



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

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No. 74101558-OPE/INC 14-0531

Issued to:  
Siemens A.G., IC SG EA  
Protection and Substation Control Systems  
Wernerwerkdamm 5  
D-13623 Berlin  
Germany

For the server product:  
SICAM P855 7KG855  
Power Monitoring Device and  
Power Quality Recorder  
Firmware version V2.10

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 TPCL<sup>2</sup> version 1.7, the product's protocol, model and technical issue implementation conformance statements and the extra information for testing: "Power Monitoring Device and Power Quality Recorder SICAM P850/P855 7KG85xx V2.10 System Manual, E50417-C1040-C482-A4".

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 (16/24)	13	Time Synchronization (3/5)
2	Data Sets (3/6)	14	File Transfer (4/7)
5	Unbuffered Reporting (14/19)		
6	Buffered Reporting (16/21)		

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA 61850 Client Simulator 4.27.03 with test suite 3.27.00 and UniCA 61850 Analyzer 5.27.07. This document has been issued for information purposes only, and the original paper copy of the KEMA report No. 74101558-OPE/INC 14-0532 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, January 28, 2013

M. Adriaansen  
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 procedures change list



International  
Usersgroup

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.7

<b>Conformance Block</b>	<b>Mandatory</b>	<b>Conditional</b>
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv8, SrvN1f
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10
13: Time Sync	Tm1, Tm2, TmN1	
14: File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	

All configuration file and data model tests have been successfully performed for the product variants using the same communication hardware and software version: SICAM P850 7KG850.