



IEC 61850 Certificate Level A¹

International Usersgroup

No. 74102087-MOC/INC 12-02113

Issued to:
Siemens AG
Humboldtstr. 59
90459 Nuremberg
Germany

For the product:
SICAM230 IEC61850 Server Standalone
Version 1.0
Hardware: Fujitsu Lifebook E8010 with
Windows 7 32-Bit Service Pack 1

Issued by:



The product has not shown to be non-conforming to:
IEC 61850-6, 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: "SICAM230 IEC61850 Server Standalone Protocol Implementation Conformance Statement (PICS), version 1.02", "SICAM230 IEC61850 Server Standalone Model Implementation Conformance Statement (MICS), version 1.02" and "SICAM230 IEC61850 Server Standalone Technical Issues Implementation Conformance Statement (TICS), version 1.02" and the extra information for testing: "SICAM230 IEC61850 Server Standalone Protocol Implementation extra Information for Testing (PIXIT), version 1.02".

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) | 5 | Unbuffered Reporting (14/19) |
| 2 | Data Sets (3/6) | 13 | Time Synchronization (4/5) |

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 5.26.01. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74102087-MOC/INC 12-02112 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Siemens. 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, November 15, 2012

M. Adriaensen
Director Intelligent Networks & Communication

R. Schimmel
Certification Manager

1 Level A - Independent test lab with certified ISO 9000 or ISO 17025 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 | Srv6, Srv7, Srv8, SrvN1e, SrvN2, SrvN3 |
| 2: Data Sets | Dset1, Dset10a, DsetN1ae | |
| 5: Unbuffered Reporting | Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4 | Rp5, Rp8, RpN5 |
| 13: Time sync | Tm1, Tm2, TmN1 | TmN2 |