

CENTRAL POWER RESEARCH INSTITUTE

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IEC 61850 Certificate Level A¹



No.: CPRIBLRSGRL24TC0001

Issued to:

M/s. Secure Meters Limited,
Udaipur,
Rajasthan, INDIA -313001

For the server product:

APEX 540
Type.: A54
Serial No.: PL0EL040
Hardware Version: 001
Software Version: 0.4

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 1.01; dated: 14 December 2023", "MICS Version 1.01; dated: 14 December 2023", "TICS Version 1.01; dated: 14 December 2023" and product's extra information for testing: "PIXIT Version 1.01; dated: 14 December 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 (22/26)	6 Buffered Reporting (24/33)
2 Data Sets (4/7)	13 Time Synchronization (3/7)
5 Unbuffered Reporting (16/23)	


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.: CPRIBLRSGRL24T0001; dated: 03 January, 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. Secure Meters Limited, Udaipur, Rajasthan – 313003, 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; 03 January, 2024


(Dr. Amit Jain)
Joint 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 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, sSrv6, sSrv9, sSrv10, sSrvN1e, sSrvN3
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp10, 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	sBr10, sBr15
13 Time sync	sTm1, sTm2, sTmN1	



(Dr. Amit Jain)
Joint Director



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Test Engineer