



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

No. 12141001-OPE/INC 14-1085

Issued to:  
Siemens AG  
IC SG EA PRO  
Humboldtstr. 59  
90459 Nuremberg  
Germany

For the client system:  
SICAM CMIC  
Firmware version ET83 Rev. 01  
Hardware: 6MF21010AB100AA0CC



Issued by:



**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: "Protocol Implementation Conformance Statement for the IEC 61850 Ed.1 Client interface in Siemens SICAM CMIC, DC8-006-2.00, Edition 03.2014 (Issuing date: 2014.03.28)", "Model Implementation Conformance Statement for the IEC 61850 Ed.1 Client Interface in Siemens SICAM CMIC, DC8-005-2.00, Edition 03.2014 (Issuing date: 2014.03.28)", "TISSUES Implementation Conformance Statement (TICS) for the IEC 61850 Ed.1 Client Interface in Siemens SICAM CMIC, DC8-004-2.00, Edition 03.2014 (Issuing date: 2014.03.28)" and product's extra information for testing: "Protocol Implementation extra Information for Testing (PIXIT) for the IEC 61850 Ed. 1 Client Interface in Siemens SICAM CMIC, DC8-007-2.00, Edition 03.2014 (Issuing date: 2014.03.28)".

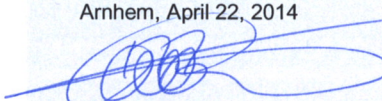
The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test cases):

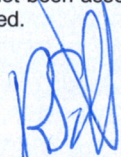
1	Basic Exchange (20/22)	12a	Direct Control (6/7)
2	Data Sets (5/9)	12c	Enhanced Direct Control (6/7)
2+	Data Set Definition (4/4)	12d	Enhanced SBO Control (8/9)
5	Unbuffered Reporting (15/18)	13	Time Synchronization (3/4)

This certificate includes a summary of the test results as carried out at Siemens AG in Austria with UniCA Multi IED Simulator version 3.27.2.1516 and UniCA 61850 Analyzer version 5.27.04. This document has been issued for information purposes only, and the original paper copy of the DNV KEMA report No. 12141001-OPE/INC 14-1095 will prevail.

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

Arnhem, April 22, 2014

  
M. Adriaansen  
Head of Department Operational Excellence

  
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

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAss4, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7 cSrv1, cSrv2, cSrv3, cSrv4, cSrv5, cSrv6, cSrvN1, cSrvN3, cSrvN4, 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
12a: Direct control	cCtl4, cCtlN1 cDOes1, cDOes2	cCtl1, cCtl2
12c: Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	cCtl1, cCtl2
12d: Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	cCtl1, cCtl2 cSBOes4
13: Time sync	cTm1	cTm2, cTmN2