IEC 61850 Certificate Level A[1]

No. 74105994-OPE/INC 14-1572

Issued to:
Siemens A.G., IC SG EA
Protection and Substation Control Systems
Wernerwerkdamm 5
D-13623 Berlin
Germany

For the server product:
SIPROTEC 7SC805 Merging Unit
Firmware V04.50
EN100 Communication Module V01.00
Hardware 7SC80542AB963FM0

Issued by:

The server product has not 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 Device Test Procedures version 2.3 with TPCL[2] version 1.7.1, the product's protocol, model and technical issue implementation conformance statements and the extra information for testing: "SIPROTEC Model Implementation Conformance Statement (MICS) According to IEC 61850, Mapping family 7SX8XX, Mapping version 1 revision 0" and "SIEMENS SIPROTEC Device Merging Unit IEC 61850-8-1 IEC 61850-9-2LE IEC 61869-9 PIXIT, PICS, TICS Manual, C53000-G115D-C379-1".

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):
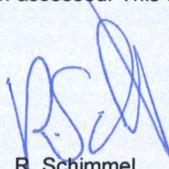
9a	GOOSE Publish	(7/13)
9b	GOOSE Subscribe	11/11)
13	Time Synchronization	(3/5)

This certificate includes a summary of the test results as carried out at DNV KEMA in the Netherlands with UniCA GOOSE Simulator 2.27.01 with test suite 2.27.06 and UniCA 61850 Analyzer 5.28.03. This document has been issued for information purposes only, and the original paper copy of the DNV KEMA report No. 74105994-OPE/INC 14-1571 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV KEMA by Siemens. The manufacturer's production process has not been assessed. This attestation does not imply that DNV KEMA has approved any product other than the specimen tested.

Arnhem, May 13, 2014

M. Adriaensen
Director Intelligent Networks & Communication

R. Schimmel
Certification Manager

[1] Level A - Independent test lab with certified ISO 9001 Quality System
[2] TPCL - Test procedures change list

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.7.1

Conformance Block	Mandatory	Conditional
9a: GOOSE Publish	Gop2, Gop3, Gop4, Gop7, Gop9, Gop10a	Gop10b
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b, Gos4
13: Time Sync	Tm1, Tm2	TmN1