

IEC 61850 Certificate Level A¹

No. 10069557-INC 17-2869

Issued to:

SELESOFT
Via De Marini 1
16149 Genova
Italy

For the server product:

MP48 E+++ Remote Terminal Unit
Software version: IEC61850-server 2.0.1
CPU board: VDX-6356RD
Hardware version: FB1-000012-BA
S/N: 051

The server product has not been 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 Server Device Test Procedures version 3.04, the product's protocol, model and technical issue implementation conformance statements: "MP48 - IEC 61850 Ed. 1 Client/Server PICS, HA1-000007-AA-DS", "MP48 - IEC 61850 Ed. 1 Server MICS, HA1-000008-AA-DS" and "MP48 - IEC 61850 Client/Server TICS, HA1-000010-AA-DS" and the extra information for testing: "MP48 - IEC 61850 Client/Server PIXIT, HA1-000009-AA-DS".

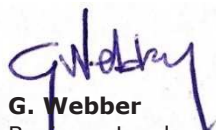
The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases):

1 Basic Exchange (17/24)	9a GOOSE Publish (10/12)
2 Data Sets (3/6)	12a Direct Control (4/11)
5 Unbuffered Reporting (15/18)	12b SBO Control (7/14)
6 Buffered Reporting (22/27)	13 Time Synchronization (3/5)

This certificate includes a summary of the test results as carried out at DNV GL in the Netherlands with UniGrid SA Simulator 1.3 with test suite 1.3 and UniCA 61850 Analyzer 5.32.04. This document has been issued for information purposes only, and the original paper copy of the DNV GL report No. 10069557-INC 17-2868 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV GL by SELESOFT. 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, November 15, 2017



G. Webber
Business Leader
Interoperability of Smart Power Systems

Issued by:



DNV-GL
DNV KEMA is now DNV GL



R. Schimmel
Verification Manager

¹ Level A - Independent test lab with certified ISO 9001 Quality System

Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 3.04

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, AssN6, Srv8, SrvN1f
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9, RpN1, RpN2, RpN3, RpN4, RpN8	Rp8, Rp10, Rp11, Rp12, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br20, Br21, Br22, Br25, Br26, Br27, Br28, BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	Br8, Br10, Br11, Br12
9a: GOOSE Publish	Gop2, Gop3, Gop4, Gop9, Gop10a	Gop1, Gop6, Gop7, Gop10b, GopN1
12a: Direct Control	CtIN3, DOns1	CtI2, DOns3
12b: SBO Control	CtIN1, CtIN2, CtIN3, CtIN4, SBOs2	CtI2, CtI3
13: Time Sync	Tm1, Tm2	TmN1