



# IEC 61850 Certificate Level A<sup>1</sup>

Ref. No: 19TC201561

Issued to:  
**SNIIT Corporation**  
 #711, 172, LS-ro, Gunpyo-si, Gyeonggi-do,  
 Republic of Korea

For the client system:  
**SNI IEC 61850 Client**  
 Version 1.0.0.0

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

The client system has not 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 User Group Edition 2 Client Test Procedures version 1.1.1 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in <SNI IEC 61850 Client, version 1.1>", "Model Implementation Conformance Statement for the IEC 61850 interface in <SNI IEC 61850 Client, version 1.0>", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in <SNI IEC 61850 Client, version 1.0>" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in <SNI IEC 61850 Client, version 1.0>".

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

1	Basic Exchange (11/25)	12a	Direct Control (6/9)
2	Data Sets (8/10)	12b	SBO Control (8/11)
5	Unbuffered Reports (17/24)	12c	Enhanced Direct Control (6/9)
6	Buffered Reports (20/28)	12d	Enhanced SBO Control (8/11)
		13	Time Synchronization (3/4)
		14	File Transfer (5/8)

This Certificate includes a summary of the test results as carried out at KERI in Republic of Korea with UniCA IED simulator version 5.29.06, Anvil 3.8.0.0 and UniCA 61850 analyzer version 5.31.00. This document has been issued for information purposes only, and the original paper copy of the KERI report: 19TC201561 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 approved any product other than the specimen tested.

Republic of Korea, August 19, 2019

D. J. Lee  
 Executive Director  
 High Voltage Evaluation Division

S. P. Ahn  
 Technical Manager

<sup>1</sup> Level A – Independent Tester with certified ISO 17025 Quality System

<sup>2</sup> TPCL - Test procedures change list

Applicable Test Procedures from the UCA International Users Group Edition 2 Client Test Procedures version 1.1.1.

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cSrv1, cSrv5, cSrv7, cSrvN3
2: Data Sets		cDs1, cDs2, cDs3, cDs5, cDs6 cDsN1a, cDsN1b, cDsN1c
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp2, cRp6, cRp7
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr19, cBr30, cBr31, cBrN2, cBrN5, cBrN6	cBr2, cBr6, cBr7, cBr32
12a: Direct control	cCtl4, cCtl5, cDOns1, cDOns2	cCtl1, cCtl2
12b: SBO control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3	cCtl1, cCtl2, cSBOns4
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	cCtl1, cCtl2
12d: Enhanced SBO control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	cCtl1, cCtl2, cSBOes4
13: Time sync	cTm1, cTmN1	cTmN2
14: File transfer	cFt1, cFt3, cFtN1	cFt2, cFtN2