

IEC 61850 Certificate Level A1



No. 20-11- CAV-031-01a

Issued to:

Controlnet International INC.

iEMS-10- IEC61850-Gateway

3rd Floor, No.33, 35, Lane 21, Sec.6, Minchuan E.

Version: V1.0

For the client:

Rd., Neihu District, Taipei 11494, Taiwan

Issued by:

Taiwan Testing and Certification Center

No.8, Ln. 29, Wenming Rd., Guishan Dist., Taoyuan

City 333, Taiwan (R.O.C.)

The CLIENT 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 Client Test Procedures version 1.1.1 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) for the IEC 61850 interface in iEMS-10- IEC61850-Gateway, version V1.1", "Model Implementation Conformance Statement (MICS) for the IEC 61850 Client interface in iEMS-10- IEC61850-Gateway, version V1.1", "Tissue Conformance Statement (TICS) for the IEC 61850 Client interface in iEMS-10- IEC61850-Gateway, version V1.1" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Client interface in iEMS-10- IEC61850-Gateway, version V1.1".

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

1	Basic Exchange (12/24)	12b	SBO Control (6/11)
5	Unbuffered Reporting (17/24)	12c	Enhanced Direct Control (4/9)
6	Buffered Reporting (21/28)	12d	Enhanced SBO Control (6/11)
12a	Direct Control (4/9)	13	Time Synchronization (4/4)

This Certificate includes a summary of the test results as carried out at Taiwan Testing and Certification Center, Taoyuan City in Taiwan(R.O.C.) with Triangle MicroWorks Anvil 3.8.0.0 and Wireshark version 3.2.6. This document has been issued for information purposes only, and the original paper copy of the ETC report: No. 20-11- CAV-031-01a will prevail.

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

Taoyuan, Sep 8 2021

Hsi-Hsun Yeh Technical Certifier Cheng-Hsien Lin Test Engineer

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





No. 20-11- CAV-031-01a

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,	cAssN7		
	cAssN5 cAssN6	cSrv5, cSrv10, cSrvN5, cSrvN6		
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10,	cRp6, cRp7, cRp18		
	cRp11, cRp13a, cRp14, cRp15, cRp19,	The Bit		
	cRpN2, cRpN5, cRpN6	* 5		
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10,	cBr6, cBr7, cBr18, cBr32, cBr33		
	cBr11, cBr13a, cBr14, cBr15, cBr19,			
	cBr30, cBr31, cBrN2, cBrN5, cBrN6	ALC: ALC:		
12a: Direct Control	cCtl4, cCtl5			
131.5	cDOns1, cDOns2	TO THE		
12b: SBO Control	cCtl4, cCtl5	cSBOns4		
	cSBOns1, cSBOns2, cSBOns3	CSBOIIS4		
2c: Enhanced Direct Control	cCtl4, cCtl5			
	cDOes1, cDOes2	= =====================================		
2d: Enhanced SBO Control	cCtl4, cCtl5	cSBOes4		
	cSBOes1, cSBOes2, cSBOes3	CODOCST		
13: Time Sync	cTm1, cTmN1	cTm2, cTmN2		