

IEC 61850 Certificate Level A¹

No. 132845 OPE/INC 16-2666

Issued to:

CG Automation Limited
Burton Chambers
19-22 Dame St
Dublin 2
Ireland

For the client system:

XCell RTU
Remote Telemetry Unit
Software version: 61850MNB v2.01
Hardware version: CPR-041 MP10

The client system 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 Conformance Test Procedures version 1.0 with TPCL² 1.0_rev3 with product's protocol, model and technical issue implementation conformance statements: "XCELL Ed2 Client PICS v1.0", "XCELL Ed2 Client MICS v1.0" and "XCELL Ed2 Client TICS v1.0" and the extra information for testing: "XCELL Ed2 Client PIXIT v1.0".

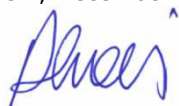
The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases):

1 Basic Exchange (15/24)	12a Direct Control (4/9)
2 Data Sets (4/10)	12b SBO Control (5/11)
5 Unbuffered Reporting (16/23)	12c Enhanced Direct Control (4/9)
6 Buffered Reporting (19/28)	12d Enhanced SBO Control (5/11)
	13 Time Synchronization (3/4)

This certificate includes a summary of the test results as carried out at CG Automation Limited in Dublin, Ireland with UniCA 61850 IED simulator 5.29.6 and UniCA 61850 Analyzer 5.31.00. This document has been issued for information purposes only, and the original paper copy of the DNV GL verification report No. 132845 OPE/INC 16-2665 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by CG Automation Limited. The manufacturer's production process has not been assessed. This certificate does not imply that DNV GL has approved any product other than the specimen tested.

Arnhem, December 14th, 2016



P. Cioci
Global Service Line Leader
Operational Excellence of Power
Systems

Issued by:



DNV KEMA is now DNV GL



R. Schimmel
Verification Manager

¹ Level A - Independent test lab with certified ISO 9001 Quality System

² TPCL - Test procedures change list

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Applicable Test Procedures from the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.0 with TPCL 1.0_rev3

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7, cSrv4, cSrv5, cSrv7, cSrvN1, cSrvN3, cSrvN5, cSrvN6
2: Data Sets		cDs2, cDs5, cDs6, cDsN1b
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRpN2, cRpN5, cRpN6	cRp2, cRp7, cRp16
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr30, cBr31, cBrN2, cBrN5, cBrN6, cBrN20	cBr2, cBr7, cBr16
12a: Direct Control	cCtl4, cCtl5, cDOns1, cDOns2	
12b: SBO Control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3	
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	
12d: Enhanced SBO Control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	
13: Time Synchronization	cTm1, cTmN1	cTm2