

IEC 61850 Certificate Level A¹

Ref. No: 21TC200268

Issued to:
DEESYS Co., Ltd.
 160 Saksigalma-ro, Daegot-myeon,
 Gimpo-si, Gyeonggi-do, 10048,
 Republic of Korea

For the server product:
IED
DIPR-7000
Hardware version: 1.00
Firmware version: 1.01
Comm. Map version: 1.02

Issued by:
Korea Electrotechnology Research Institute
 111, Hanggaul-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, 15588, Republic of Korea

**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 3.3a, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in DIPR-7000, v1.0", "Model Implementation Conformance Statement for the IEC 61850 interface in DIPR-7000, v1.0", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in DIPR-7000, v1.0" and product's extra information for testing "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in DIPR-7000, v1.0".

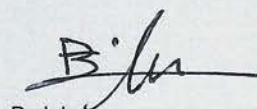
The following IEC 61850 conformance blocks are tested with a positive result (number of relevant and executed test cases / total number of test cases) :

1	Basic Exchange (21/25)	9a	GOOSE Publish (11/12)
2	Data Sets (4/6)	9b	GOOSE Subscribe (11/11)
2+	Data Set Definition (24/24)	12a	Direct Control (5/12)
3	Setting Group Selection (3/3)	12d	Enhanced SBO Control (12/19)
5	Unbuffered Reporting (18/18)	13	Time Synchronization (4/5)
6	Buffered Reporting (25/27)	14	File Transfer (4/7)

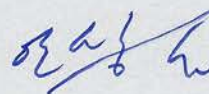
This Certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniCA 61850 Client simulator version 4.31.02 with test suite version 3.31(TP 3.3) and UniCA 61850 analyzer version 5.34.02. This document has been issued for information purposes only, and the original paper copy of the KERI report: 21TC200268 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KERI by DEESYS 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, April 21, 2021



D. J. Lee
 Executive Director
 High Voltage Testing Division



S. P. Ahn
 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 3.3a

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, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	Dset10b
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
3: Setting group selection	Sg1, Sg3, SgN1a	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9, RpN1, RpN2, RpN3, RpN4, RpN8	Rp5, Rp6, Rp7, Rp8, Rp10, 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, Br6, Br7, Br8, Br10, Br11, Br12
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop9, Gop10a	Gop1, Gop5, Gop6, Gop7, Gop10b, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b, Gos4
12a: Direct control	CtiN3 DOs1	Cti2, CtiN11 DOs3
12d: Enhanced SBO control	CtiN1, CtiN2, CtiN3, CtiN4, CtiN9, SBOes1, SBOes2, SBOes3	Cti2, Cti3, Cti7, CtiN11
13: Time sync	Tm1, Tm2	TmN1, TmN2
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	