

IEC 61850 Certificate Level A¹

Ref. No: 2016TS00028

Issued to:

On-line Power System Engineering Co., Ltd.
#304, Hyundai I Valley 223-12, SangDaewon-Dong,
Jungwon-Gu, Seongnam-City, Gyeonggi-Do,
Republic of Korea, 462-807

For the server product:

OP-MPD
Power equipment partial discharge
diagnostic data collection device
Software V1.0
ARK-1123C with Window 7

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 OP-MPD, V1.0", "Model Implementation Conformance Statement for the IEC 61850 interface in OP-MPD, V1.0", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in OP-MPD, V1.0" and product's extra information for testing "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in OP-MPD, 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)	13 Time Synchronization (4/5)
2 Data Sets (3/6)	14 File Transfer (4/7)
6 Buffered Reporting (26/28)	

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: 2016TS00028 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KERI by On-line Power System Engineering 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, January 4, 2016


Y. J. Lee
Executive Director
Power Apparatus Testing and Evaluation Division


J. I. Jeong
Technical Manager

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	
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br15, Br20, Br21, Br22, Br25, Br26, Br27, Br28 BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	Br5, Br6, Br7, Br8, Br10, Br11, Br12
13: Time sync	Tm1, Tm2	TmN1, TmN2
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	