CENTRAL POWER RESEARCH INSTITUTE

Prof. Sir CV Raman Road, PO Box 8066, Sadashivanagar PO, BANGALORE – 560 080. I N D I A

UCA International Users Group

IEC 61850 Certificate Level A

No. UARC/PL/C0143/2011

Issued to:
M/s.ArevaT&D India Ltd.,
19/1,GST Road,
Pallavaram, Chennai-600043
India

For the product:
M871 Multifunction Recording Transducer
Hardware Version: 02.02.0
Software Version: K14
Serial No.: 688036

Issued by: CENTRAL POWER RESEARCH INSTITUTE, India

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: "PICS version Manual Mx7x IEC 61850 for Bitronics 70 Series-PICS", "MICS version Manual Mx7x IEC 61850 for Bitronics 70 Series-MICS", "TICS version Manual Mx7x IEC 61850 for Bitronics 70 Series-TICS" and products extra information for testing: "PIXIT for testing for ArevaT&D India Ltd., range of Protection IEDs version Manual Mx7x IEC 61850 for Bitronics 70 Series-PIXIT".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases/total number of applicable test cases as defined in the UCA International Users Group Device Test procedures):

1	Basic Exchange (14/24)	9b	GOOSE Subscribe(9/10)
2	Data Sets (3/6)	13	Time Synchronization (3/5)
5	UnBuffered Reporting (10/18)	14	File Transfer (4/7)
9a	GOOSE Publish(4/11)		

This Certificate includes a summary of the test results as carried out at CPRI, Bangalore, India with UniCAsim 61850 version 3.23.02 test system running test suit "61850 Conformance Test v3.23.00" and UniCAsim 61850 analyzer version 4.24.02. The test is based on the UCA International Users Group Device Test Procedures version 2.2b. This document has been issued for information purposes only and the original paper copy of the CPRI report No.: UARC/PL/T0143/2011; Dated:26-03-2012 will prevail.
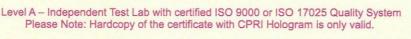
The tests have been carried out on one single specimen of the products as referred above and submitted to CPRI by M/s.ArevaT&D India Ltd., India. The manufacturer's production process has not been assessed. This Certificate does not imply that CPRI has certified or approved any product other than the specimen tested.

Bangalore, 26-03-2012

(Pradish M)
Test Engineer

(V. Arunachalam)
Additional Director

Report Reference No: UARC/PL/T0143/2011; Dated: 26-03-2012

Level A – Independent Test Lab with certified ISO 9000 or ISO 17025 Quality System
Please Note: Hardcopy of the certificate with CPRI Hologram is only valid.

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Applicable Test Cases:

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5, Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	--
2: Data Sets	Dset1, Dset10a, DsetN1ae	--
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, RpN1, RpN2, RpN3, RpN4	--
9a: GOOSE Publish	Gop2, Gop3, Gop4, Gop7	--
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	--
13: Time Synchronization	Tm1, Tm2, TmN1	--
14: File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	--

(Pradish M)
Test Engineer

(V. Arunachalam)
Additional Director

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