



IEC 61850 Certificate Level A¹

Page 1/2 No. 20-008135-03-5

Issued to: GENAD SYSTEM 78, Hyeoksinsandan 5-gil, Naju-si, Jeollanam-do Republic of Korea For the server product:
Subsation Automation Local Information
Processing Device
SA-LID
Software Version 1.0

Hardware: ADVANTEC ECU-4784 with

Windows Server 2012 R2

S/N: LID-20-001

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: "GENAD_SA-LID_PICS_v.1", "GENAD_SA-LID_MICS_v.1", "GENAD_SA-LID_TICS_v.1" and the extra information for testing: "GENAD_SA-LID_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):

2+ Data Set Definition (24/24) 5 Unbuffered Reporting (18/18) 6 Buffered Reporting (25/27)	12d 13 14	Enhanced SBO Control (12/19) Time Synchronization (4/5) File Transfer (7/7)	
6 Buffered Reporting (25/27) 9a GOOSE Publish (10/12)	14	File Transfer (7/7)	

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-20-008135-03-5 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KTL by GENAD SYSTEM. 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, Aug. 8, 2020

A. Han

Ah Han Senior Engineer Digital New Business Center Jinyong Kim Principal Engineer Digital New Business Center

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





Page 2/2

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	
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, GopN1, GopN2	
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b	
12a: Direct Control	CtlN3, DOns1	Ctl2, Ctl7, DOns3	
12d: Enhanced SBO Control	CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl2, Ctl3, Ctl7, CtlN6	
13: Time Sync	Tm1, Tm2	TmN1, TmN2	
14: File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, Ft3, FtN1c	