

IEC 61850 Certificate Level A¹

Issued to: GE Grid Solutions Parc Eurêka 81, rue Euclide – CS 11140 34060 Montpellier cedex 2 France No. 10016209-OPE/INC 16-2430

For the server product: DS Agile C264 Modular Substation / Bay Controller Software version: DS Agile V7 Hardware version: CPUv4

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 1.1", "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 1.1".

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

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 16-2429 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, October 21, 2016

P. Cioci

Global Service Line Leader Operational Excellence of Power Systems

Issued by:





 $^1\,{\rm Level}\,{\rm A}$ - Independent test lab with certified ISO 9001 Quality System $^2\,{\rm TPCL}$ - 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
9a:	GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11	sGop1, sGop2b, sGop6, sGop7, sGopN1
9b:	GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	
12a:	Direct control	sCtl5, sCtl10, sDOns1, sDOns2	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	sTm3
14:	File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	sFt2c, sFt3, sFtN1c