



IEC 61850 Certificate Level A¹

International Usersgroup

No. 30820255-Consulting 09-0867

Issued to:
AREVA Energietechnik GmbH
Activity Schorch Transformers
Rheinstrasse 73
41065 Mönchengladbach
Germany

For the product:
AREVA MS 3000 Monitoring System
Firmware version 2.36



The product 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 product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) for the IEC 61850 interface in MS3000 Monitoring System, version 1.7", "Model Implementation Conformance Statement for the IEC 61850 interface in MS3000 Monitoring System, version 1.8", "TISSUES Implementation Conformance Statement for the IEC 61850 interface in MS3000 Monitoring System, version 1.2" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) in MS3000 Monitoring System, version 1.6".

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 International Users Group Device Test procedures v2.2):

1 Basic Exchange (18/23)	12a Direct Control (4/11)
2 Data Sets (3/6)	13 Time Synchronization (3/4)
5 Unbuffered Reporting (12/13)	

This Certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCAsim 61850 version 3.18 with test suite 3.18 and UniCA 61850 analyzer 4.18. The test is based on the UCA International Users Group Device Test Procedures version 2.2. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 30820255-Consulting 09-0866 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by Areva. 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, 29 April 2009

W. Strabing
Manager intelligent Networks and Communication

R. Schimmel
Certification manager

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 International Users Group Device Test Procedures version 2.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, Srv8, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp5, RpN5
12a: Direct control	CltN3, CtIN8 DOns1, DOns3	
13: Time sync	Tm1, Tm2, TmN1	