



IEC 61850 Certificate Level A¹

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Issued to: SANION CO., LTD. 13, Geomdan-ro 114beon-gil, Seo-gu, Incheon, 22663 Republic of Korea For the server product:
Subsation Automation Information Monitoring & Diagnosis Device
SMD-K020
Software Version 1.0

Hardware: SMD-K020 with Windows Server 2016

S/N: SN-SMD-K020-2020-9001

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 3.2, the product's protocol, model and technical issue implementation conformance statements: "SMD-K020_PICS_v.1", "SMD-K020_MICS_v.1", "SMD-K020_TICS_v.1" and the extra information for testing: "SMD-K020_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 Exch	ange (21/25)		12a	Direct Control (4/11)
2 Data Sets (3/6)		12c	Enhanced Direct Control (5/13)
2+ Data Set D	efinition (24/24)		12d	Enhanced SBO Control (11/19)
5 Unbuffered	Reporting (18/18)		13	Time Synchronization (4/5)
6 Buffered Re	eporting (25/27)		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-20-015458-03-5 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KTL by SANION 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, Jul. 22, 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





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Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 3.2.

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, SrvN2
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	Rp5, Rp6, Rp7, Rp8, Rp10, Rp11, Rp12, RpN5	
6: Buffered Reporting	Br5, Br6, Br7, Br8, Br10, Br11, Br12	
12a: Direct Control	CtlN3, DOns1	CtlN11, DOns3
12c: Enhanced Direct Control	CtlN3, DOes2, Does5	CtlN6, CtlN11
12d: Enhanced SBO Control	Ctl3, CtlN6, CtlN11	
13: Time Sync	TmN1, TmN2	
14: File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, Ft3, FtN1c