



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

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No. 30107073-Consulting 11-0161

Issued to:  
IPCOMM GmbH  
Grundstrasse 15  
91056 ERLANGEN  
GERMANY

For the client system:  
IPCOMM ipConv Gateway  
IEC61850 Client Protocol Stack  
PS\_IEC61850CLIENT\_1 21.01.2011  
Hardware: IPCOMM IPC191V3



**The client system 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 and product's extra information for testing: "IpConv Protocol Stack Conformance Statement IEC 61850 Client Version 1.1".

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 1.1):

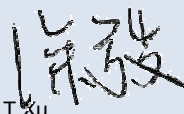
1 Basic Exchange (11/22)	12b SBO Control (6/9)
5 Unbuffered Reporting (15/18)	12c Enhanced Direct Control (4/7)
6 Buffered Reporting (18/22)	12d Enhanced SBO Control (6/9)
12a Direct Control (4/7)	13 Time Synchronization (3/4)

This Certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA Multi IED simulator v1.21.0.5 and UniCA 61850 analyzer v4.21.03. The test is based on the UCA IUG "Conformance Test Procedures for Client System with IEC 61850-8-1 interface, version 1.1". This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 30107073-Consulting 11-0160 will prevail.

The test has been carried out on one single specimen of the client system as referred above and submitted to KEMA by IPCOMM. 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, January 25, 2011

  
M. Adriaensen  
Regional Director Management & Operations Consulting

  
T. Xu  
Test Engineer

1 Level A - Independent Test lab with certified ISO 9000 or ISO 17025 Quality System

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

Conformance Block	Mandatory	Conditional
1: Basic Exchange (*)	cAss1, cAss2, cAss3, cAss4, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7 cSrvN5, cSrvN6
5: Unbuffered Reporting	cRp2, cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp6, cRp7, cRpN1, cRpN4
6: Buffered Reporting	cBr2, cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBrN1 cBr6, cBr7, cBrN4
12a: Direct control	cCtl4, cCtlN1 cDOs1, cDOs2	
12b: SBO control	cCtl4, cCtlN1 cSBOs1, cSBOs2, cSBOs3	cSBOs4
12c: Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	
12d: Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	cSBOes4
13: Time sync	cTm1	cTm2, cTmN1

(\*) The client system doesn't read configuration or description data. The corresponding GetDataValues test cases, cSrv5 and cSrvN3, can't be executed.