testing "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in KCMD_L, v1.0".

The following IEC 61850 conformance blocks are tested with a positive result (number of relevant and executed test cases / total number of test cases) :

1	Basic Exchange (20/24)	12d	Enhanced SBO Control (10/19)
2	Data Sets (3/6)	13	Time Synchronization (4/5)
2+	Data Set Definition (24/24)	14	File Transfer (4/7)
5	Unbuffered Reporting (19/19)		

This Certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniCA 61850 Client simulator version 4.29.03 with test suite version 3.29.02(TP 3.0) and UniCA 61850 analyzer version 5.29.02. This document has been issued for information purposes only, and the original paper copy of the KERI report: 2016TS00410 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KERI by KEPCO KDN Co., Ltd. The manufacturer's production process has not been assessed. This Certificate does not imply that KERI has approved any product other than the specimen tested.

Republic of Korea, February 22, 2016


Y. J. Lee
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¹ Level A – Independent Tester with certified ISO 17025 Quality System



Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 3.02

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3 Srv6, Srv7, Srv8, SrvN1e, SrvN1f, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
2+: Data Sets Definition	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9 DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14	DsetN15a, DsetN15b
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9, Rp15, RpN1, RpN2, RpN3, RpN4, RpN8	Rp5, Rp6, Rp7, Rp8, Rp10, Rp11, Rp12, RpN5
12d: Enhanced SBO control	CtiN1, CtiN2, CtiN3, CtiN4, CtiN9 SBOes1, SBOes2, SBOes3	Cti2, Cti3
13: Time sync	Tm1, Tm2	TmN1, TmN2
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	