

IEC 61850 Certificate Level A¹

Issued to:

Tesmec Automation S.r.l.
Via Zanica 17/O
24050 Grassobbio (BG)
Italy

For the server product:

TC-CCI Power Plant Control System
(Controllore Centrale di Impianto)
Software version: v01.02
S/N: 223600000000001

The server product 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 and UCA International users group Conformance Test Procedures for Server product with IEC 61850-8-1 interface, version 2.0.5 with server product's protocol, model and technical issue implementation conformance statements: "Progetto: CCI TA-SASB21-0000A IEC 61850 - Protocol Implementation Conformance Statement (PICS), revision 1.2.0", "Progetto: CCI TA-SASB21-0000A IEC 61850 - Model implementation conformance statement (MICS), revision 1.2.0" and "Progetto: CCI TA-SASB21-0000A IEC 61850 - Tissues conformance statement (TICS), revision 1.1.0" and product's extra information for testing: "Progetto: CCI TA-SASB21-0000A IEC 61850 - Protocol Implementation eXtra Information for Testing (PIXIT), revision 1.2.0".

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 (20/26)	9b GOOSE Subscribe (18/20)
2 Data Sets (4/7)	12a Direct Control (5/18)
5 Unbuffered Reporting (21/23)	12c Enhanced Direct Control (5/20)
6 Buffered Reporting (29/33)	12d Enhanced SBO Control (12/28)
	13 Time Synchronization (4/7)

This certificate includes a summary of the test results as carried out at DNV in The Netherlands with UniGrid SA Simulator 2.1.0 with test suite 20221021.1 and UniCA 61850 Analyzer 6.41.0. This attestation has been issued for information purposes only, and the archived DNV verification report No. 10376972-DSO 22-3292 rev 2 will prevail.

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

Arnhem, October 27, 2022



G. Akse

Business Development Manager
Interoperability of Smart Power Systems

Issued by:




R. Schimmel

Verification Manager

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

UCA International Users Group P.O. Box 315, Shell Knob, MO 65747 USA

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Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcd, sSrvN4	sAssN6, sSrv9, sSrv10, sSrv12
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp6, sRp7, sRp8, sRp10, sRp11, sRp12, sRp15, sRpN5
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr16, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBr29, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8	sBr6, sBr7, sBr8, sBr10, sBr11, sBr12, sBr15
9b: GOOSE Subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGos8, sGos9, sGos10, sGos11, sGos12, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	sGos13
12a: Direct Control	sCtl5, sCtl10, sDOs1, sDOs2	sCtl15
12c: Enhanced Direct control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl15
12d: Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl6, sCtl15
13: Time Synchronization	sTm1, sTm2, sTmN1	sTmN2