



IEC 61850 Certificate Level A¹

Page 1/2 No. 20-075828-04-5

Issued to: LK Eleven Co., Ltd 1306, SK⁽¹⁾technopark Megacenter, 124, Sagimakgol-ro, Jungwon-gu, Seongnam-Si, Gyeonggi-do, 13207, Republic of Korea For the server product: SA Local Information Processing Device LK_SALID Software Version 1.0 HW : LK_SALID OS : Windows Server 2016 S/N : LKSA-LID-2010001

Issued by: Korea Testing Laboratory

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 3.3, the product's protocol, model and technical issue implementation conformance statements: "LK11_LK_SALID_PICS_v.1", "LK11_LK_SALID_MICS_v.1", "LK11_LK_SALID_TICS_v.1" and the extra information for testing: "LK11_LK_SALID_PIXIT_v.1".

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 (21/25)	9b	GOOSE Subscribe (10/11)
2	Data Sets (3/6)	12a	Direct Control (5/11)
2+	Data Set Definition(24/24)	12d	Enhanced SBO Control (12/19)
5	Unbuffered Reporting (18/18)	13	Time Sync (4/5)
6	Buffered Reporting (25/27)	14	File Transfer (7/7)
9a	GOOSE Publish (11/12)		

This Certificate includes a summary of the test results as carried out at KTL in Republic of Korea with IEC 61850 KTL Testing Tool with test suite IEC 61850 Server Conformance Test V.1.0 and IEC 61850 KTL Trace Manager V.1.0. This document has been issued for information purposes only, and the original paper copy of the KTL report: No. TR- 20-075828-04-5 will prevail.

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

Seoul, Sep. 15, 2021

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





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Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 3.3.

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5, Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, AssN6, Srv6, Srv7, Srv8, SrvN1e, SrvN1f, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
2+: Data Set 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, 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, Gop6, Gop7, Gop10b, GopN1, GopN2
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtlN3a, DOns1	Ctl2a, CtlN11a, DOns3
12d: Enhanced SBO control	CtlN1d, CtlN2d, CtlN3d, CtlN4d, CtlN9d, SBOes1, SBOes2, SBOes3	Ctl2d, Ctl3d, CtlN6d, CtlN11d
13: Time sync	Tm1, Tm2	TmN1, TmN2
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, Ft3, FtN1c