



International Usersgroup

No. 30920191-Consulting 09-0562

Issued to:
Areva T&D
Lyoner Strasse 44-48
D-60528 Frankfurt am Main
Germany

For the product:
AREVA P632
Transformator-Differential Protection Device
Version -611 -204



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: "AREVA 632 Transformator-Differential Protection Device Version -611 -204 PICS, MICS and Address Assignment List", and product's extra information for testing: "AREVA PX3X PX3X/EN PX Version 01D Protocol Implementation Extra Information for Testing (PIXIT) of the IEC 61850 Communication Interface".

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 (19/24)	9a GOOSE Publish (7/11)
2 Data Set (3/6)	9b GOOSE Subscribe (9/10)
5 Unbuffered Reporting (12/18)	13 Time Synchronization (3/5)
	14 File Transfer (4/7)

This Certificate includes a summary of the test results as carried out at KEMA in Arnhem, The Netherlands with UniCAsim 61850 version 3.18.00 with test suite 3.18.00 and UniCA 61850 analyzer 4.18.01. 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. 30920191-Consulting 09-0561 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, 23 March 2009


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Manager Intelligent Networks and Communication


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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, SrvN1e, SrvN3
2: Data Set	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp10
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
13: Time sync	Tm1, Tm2, (TmN1)	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	

Note: TmN1 the time quality is always valid