

IEC 61850 Certificate Level A¹

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No. 24-016233-01-1

Issued to:
ELLUX
810-Ho, A-Dong, Indukwon IT-Valley,
40, Imi-ro, Uiwang-si, Gyeonggi-do,
Republic of Korea, 16006

For the client system:
ELLUX-SCADA
Danit-61850
Software Version 1.0
HW : Dell xps 15 9570
OS : Windows 10
S/N : Ellux_Danit_61850_1.0

Issued by: **KOREA TESTING LABORATORY**

**The CLIENT has not been shown to be non-conforming to:
IEC 61850 Edition 2 Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1
Communication networks and systems in power utility automation**

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Client Test Procedures version 1.2 with product's protocol, model and technical issue implementation conformance statements: "Ellux_Danit_Ed2_PICS", "Ellux_Danit_Ed2_MICS", "Ellux_Danit_Ed2_TICS" and product's extra information for testing: "Ellux_Danit_Ed2_PIXIT".

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 (19/24)	5	Unbuffered Reporting (23/24)
2	Data Sets (8/10)	12a	Direct Control (7/9)
2+	Data Set Definition (8/8)	13	Time Sync (4/4)

This certificate includes a summary of the test results as carried out at Seoul in the Republic of Korea with IEC 61850 Ed2 Virtual Server version 1 with test suite IEC 61850 Ed2 Client Conformance Verifier1.0 and KEPCO ANALYZER 1.0. This document has been issued for information purposes only, and the original paper copy of KTL report: No. TR-24-016233-01-1 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KTL by ELLUX. The manufacturer's production process has not been assessed. This certificate does not imply that KTL has certified or approved any product other than the specimen tested.

Seoul, May 31, 2024

A. Han

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1 Level A - Independent Test lab with accredited ISO/IEC 17025 Quality System

Applicable Test Procedures from the UCA International Users Group Edition 2 Client Test Procedures version 1.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cSrv1, cSrv2, cSrv3, cSrv4, cSrv5, cSrv6, cSrv7, cSrvN1, cSrvN3, cSrvN4, cSrvN5, cSrvN6
2: Data Sets		cDs1, cDs2, cDs3, cDs5, cDs6, cDsN1a, cDsN1b, cDsN1c
2+: Data Set Definition		cDs10, cDs11, cDs12, cDs13, cDs14, cDsN10a, cDsN10b, cDsN11
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp1, cRp2, cRp6, cRp7, cRp12, cRp13b, cRp16, cRp17, cRpN1
12a: Direct Control	cCtl4a, cCtl5a, cDOns1, cDOns2	cCtl1a, cCtl2a, cCtl3a
13: Time Sync	cTm1, cTmN1	cTm2, cTmN2

