IEC 61850 Certificate Level A[1]

No. 30107068-Consulting 11-0196

Issued to:

Ing. Punzenberger COPA-DATA GmbH
Karolingerstr. 7B
5020 Salzburg
Austria

For the client system:

COPA-DATA IEC850 - Driver for
IEC61850 protocol; version 6.51.0.4101
Hardware: HP Compaq dc7800 with
Windows 7 Professional x64

Issued by: **KEMA**

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: "zenon driver manual COPA-DATA IEC850 Driver for IEC61850 protocol v.6.51.0.4101", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in COPA-DATA IEC850 - Driver for IEC61850 protocol with version "6.51.0.4101" and product's extra information for testing: "PIXIT for COPA-DATA IEC61850 Client v.4101".

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 (18/22)	12a	Direct Control (6/7)
2	Data Sets (4/8)	12b	SBO Control (8/9)
2+	Data Set Definition (3/4)	12c	Enhanced Direct Control (6/7)
5	Unbuffered Reporting (15/18)	12d	Enhanced SBO Control (8/9)
6	Buffered Reporting (19/22)	14	File Transfer (6/8)

This Certificate includes a summary of the test results as carried out at KEMA in the Netherlands 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. 30107068-Consulting 11-0195 will prevail.

The test has been carried out on one single specimen of the client system as referred above and submitted to KEMA by COPA-DATA. 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, 14 June, 2011

M. Adriaensen
Regional Director Management & Operations Consulting
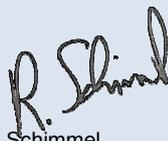
R. Schimmel
Certification Manager

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

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 cSrv5, cSrvN3	cSrv1, cSrv2, cSrv3, cSrv4, Srv6, cSrvN1, cSrvN5, cSrvN6
2:	Data Sets	cDs1, cDs2, cDs5, cDsN1	
2+:	Data Set Definition	cDs6, cDsN4	cDs7
5:	Unbuffered Reporting	cRp2, cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRpN2, cRpN3, cRpN7, cRpN8	cRp1, cRp7, cRpN1, cRpN4
6:	Buffered Reporting	cBr2, cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr12, cBrN2, cBrN3, cBrN7, cBrN8, cBrN9	cBr1, cBr7, cBr13, cBrN1, cBrN4
12a:	Direct control	cCtl4, cCtlN1 cDOns1, cDOns2	cCtl2, cCtl3
12b:	SBO control	cCtl4, cCtlN1 cSBOns1, cSBOns2, cSBOns3	cCtl2, cCtl3 cSBOns4
12c:	Enhanced Direct Control	cCtl4, cCtlN1 cDOes1, cDOes2	cCtl2, cCtl3
12d:	Enhanced SBO control	cCtl4, cCtlN1, cSBOes1, cSBOes2, cSBOes3	cCtl2, cCtl3 cSBOes4
14:	File transfer	cFt1, cFt2, cFt3, cFtN1, cFtN2	cFt5