

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

**Issued to:**

Siemens Energy Global GmbH & Co. KG  
SE GP SV CD SCI T3000  
Siemensallee 84  
76187 Karlsruhe  
Germany

**For the client system:**

SPPA-T3000 Control System:  
CS3000 HW3 Communication Server  
SPPA-T3000 software version Release 8.2 SP3  
SPPA-T3000 IEC 61850 version 08.3.11  
CS3000 H/W version: 6DU2173-0CA00-0AX0  
CS3000 F/W version: 9.1.7

The client system 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 in substations

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.2 with product's protocol, model and technical issue implementation conformance statements: "IEC61850 Client PICS for SPPA-T3000, version 3.03", "IEC61850 Client MICS for SPPA-T3000, version 3.03" and "IEC61850 Client TICS for SPPA-T3000, version 3.03" and product's extra information for testing: IEC61850 Client PIXIT for SPPA-T3000, version 3.03".


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 (20/24)	12a Direct Control (5/9)
2 Data Sets (6/10)	12b SBO Control (6/11)
2+ Data Set Definition (8/8)	12c Enhanced Direct Control (5/9)
5 Unbuffered Reporting (22/24)	12d Enhanced SBO Control (6/11)
	13 Time Synchronization (3/4)
	14 File Transfer (3/8)

This certificate includes a summary of the test results as carried out at DNV in The Netherlands with UniCA 61850 IED Simulator version 6.1.31 and UniCA 61850 Analyzer 5.34.01. This document has been issued for information purposes only, and the archived DNV verification report No. 10268134-INC 21-2720 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 Siemens Energy. 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, March 22, 2021



**N.A. Heijker**  
Business Leader  
Interoperability of Smart Power Systems

**Issued by:**




**R. Schimmel**  
Verification Manager

<sup>1</sup> 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 Client Conformance Test Procedures version 1.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7 cSrv1, cSrv2, cSrv3, cSrv4, cSrv5, cSrv6, cSrv7, cSrv10, cSrvN1, cSrvN3, cSrvN4, cSrvN5
2: Data Sets		cDs1, cDs2, cDs5, cDs6, cDsN1a, cDsN1b
2+: Data Set Definition		cDs10, cDs11, cDs12, cDs13, cDs14, cDsN10a, cDsN10b, cDsN11
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp1, cRp2, cRp7, cRp12, cRp13b, cRp16, cRp18, cRpN1
12a: Direct Control	cCtl4, cCtl5, cDOns1, cDOns2	cCtl2
12b: SBO Control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3	cCtl2
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	cCtl2
12d: Enhanced SBO Control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	cCtl2
13: Time sync	cTm1, cTmN1	cTm2
14: File transfer	cFt1, cFt3, cFtN1	