

IEC 61850 Certificate Level A¹

No. 74107278-OPE/INC 15-1500

Issued to:

Schneider Electric
2195 Keating Cross Road
Saanichton, British Columbia
Canada V8M 2A5

For the server product:

PowerLogic ION8650 Meter
Firmware revision: 004.020.001
S/N: MW-1502A041-01

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 1.0 with product's protocol, model and technical issue implementation conformance statements and the extra information for testing: "IEC 61850 and ION technology, 70022-0125-04".

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 (16/26) | 12a Direct Control (6/18) |
| 2 Data Sets (4/7) | 13 Time Synchronization (3/7) |
| 5 Unbuffered Reporting (18/20) | |
| 6 Buffered Reporting (25/29) | |

This certificate includes a summary of the test results as carried out at DNV GL in the Netherlands with UniCA 61850 Client simulator 4.29.03 with test suite Ed2 3.29.01 and UniCA 61850 Analyzer 5.29.02. This document has been issued for information purposes only, and the original paper copy of the DNV GL report No. 74107278-OPE/INC 15-1499 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by Schneider Electric. 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, June 12, 2015



M. Adriaensen
Head of Department
Operational Excellence

Issued by:



DNV KEMA is now DNV GL



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 Edition 2 Server Test Procedures version 1.0 with TPCL 1.0

| Conformance Block | Mandatory | Conditional |
|-------------------------|--|--|
| 1: Basic | sAss1, sAss2, sAss3, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrvN1abcd, sSrvN4 | sSrv8, sSrvN1f |
| 2: Datasets | sDs1, sDs10a, sDs15, sDsN1ae | |
| 5: Unbuffered Reporting | sRp1, sRp2, sRp3, sRp4, sRp9, sRp14, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8 | sRp5, sRp7, sRp8, sRp10, sRp11, sRp12, sRpN5 |
| 6: Buffered Reporting | sBr1, sBr2, sBr3, sBr4, sBr9, sBr14, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8 | sBr5, sBr7, sBr8, sBr10, sBr11, sBr12, |
| 12a: Direct Control | sCtl5, sCtl10, sCtl14, sDOns1, sDOns2 | sCtl26 |
| 13: Time Sync | sTm1, sTm2, sTmN1 | |