CENTRAL POWER RESEARCH INSTITUTE

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

UCA International Users Group

IEC 61850 Certificate Level A[1]

No.: CPRIBLRSGRL24TC0006

Issued to:
M/s. MEGAWIN SWITCHGEAR PRIVATE LIMITED,
POST BOX. NO. 434,
PERUMAL MALAI ADIVARAM,
NARASOTHIPATTI,
SALEM – 636004, INDIA

For the server product:
MIED12
(MULTIFUNCTION PROTECTION RELAY)
Type.: MIED12
Serial No.: MIED1224060001
Hardware Version: 1.0
Software Version: 2.0

Issued by: CENTRAL POWER RESEARCH INSTITUTE, India

The server product has not been shown to be non-conforming to:

IEC 61850 Edition 2 with Amendment 1 Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1
Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10, the UCA International Users Group Edition 2 with Amendment 1 Server Test Procedures version 1.2 with product's protocol, model and tissues implementation conformance statements: "PICS Version 01; dated 06 September 2024, "MICS Version 01; dated: 06 September 2024", "TICS Version 01; dated: 06 September 2024" and product's extra information for testing: "PIXIT Version 01; dated: 06 September 2024".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test):

1a	Basic Exchange (18/29)	9a	GOOSE publish (10/13)
2	Data Sets (4/7)	9b	GOOSE subscribe (24/27)
2+	Data Set Definition (22/24)	12a	Direct control (6/18)
5	Unbuffered Reporting (23/26)	12d	Enhanced SBO control (12/28)
6	Buffered Reporting (33/36)	13a	Time Synchronization with SNTP (4/8)

This Certificate includes a summary of the test results as carried out at Central Power Research Institute (CPRI), Bangalore in India with Client Simulator UniGrid SA Simulator version 3.0.0 with test suit version Ed2_Server_Ed2TP2.0.6_Ed2.1TP1.2_v3.0.0 and UniCA 61850 analyzer version 6.45.3.0. This document has been issued for information purposes only, and the original paper copy of the CPRI report No.: CPRIBLRSGRL24T0006; dated: 18 September, 2024 will prevail.

The test has been carried out on the specimen of the product as referred above and submitted to CPRI by M/s. MEGAWIN SWITCHGEAR PRIVATE LIMITED, POST BOX. NO. 434, PERUMAL MALAI ADIVARAM, NARASOTHIPATTI, SALEM – 636004, 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; 18 September, 2024

(Dr. Amit Jain)
Additional Director

(Pradish M)
Test Engineer

[1] Level A – Independent Test lab with certified ISO/IEC 17025 Quality System.
UCA International Users Group, P.O. Box 315, Shell Knob, MO 65747, USA

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Applicable Server Test Procedures from the UCA International Users Group Edition 2 Amendment 1 Server Test Procedures version 1.2

Conformance Block	Mandatory	Conditional
1a: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdf, sSrvN4	sAssN6, sSrv15
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
2+: Data Set Definition	sDs2,sDs3,sDs4,sDs5,sDs6,sDs7,sDs8,sDs9,sDs13, sDs14, sDsN1cd, sDsN2, sDsN3, sDsN4, sDsN5, sDsN6, sDsN7, sDsN8, sDsN9, sDsN10	sDs11, sDs12
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRp23, sRpN1, sRpN2, sRpN3, sRpN4, sRpN5, sRpN7, sRpN8, sRpN9	sRp8, sRp10, sRp11, sRp12, sRp13, sRp15
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr16, sBr20, sBr21, sBr22, sBr23, sBr24, sBr25, sBr26, sBr27, sBr28, sBr29, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN7, sBrN8, sBrN9, sBrN10	sBr8, sBr10, sBr11, sBr12, sBr13, sBr15
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11, sGop12	sGop1, sGop6, sGopN1,
9b: GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGos8, sGos9, sGos10, sGos11, sGos12, sGos14, sGos15, sGos20, sGos21, sGos22, sGos23, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6, sGosN7	
12a: Direct control	sCtl5, sCtl10, sDOns1, sDOns2	sCtl13, sCtl16
12d: Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl4, sCtl16
13a: Time sync SNTP	sTm1, sTm2, sTm7, sTmN1	

(Dr. Amit Jain)
Additional Director

(Pradish M)
Test Engineer