



IEC 61850 Certificate Level A¹

No. 30820095-Consulting 08-1462

Issued to:
Siemens AG
Power Transmission and Distribution
Humboldtstr. 59
90459 Nuremberg, Germany

For the client system:
Siemens SICAM PAS
version V6.00.35



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 with client system's protocol, model and technical issue implementation conformance statements: "SICAM PAS IEC 61850 Client V6.00 PICS E50417-T8976-C410-A1", "SICAM PAS IEC 61850 Client V6.00 MICS E50417-T8976-C409-A1", "SICAM PAS IEC 61850 Client V6.00 TICS E50417-T8976-C408-A1" and extra information for testing: "SICAM PAS IEC61850 Client V6.00, PIXIT E50417-T8976-C411-A3".

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 as defined in the UCA IUG Client Test procedures version 1.0):

1 Basic Exchange (18/23)	12a Direct Control (6/11)
2 Data Sets (3/8)	12c Enhanced Direct Control (7/12)
2+ Data Set Definition (4/12)	12d Enhanced SBO Control (8/15)
4 Setting Group Selection (2/4)	13 Time Synchronization (3/4)
5 Unbuffered Reporting (16/18)	14a Get File Transfer (5/6)
6 Buffered Reporting (20/22)	

This Certificate includes a summary of the test results as carried out at KEMA in Arnhem, the Netherlands with UniCasim Server Simulator version 1.17.01 and UniCA 61850 Analyzer version 4.17.01. The test is based on the UCA IUG "Conformance Test Procedures for Client System with IEC 61850-8-1 interface, version 1.0". This document has been issued for information purposes only, and the original paper copy of the test report: No. 30820095-Consulting 08-1461 will prevail.

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

Arnhem, March 4, 2009

Willem Strabbing
Manager Intelligent Network and Communications

Richard Schimmel
Certification manager

Copyright © KEMA Nederland B.V., Arnhem, the Netherlands. All rights reserved. Please note that any electronic version of this KEMA certificate is provided to KEMA's customer for convenience purposes only. It is prohibited to update or change it in any manner whatsoever, including but not limited to dividing it into parts. In case of a conflict between the electronic version and the original version, the original paper version issued by KEMA will prevail.



Applicable Test Procedures from the UCA IUG “Conformance Test Procedures for Client System with IEC 61850-8-1 interface, version 1.0”

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAss4, cAssN1, cAssN6, cSrv5, cSrvN3	cAssN3, cAssN4, cAssN5, cSrv1, cSrv2, cSrv3, cSrv4, cSrvN1, cSrvN5, cSrvN6
2: Data Sets	cDs5	cDs1, cDs2
2+: Data Set Definition	cDs6, cDsN4	cDs7, cDsN5
4: Setting Group Selection	cSg2, cSgN1	
5: Unbuffered Reporting	cRp2, cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp1, cRp6, cRp7, cRpN1, cRpN4
6: Buffered Reporting	cBr2, cBr3, cBr4, cRp5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBr1, cBr6, cBr7, cBrN1, cBr13, cBrN4
12a: Direct control	cCtl4, cCtlN1, cCtlN2 cDOs1, cDOs2	cCtl2
12c: Enhanced Direct Control	cCtl4, cCtlN1, cCtlN2 cDOes1, cDOes2, cDOesN3	cCtl2
12d: Enhanced SBO control	cCtl4, cCtlN1, cCtlN2 cSBOes1, cSBOes2, cSBOes3, cSBOesN4	cCtl2
13: Time sync	cTm1, cTm2, cTmN1	
14a: Get File transfer	cFt1, cFt2, cFt3, cFtN1, cFtN2	