

IEC 61850 Certificate Level A¹

Issued to:

Landis+Gyr AG
Alte Steinhauserstrasse 18
6330 Cham
Switzerland

For the server product:

E65C CU-XE Grid Edge Gateway with S650 and E660
meter and E66E expansion module
IEC 61850 version: 2.0
S/N: ELGZ0043571965

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 2.0.5 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 server interface in the Landis+Gyr Grid Edge Gateway devices E66C/E65C CU-XE v1.0", "Model Implementation Conformance Statement(MICS) for the IEC 61850 Edition 2 server interface in the Landis+Gyr Grid Edge Gateway devices E66C/E65C CU-XE v1.0" and "Issues Conformance Statement(TICS) for the IEC 61850 Edition 2 server interface in the Landis+Gyr Grid Edge Gateway devices E66C/E65C CU-XE v1.0" and the extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Edition 2 server interface in the Landis+Gyr Grid Edge Gateway devices E66C/E65C CU-XE v1.0" .

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 (18/26)	13 Time Synchronization (3/7)
2 Data Sets (4/7)	14 File Transfer (5/8)
2+ Data Set Definition (24/24)	
5 Unbuffered Reporting (22/23)	

This certificate includes a summary of the test results as carried out at DNV in The Netherlands with UniGrid SA Simulator 2.0.2 with test suite 20221019.1 and UniCA 61850 Analyzer 6.41.00. This document has been issued for information purposes only, and the archived DNV verification report No. 10378289-DSO 23-2623 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 Landis+Gyr AG. 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, February 17, 2023



G. Akse
Business Development Manager
Interoperability of Smart Power Systems

Issued by:




R. Schimmel
Verification Manager

¹ Level A - Independent test lab with certified ISO 9001 Quality System
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Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcd, sSrvN4	sAssN6, sSrv9
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
2+: Data Set Definition	sDs2, sDs3, sDs4, sDs5, sDs6, sDs7, sDs8, sDs9, sDs13, sDs14, sDsN1cd, sDsN2, sDsN3, sDsN4, sDsN5, sDsN6, sDsN7, sDsN8, sDsN9, sDsN10	sDs11, sDs12, sDsN11, sDsN12
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp6, sRp7, sRp8, sRp10, sRp11, sRp12, sRp13, sRp15, sRpN5
13: Time sync	sTm1, sTm2, sTmN1	
14: File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	

All configuration file and data model tests have been successfully performed for the product variants using the same communication hardware and software version:

- E66C Grid Edge Gateway with S650 and E660 meter and E66E expansion module