IEC 61850 Conformance Certificate Level B[1]

Issued to: ABB Switzerland Ltd Power Grids CH-5400 Baden/Switzerland	*For the server product:* NSD570 with G3LS GOOSE LAN interface Firmware 1.06 S/N: 10008431-0023 Teleprotection device

Issued by: ABB Switzerland Ltd, Power Grids, SVC Baden

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 TPCL[2] version 1.2.1, the product's protocol, model and technical issue implementation conformance statements: "PICS for NSD570 GOOSE LAN interface G3LS, 1KHW002635 Rev. C", "MICS for NSD570 GOOSE LAN interface G3LS, 1KHW002634 Rev. C", "TICS for NSD570 GOOSE LAN interface G3LS, 1KHW002636 Rev. C" and the extra information for testing: "PIXIT for NSD570 GOOSE LAN interface G3LS, 1KHW002637 Rev. C"

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 (8/13)		13	Time Synchronization (4/7)
9b	GOOSE subscribe (12/14)			

This Certificate includes a summary of the test results as carried out at the SVC Baden in Switzerland with UniCAsim GOOSE Ver 2.27.01 with test suite 2.27.08 and UniCA Analyzer 5.28.03. This document has been issued for information purposes only, and the original paper copy of the SVC Baden report: No. 1KHL050090 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to SVC Baden by ABB Switzerland Ltd. The manufacturer's production process has not been assessed. This certificate does not imply that SVC Baden has approved any product other than the specimen tested.

Baden, 2016-12-12

S.Gerspach
Certification Manager

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Test engineer

1 Level B - Tester with ISO 9001 Quality System
2 TPCL - Test procedures change list

Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 1.0 with TPCL version 1.2.1

Conformance Block		Mandatory	Conditional
9a	GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11	sGop7, sGopN2
9b	GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	
13	Time Synchronization	sTm1, sTm2, sTmN1	sTmN2

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