

No. 10016209-OPE/INC 16-2526

Issued to:

GE Grid Solutions
Parc Eurêka
81, rue Euclide – CS 11140
34060 Montpellier cedex 2
France

For the server product:

DS Agile Gateway
Substation Gateway-Proxy / Wide Area Controller
Unit
Software version: DS Agile V7
Hardware version: UNO A30x

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, the UCA International Users Group Edition 2 Server Test Procedures version 1.0 with TPCL² 1.2.2 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) PICS for Server Test Procedures for Edition 2, revision 1.0", "Model Implementation Conformance Statement for Testing MICS for Server Test Procedures for Edition 2 revision 1.0" and "TISSUES Implementation Conformance Statement TICS for Server Test Procedures for Edition 2, revision 1.0" and the extra information for testing: "Protocol Implementation Conformance Extra Information for Testing PIXIT for Server Test Procedures for Edition 2, revision 1.0".


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 (17/26)	12a Direct Control (9/18)
2 Data Sets (4/7)	12c Enhanced Direct Control (11/20)
3 Substitution (3/3)	12d Enhanced SBO Control (18/28)
5 Unbuffered Reporting (19/21)	13 Time Synchronization (3/7)
6 Buffered Reporting (28/30)	

This certificate includes a summary of the test results as carried out at GE Grid Solutions in France with UniCA 61850 Client Simulator 4.29.03 with test suite Ed2 4.31.05 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. 10016209-OPE/INC 16-2525 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by GE Grid Solutions. 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, November 18, 2016



P. Cioci
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DNV-GL
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 Server Test Procedures version 1.0 with TPCL 1.2.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrvN1abcd, sSrvN4	sSrv8, sSrv12, sSrvN1f
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
3: Substitution	sSub1, sSub2, sSub3	
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp15, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp8, sRp10, sRp11, sRp12, sRp13, sRpN5
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr15, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8	sBr8, sBr10, sBr11, sBr12, sBr13, sBr23, sBr24
12a: Direct control	sCtl5, sCtl10, sDOs1, sDOs2	sCtl7, sCtl15, sCtl16, sCtl23, sCtl24
12c: Enhanced Direct Control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl7, sCtl14, sCtl15, sCtl16, sCtl21, sCtl23, sCtl24
12d: Enhanced SBO Control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl4, sCtl6, sCtl7, sCtl15, sCtl16, sCtl21, sCtl26, sSBOes7
13: Time sync	sTm1, sTm2, sTmN1	