

CENTRAL POWER RESEARCH INSTITUTE



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IEC 61850 Certificate Level A



No.: CPRIBLRMUADSASL21TC0003

Issued to:

M/s. Phase Power Protection Private Limited (A Subsidiary of ERLPhase Power Technologies Limited, Winnipeg, Canada) No.235-O/2, Second Floor, Bommasandra Industrial Area, Phase III. Hosur Road. Bangalore - 560099 INDIA

For the server product:

POWER SYSTEM RECORDER

Model No.: TESLA 4000

Serial No.: TESLA-4005-191101-05

Hardware Version: V2.0 Software Version: V1.2A

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 2.0.5 with product's protocol, model and technical issue implementation conformance statements: "PICS version D04831R01.21, dated 07 September, 2021", "MICS version D04833R01.21, dated 07 September, 2021", "TICS version D04832R01.21, dated 07 September, 2021" and product's extra information for testing: "PIXIT version D04834R01.21, dated 07 September, 2021".

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

Basic Exchange (19/26)

2 Data Sets (4/7)

Unbuffered Reporting (20/23)

Buffered Reporting (28/33)

9a GOOSE Publish (11/13)

9b GOOSE Subscribe (18/20)

13 Time Synchronization (4/7)

14 File Transfer (5/8)

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 1.8.0 with test suit version Ed2_Server_TP_2.0_20211006.3 and UniCA 61850 analyzer version 6.40.01.0. This document has been issued for information purposes only, and the original paper copy of the CPRI report No.: CPRIBLRMUADSASL21T0003; dated 01 November, 2021 will prevail.

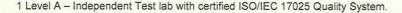
The test has been carried out on one single specimen of the product as referred above and submitted to CPRI by M/s. Phase Power Protection Private Limited, (A Subsidiary of ERLPhase Power Technologies Limited, Winnipeg, Canada), No.235-O/2, Second Floor, Bommasandra Industrial Area, Phase III, Hosur Road, Bangalore - 560099, 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; 01 November, 2021

(Harinath Babu P V) Joint Director



(Pradish M) Test Engineer









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Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdf, sSrvN4	sAssN6, sSrv9, sSrv10
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp8, sRp10, sRp11, sRp12, sRp15, sRp17, 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	sBr8, sBr10, sBr11, sBr12, sBr15, sBr17
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11, sGop12	sGop1, sGop6, sGopN1, sGopN2
9b: GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGos8, sGos9, sGos10, sGos11, sGos12, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	sGos4
13: Time sync	sTm1, sTm2, sTmN1	sTmN2
14: File Transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	

(Harinath Babu P V)
Joint Director

(Pradish M) Test Engineer

