

IEC 61850 Certificate Level A¹

Issued to:

SNIIT Corporation #711, 172, LS-ro, Gunpyo-si, Gyeonggi-do, Republic of Korea No. 22TC200875

For the server product: Gateway (Protocol converter) SNI 61850 Server Software version: 1.0.0.0 HW: LG notebook gram 16Z90P OS: Windows 10 Home

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

The server product 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 for power utility automation

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in <SNI 61850 Server v.1.0>", "Model Implementation Conformance Statement for the IEC 61850 interface in <SNI 61850 Server v.1.0>", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in <SNI 61850 Server v.1.0>", "TISSUES Implementation for testing: "Protocol Implementation eXtra Information for Testing for the IEC 61850 interface in <SNI 61850 Server v.1.0>".

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

1	Basic Exchange (17/26)	12a Direct Control (4/19)
2	Data Sets (4/7)	12c Enhanced Direct Control (4/21)
2+	Data Set Definition (22/24)	12d Enhanced SBO Control (10/29)
5	Unbuffered Reporting (18/23)	13 Time Synchronization (4/7)
6	Buffered Reporting (27/33)	14 File Transfer (8/8)

This certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniGrid v.2.0.1 with test suite Ed2_Server_TP2.0.5_v1.1.1+755 and UniCA Analyzer v.5.40.01. This document has been issued for information purposes only, and the original paper copy of the KERI report: No. 22TC200875 will prevail.

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

Republic of Korea, December 7, 2022

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¹ Level A - Independent Test lab with certified ISO/IEC 17025 Quality System UCA Users Group, P.O. Box 315, Shell Knob, MO 65747, USA



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Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5,	sAssN6
	sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdf, sSrvN4	
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
2+: Data Set Definition	sDs2, sDs3, sDs4, sDs5, sDs6, sDs7, sDs8, sDs9, sDs13, sDs14, sDsN1cd, sDsN2, sDsN3, sDsN4, sDsN5, sDsN6, sDsN7, sDsN8, sDsN9, sDsN10	sDs11, sDs12
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp8, sRp10, sRp11, sRp12, sRp15
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr16, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBr29, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8	sBr8, sBr10, sBr11, sBr12, sBr15
12a Direct control	sCtl5, sCtl10, sDOns1, sDOns2	
12c Enhanced Direct control	sCtl5, sCtl10, sDOes1, sDOes2	
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	
13 Time sync	sTm1, sTm2, sTmN1	sTmN2
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	sFt2c, sFt3, sFtN1c



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