

IEC 61850 Certificate Level B¹

No. 50745.6aView.801

Issued to:

GE Renewable Energy
Parc Eureka
81, rue Euclide, CS 11140
34060 Montpellier cedex 2, France

For the client product:

DS Agile aView System HMI
Firmware version: 7.15.5.0
DS Agile Agency version 8.0.2.0

Issued by:

Grid Automation Laboratories, UK Grid Solutions Limited

The client 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 Client Test Procedures version 1.2 with product's protocol, model and technical issue implementation conformance statements: "PICS for DS Agile aView V7 Rev A1.5", "MICS for Client DS Agile aView V7 Rev A1.7", "TICS for DS Agile V7 Rev B1.2" and extra information for testing "PIXIT for Client DS Agile aView V7 Rev A1.11".

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 (13/24) | 12a | Direct Control (5/9) |
| 2 | Data Sets (4/10) | 12c | Enhanced Direct Control (5/9) |
| 5 | Unbuffered Reporting (19/24) | 12d | Enhanced SBO Control (7/11) |
| 6 | Buffered Reporting (23/28) | 13 | Time Synchronization (3/4) |

This certificate includes a summary of the test results as carried out at Grid Automation Laboratories in UK Grid Solutions Limited in Stafford, United Kingdom with DNV GL UniCA IED Simulator version 6.1 and the DNV GL UniCA 61850 Analyzer version 6.3. This document has been issued for information purposes only, and the original paper copy of the Grid Automation Laboratories report: No. 50745.6aView.301 will prevail.

The tests have been carried out on one single specimen of the product as referred and submitted to Grid Automation Laboratories by GE Renewable Energy. The manufacturer's production process has not been assessed. This certificate does not imply Grid Automation Laboratories at UK Grid Solutions Limited has certified or approved any other product other than the specimen tested.

Stafford, 12 July 2022

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Grid Automation Laboratories Manager

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Grid Automation Laboratories Test Engineer

¹ Level B - Test lab with certified ISO 9001 Quality System.
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Applicable Test Procedures from the UCA International Users Group Edition 2 Client Test Procedures version 1.2

| Conformance Block | Mandatory | Conditional |
|------------------------------|--|--|
| 1: Basic Exchange | cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6 | cAssN7 cSrv5, cSrv7 cSrvN3, cSrvN5, cSrvN6 |
| 2: Data Sets | | cDs2, cDs5, cDs6, cDsN1b |
| 5: Unbuffered Reporting | cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6 | cRp2, cRp6, cRp7, cRp17, cRpN1 |
| 6: Buffered Reporting | cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr19, cBr30, cBr31, cBrN2, cBrN5, cBrN6 | cBr2, cBr6, cBr7, cBr17, cBr32, cBr33, cBrN1 |
| 12a: Direct control | cCtl4, cCtl5 cDOs1, cDOs2 | cCtl2 |
| 12c: Enhanced Direct Control | cCtl4, cCtl5 cDOes1, cDOes2 | cCtl2 |
| 12d: Enhanced SBO Control | cCtl4, cCtl5 cSBOes1, cSBOes2, cSBOes3 | cCtl2, cSBOes4 |
| 13: Time sync | cTm1, cTmN1 | cTm2 |