

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

Issued to:  
YouSung Instrument & Electric Co.,LTD.  
37, Namdongdong-ro 64beon-gil,  
Namdong-gu, Incheon,  
Republic of Korea, 21692

For the server product:  
YSIED Intelligent Local Station  
YS-UPTOS  
Software Version 1.0  
OS : Linux  
S/N : YSUPTOS20NC011272

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: "YS\_UPTOS\_PICS\_v.1", "YS\_UPTOS\_MICS\_v.1", "YS\_UPTOS\_TICS\_v.1" and the extra information for testing: "YS\_UPTOS\_PIXIT\_v.1".

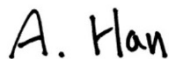
The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases):

1 Basic Exchange (20/25)	12d Enhanced SBO Control (12/19)
2 Data Sets (3/6)	13 Time Synchronization (4/5)
5 Unbuffered Reporting (17/18)	14 File Transfer (7/7)

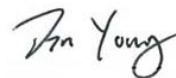
This Certificate includes a summary of the test results as carried out at KTL in Republic of Korea with IEC 61850 KTL Testing Tool with test suite IEC 61850 Server Conformance Test V.1.0 and IEC 61850 KTL Trace Manager V.1.0. This document has been issued for information purposes only, and the original paper copy of the KTL report: No. TR-20-069284-01-5 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KTL by YouSung Instrument & Electric 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, Dec. 11, 2020



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Senior Engineer  
Digital New Business Center



Jinyong Kim  
Principal Engineer  
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1 Level A - Independent Test lab with accredited ISO/IEC 17025 Quality System

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

<b>Conformance Block</b>	<b>Mandatory</b>	<b>Conditional</b>
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	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9, RpN1, RpN2, RpN3, RpN4, RpN8	Rp5, Rp6, Rp7, Rp8, Rp11, Rp12, RpN5
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

