



# IEC 61850 Certificate Level A<sup>1</sup>

No. 74104586-MOC/INC 13-2236

Issued to:  
Siemens AG  
Infrastructure & Cities  
Humboldtstr. 59  
90459 Nuremberg  
Germany

For the client system:  
SICAM 230  
version 7.00 SP0  
Driver IEC61850-Client version 99  
Hardware: Windows 7



**The client system 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 and UCA IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface, revision 1.1 with TPCL<sup>2</sup> version 1.2 with client system's protocol, model and technical issue implementation conformance statements: "SICAM 230 IEC61850 Client Protocol Implementation Conformance Statement (PICS), version 1.02", "SICAM 230 IEC61850 Client Model Implementation Conformance Statement (MICS), version 1.02", "SICAM 230 IEC61850 Client Technical Issues Implementation Conformance Statement (TICS), version 1.02" and product's extra information for testing: "SICAM 230 IEC61850 Client Protocol 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 (17/22)	12a	Direct Control (5/7)
2	Data Sets (5/9)	12c	Enhanced Direct Control (5/7)
2+	Data Set Definition (4/4)	12d	Enhanced SBO Control (7/9)
5	Unbuffered Reporting (15/18)	13	Time Synchronization (1/4)
6	Buffered Reporting (19/22)	14	File Transfer (5/8)

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA Multi IED Simulator version 3.26.01 and UniCA 61850 Analyzer version 5.27.01 This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74104586-MOC/INC 13-2237 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 attestation does not imply that KEMA has approved any product other than the specimen tested.

Arnhem, June 13, 2013

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Director Intelligent Networks & Communication

R. Schimmel  
Certification Manager

<sup>1</sup> Level A - Independent test lab with certified ISO 9001 Quality System

<sup>2</sup> TPCL - Test Procedure Change List



Applicable Test Procedures from the UCA IUG Conformance Test Procedures for Client System with IEC 61850-8-1 interface, revision 1.1 with TPCL version 1.2

<b>Conformance Block</b>	<b>Mandatory</b>	<b>Conditional</b>
1: Basic Exchange	cAss1, cAss2, cAss3, cAss4, cAssN1, cAssN4, cAssN5, cAssN6	cSrv1, cSrv2, cSrv3, cSrv4, cSrv5, cSrvN1, cSrvN3, cSrvN5, cSrvN6
2: Data Sets		cDs1, cDs2, cDs5, cDsN1a, cDsN1b
2+: Data Set Definition	cDs6, cDsN4	cDs7, cDsN5
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp1, cRp2, cRp7, cRpN1, cRpN4
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBr1, cBr2, cBr7, cBr13, cBrN1, cBrN4
12a: Direct control	cCtl4, cCtlN1 cDOs1, cDOs2	cCtl2
12c: Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	cCtl2
12d: Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	cCtl2 cSBOes4
13: Time sync	cTm1	
14: File transfer	cFt1, cFt2, cFt3, cFtN1, cFtN2	