CENTRAL POWER RESEARCH INSTITUTE

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UCA International Users Group

IEC 61850 Certificate Level A

No. UARC/SASL/C005/2014

Issued to:
M/s. EASUN REYROLLE LIMITED,
#98, SIPCOT INDUSTRIAL COMPLEX,
HOSUR – 635126
INDIA

For the server product:
MULTI FUNCTION PROTECTION RELAY: F-PRO
Hardware Version: 1.0
Software Version: 1.0
Serial No: HRD1407001

Issued by: CENTRAL POWER RESEARCH INSTITUTE, India

The server product has not shown to be non-conforming to:
IEC 61850 First Edition Parts 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, the UCA International Users Group Device Test Procedures version 2.3 with Test Procedures Change List (TPCL) version 1.7.3, the product's protocol, model and technical issue implementation conformance statements: "PICS version F1.0", "MICS version F1.0", "TICS version F1.0" and the extra information for testing: "PIXIT version F1.0".

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):

1	Basic Exchange (16/24)	9a	GOOSE Publish (10/13)
2	Data Sets (4/6)	9b	GOOSE Subscribe(10/11)
5	UnBuffered Reporting (16/19)	14	File Transfer(6/7)
6	Buffered Reporting (17/21)		

This Certificate includes a summary of the test results as carried out at CPRI, Bangalore, India with UniCAsim 61850 version 4.28.04 test system running test suit "61850 Conformance Test v3.27.00" and UniCAsim 61850 analyzer version 5.27.04. This document has been issued for information purposes only and the original paper copy of the CPRI Report No.: UARC/SASL/T005/2014; Dated: 09-Dec-2014 will prevail.

The tests has been carried out on one single specimen of the products as referred above and submitted to CPRI by M/s.EASUN REYROLLE LIMITED, #98, SIPCOT INDUSTRIAL COMPLEX, HOSUR– 635126 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, 09-Dec-2014

(V. Arunachalam)
Additional Director

(Pradish M)
Test Engineer

Report Reference No: UARC/SASL/T005/2014; Dated: 09-Dec-2014

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 Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.7.3

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5, Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, Srv8, SrvN1f
2: Data Set	Dset1, Dset10a, DsetN1ae	DsetN1b
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12, RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9, RpN5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14, BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, BrN6
9a: GOOSE Publish	Gop2, Gop3, Gop4, Gop7, Gop9, Gop10a	Gop1, Gop6, Gop10b, GopN1
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
14: File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c

(V. Arunachalam)
Additional Director

(Pradish M)
Test Engineer

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