# 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.: CPRIBLRSGRL24TC0005**

**Issued to:**

M/s. Minilec (India) Pvt. Ltd.
S.No. 1073/1,2,3, Post - Pirangoot,
Taluka - Mulshi, Dist.- Pune, Maharashtra,
Pin - 412111, INDIA

**For the server product:**

ALARM ANNUNCIATOR
Model: MBAS 0600
Serial No: 0D0001
Hardware Version: 1.0
Software Version: 1.0

**Issued by: CENTRAL POWER RESEARCH INSTITUTE, India**

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

# IEC 61850 Edition 2 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 Edition 2, the UCA International Users Group Edition 2 Server Test Procedures version 2.0.6 with product's protocol, model and technical issue implementation conformance statements: "PICS Version 2.0; dated: 28 November 2023", "MICS Version 2.0; dated: 28 November 2023", "TICS Version 2.0; dated: 28 November 2023" and product's extra information for testing: "PIXIT Version 2.0; dated: 28 November 2023".

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

| | | | | |
|---|---|---|---|---|
| 1 | Basic Exchange (18/26) | | 5 | Unbuffered Reporting (21/23) |
| 2 | Data Sets (3/7) | | 6 | Buffered Reporting (29/33) |
| 2+ | Data Set Definition (24/24) | | 13 | Time sync (3/7) |

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 2.2.1 with test suit version Ed2TP2.0.6_Ed2.1TP1.2_v2.2.1 and UniCA 61850 analyzer version 6.45.2.0. This document has been issued for information purposes only, and the original paper copy of the CPRI report No.: CPRIBLRSGRL24T0005; dated: 22 March, 2024 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to CPRI by M/s. Minilec (India) Pvt. Ltd. S.No. 1073/1,2,3, Post - Pirangoot, Taluka - Mulshi, Dist. - Pune, Maharashtra, Pin - 412111, 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; 22 March, 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

Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.6

| Conformance Block | Mandatory | Conditional |
|---|---|---|
| 1: Basic Exchange | sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdf, sSrvN4 | sAssN6, sSrv10 |
| 2: Data Sets | sDs1, sDs10a, sDsN1ae | |
| 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, sDsN11, sDsN12 |
| 5: Unbuffered Reporting | sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8 | sRp6, sRp7, sRp8, sRp10, sRp11, sRp12, sRp15, sRpN5 |
| 6: Buffered Reporting | sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr16, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBr29, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8 | sBr6, sBr7, sBr8, sBr10, sBr11, sBr12, sBr15 |
| 13 Time sync | sTm1, sTm2, sTmN1 | |

**(Dr. Amit Jain)**
Additional Director

**(Pradish M)**
Test Engineer