

**Issued to:**

CONTROLNET INTERNATIONAL INC.  
3rd Floor, No.33, 35, Lane 21, Sec.6, Minchuan E.  
Rd., Neihu District, Taipei 11494, Taiwan

**For the client:**

iEMS-10- IEC61850-Gateway  
Version: V1.0

**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 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 V1.0", "Model Implementation Conformance Statement (MICS) for the IEC 61850 Client interface in iEMS-10- IEC61850-Gateway, version V1.0", "Tissue Conformance Statement (TICS) for the IEC 61850 Client interface in iEMS-10- IEC61850-Gateway, version V1.0" 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 V1.0".

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 (12/24)	12b	SBO Control (6/11)
5	Unbuffered Reporting (17/24)	12c	Enhanced Direct Control (4/9)
12a	Direct Control (4/9)	12d	Enhanced SBO Control (6/11)

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 61850 Test Suite Pro 4.4.0.3858 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 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, Jun 22 2021

*Hsi-Hsun Yeh*

Hsi-Hsun Yeh  
Technical Certifier

*Cheng-Hsien Lin*

Cheng-Hsien Lin  
Test Engineer

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

No. 20-11-CAV-031

Applicable Test Procedures from the UCA International Users Group Edition 2 Client Test Procedures version 1.1

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5 cAssN6	cAssN7 cSrv5, cSrv10, cSrvN5, cSrvN6
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp6, cRp7, cRp18
12a: Direct Control	cCtl4, cCtl5 cDOs1, cDOs2	
12b: SBO Control	cCtl4, cCtl5 cSBOs1, cSBOs2, cSBOs3	cSBOs4
12c: Enhanced Direct Control	cCtl4, cCtl5 cDOes1, cDOes2	
12d: Enhanced SBO Control	cCtl4, cCtl5 cSBOes1, cSBOes2, cSBOes3	cSBOes4