

# IEC 61850 Certificate Level A<sup>1</sup>

No. C3014777

**Issued to:**

DOBLE Engineering Company  
123 Felton Street  
Marlborough MA 01752  
USA

**For the 9-2LE publisher:**

DRTS 66L Testing Relay  
Hardware version V1.0D  
Firmware Version 2.03  
Sampled Values Communication v.1.6 Build 106  
S/N TECW01DRTS66L  
Supporting:  
4 phase voltage and current  
Neutral is measured

**Issued by:** CESI S.p.A. – KEMA Labs

**The product has not shown to be non-conforming to:**

**IEC 61850-6, 7-2 and 9-2**

**Communication networks and systems in substations**

The conformance test has been performed according to IEC 61850-10 and the UCAIUG: Test procedures version 1.1 for Sampled Values Publishers according to the "Implementation Guideline for Digital Interface to Instrument Transformers using IEC 61850-9-2 (9-2LE version 2.1)" with TPCL<sup>2</sup> version 1.1 with 9-2LE publisher's protocol implementation conformance statement: "PICS and extra information for testing PIXIT for the IEC 61850 interface in DOBLE instruments DRTS 66L, 64L, 34L, 33L - Sampled Values 9-2LE Publisher", Rev.1 (06/11/2023).

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 Sampled Value publish (12/17) | 50 Hz with 80 samples per cycle  |
| 11a Sampled Value publish (12/17) | 60 Hz with 80 samples per cycle  |
| 11a Sampled Value publish (12/17) | 50 Hz with 256 samples per cycle |
| 11a Sampled Value publish (12/17) | 60 Hz with 256 samples per cycle |

This certificate includes a summary of the test results as carried out at CESI S.p.A. – KEMA Labs in Milano, Italy with SimFlex Client Simulator Edition 2 v.3.19 with test suite version Ed.2 3.19.20230801 (including PTB HW platform) and Wireshark v.4.0.10. This document has been issued for information purposes only, and the original paper copy of the CESI S.p.A. - KEMA Labs test report: No. **C3014776** will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to CESI S.p.A. - KEMA Labs by DOBLE Engineering Company. The manufacturer's production process has not been assessed. This certificate does not imply that CESI S.p.A. - KEMA Labs has certified or approved any product other than the specimen tested.

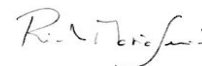
Milano, 20/11/2023



**Alessandro Bertani**

Services & Smart Technologies Director

Issued by

**Riccardo Maria Seresini**

DGL - Senior Engineer

<sup>1</sup> Level A - Independent Test lab with certified ISO 9001 Quality System

<sup>2</sup> TPCL - Test procedures change list

UCA International Users Group, P.O. Box 315, Shell Knob, MO 65747, USA

**CESI S.p.A.**

Address Rubattino 54  
I-20134 Milano - Italy  
Tel: +39 02 21251  
Fax: +39 02 2125440  
e-mail: info@cesi.it  
www.cesi.it

Share capital € 8.550.000 fully deposited  
VAT ID no. and Registered office in Milan IT00793580150  
N. R.E.A. 429222



Applicable test procedures from the UCAIUG: Test procedures version 1.1 for Sampled Values Publishers according to the "Implementation Guideline for Digital Interface to Instrument Transformers using IEC 61850-9-2 (9-2LE version 2.1)" with TPCL version 1.1

| Conformance Block                                       | Mandatory                                      | Conditional                     |
|---|--|---------------------------------|
| Configuration   | Cnf1, Cnf2, Cnf3, Cnf4, Cnf5, Cnf6, Cnf7, Cnf8 |                                 |
| 11a Sampled Value Publishing<br>50 Hz, 80 samples/cycle | Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14    | Svp4, Svp8, Svp12, Svp13, Svp16 |
| 11a Sampled Value Publishing<br>60Hz, 80 samples/cycle  | Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14    | Svp4, Svp8, Svp12, Svp13, Svp16 |
| 11a Sampled Value Publishing<br>50Hz, 256 samples/cycle | Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14    | Svp5, Svp9, Svp12, Svp13, Svp16 |
| 11a Sampled Value Publishing<br>60Hz, 256 samples/cycle | Svp1, Svp2, Svp3, Svp6, Svp10, Svp11, Svp14    | Svp5, Svp9, Svp12, Svp13, Svp16 |

**CESI S.p.A.**

Address Rubattino 54  
I-20134 Milano - Italy  
Tel: +39 02 21251  
Fax: +39 02 2125440  
e-mail: info@cesi.it  
www.cesi.it

Share capital € 8.550.000 fully deposited  
VAT ID no. and Registered office in Milan IT00793580150  
N. R.E.A. 429222

