



IEC 61850 Certificate Level A¹

No. 74101436-MOC/INC 12-02060

Issued to:
ABB AB PPTR/AT
Valhallavägen 2
771 80 Ludvika
Sweden

For the server product:
TEC Server
Monitoring and protection device
Application revision 2.3.0
Communication revision 2.2.0

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 TPCL² version 1.5, the product's protocol, model and technical issue implementation conformance statements: "IEC61850 PICS for TEC Server 2.2.0 Protocol Implementation Conformance Statement, 1ZSE573021-AAB", "IEC61850 MICS for TEC Server 2.2.0 Modelling Implementation Conformance Statement, 1ZSE573021-AAA" and "IEC61850 TICS for TEC Server 2.2.0 TISSUES Implementation Conformance Statement, 1ZSE573021-AAE" and the extra information for testing: "IEC61850 PIXIT for TEC Server 2.2.0 Protocol Implementation eXtra Information for Testing, 1ZSE573021-AAC-IEC61850".

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 (15/24)	5	Unbuffered Reporting (14/19)
2	Data Sets (3/6)	13	Time Synchronization (3/5)

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA 61850 Client simulator 3.25.02 with test suite 3.24.02 and UniCA 61850 Analyzer 4.25.00. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74101436-MOC/INC 12-02059 will prevail.

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

Arnhem, February 22, 2013

M. Adriaansen
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

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Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv8
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp8, Rp9, RpN5
13: Time sync	Tm1, Tm2, TmN1	