



IEC 61850 Certificate Level A¹

International Usersgroup

No. 74104760-MOC/INC 13-4312

Issued to:
Alstom Grid
Parc Eurêka – 81, rue Euclide
34000 - Montpellier
France

For the server product:
DS Agile GTW
Firmware: 7.2.0
Hardware: Advantech UNO-3074
OS: Windows XP Embedded v.2002 (SP2)
Serial number: UNO3074P32C1101E-T

Issued by:



The server product has not shown to be non-conforming to:
IEC 61850 First Edition Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1
Communication networks and systems in substations

The conformance test has been performed according to IEC 61850-10, the UCA International Users Group Device Test Procedures version 2.3 with TPCL² version 1.7, the product's protocol, model and technical issue implementation conformance statements: "DS Agile GTW Protocol Implementation Conformance Statement (PICS), issue E", "DS Agile GTW Model Implementation Conformance Statement (MICS), issue E" and "DS Agile GTW Tissue Implementation Conformance Statement (TICS), issue C" and the extra information for testing: "DS Agile GTW Protocol implementation extra information for testing (PIXIT), issue K".

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 (16/24)	12a	Direct Control (5/12)
2	Data Sets (3/6)	12c	Enhanced Direct Control (5/13)
5	Unbuffered Reporting (14/19)	12d	Enhanced SBO Control (10/19)
6	Buffered Reporting (17/21)	13	Time Synchronization (3/5)

This certificate includes a summary of the test results as carried out at Alstom Grid in Montpellier with UniCA 61850 Client simulator 4.27.04 with test suite 3.27.00 and UniCA 61850 Analyzer 5.27.04. This document has been issued for information purposes only, and the original paper copy of the KEMA report No. 74104760-MOC/INC 13-4311 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Alstom Grid. The manufacturer's production process has not been assessed. This attestation does not imply that KEMA has approved any product other than the specimen tested.

Arnhem, December 13, 2013

M. Adriaansen
Director Intelligent Networks & Communication

R. Schimmel
Certification 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 Device Test Procedures version 2.3 with TPCL version 1.7

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv8, SrvN1f
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, BrN6
12a: Direct control	CtlN3, CtlN8, DOns1	Ctl7, Dons3
12c: Enhanced Direct Control	CtlN3, CtlN8, DOes2, DOes5	Ctl7
12d: Enhanced SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl7
13: Time sync	Tm1, Tm2, TmN1	