

IEC 61850 Certificate Level A¹

Issued to:

Grid to Great B.V.
Hengelosestraat 500
7621 AN Enschede
The Netherlands

For the server product:

Voltage Measurement SAMU
Firmware version 1.10
S/N: 41721.2421.0004
SV Publish: F4000S114U4, F4800S210U4, F14400S610U3,
F14400S610U4

The server product has not been shown to be non-conforming to:

IEC 61850 Edition 2 with Amendment 1 Parts 6, 7-1, 7-2, 7-3, 7-4, 8-1, 9-2 and IEC 61869 First Edition Part 9

Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10 and the UCA International Users Group Edition 2 with Amendment 1 Server Test Procedures version 1.2 with product's protocol, model and tissues implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 Edition 2 Amd1 server interface in Voltage Measurement SAMU, Version 1.0", "Model Implementation Conformance Statement for the IEC 61850 Edition 2 Amd1 server interface in Voltage Measurement SAMU, Version 1.0", "TISSUES Implementation Conformance Statement for the IEC 61850 Edition 2 Amd1 server in Voltage Measurement SAMU, Version 1.0", and the extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Edition 2 Amd1 server interface in Voltage Measurement SAMU, Version 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):

	11a SV publish (15/22)
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This certificate includes a summary of the test results as carried out at DNV in The Netherlands with UniGrid SA Simulator 3.1.1 with test suite 3.1.1 and UniCA 61850 Analyzer 6.45.05. This document has been issued for information purposes only, and the archived DNV verification report No. 10505203-DSO 24-4336 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 Grid to Great B.V. 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, December 18, 2024



M. Plouvier
Test Engineer

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 Server Test Procedures from the UCA International Users Group Edition 2 with Amendment 1 Server Test Procedures version 1.2

Conformance Block	Mandatory	Conditional
11a: Sampled Values Publish	sSvp1, sSvp2, sSvp3, sSvp4, sSvp5, sSvp6, sSvp7, sSvp8, sSvp14, sSvp18	sSvp9, sSvp11, sSvp13, sSvp15, sSvp17

Test case	Limitations
sSvp17	Voltage clipping limit could not be reached