

CENTRAL POWER RESEARCH INSTITUTE

Prof. Sir C V Raman Road, PO Box 8066, Sadashivanagar PO,
BANGALORE 560 080. INDIA



IEC 61850 Certificate Level A¹



No.: CPRIBLRSGRL23TC0001

Issued to:

M/s. GE T&D INDIA LIMITED
19/1, G.S.T. ROAD, PALLAVARAM,
CHENNAI – 600043,
TAMIL NADU, INDIA

For the server product:

FEEDER MANAGEMENT IED
Type: MiCOM P40 Agile Enhanced P14D
Model No.: P14DL1BD3B0030E
Serial No.: 36153218/08/22
Hardware Version: E
Software Version: 03C

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 P40AEnh-PC2-EN-3; dated: 08th July 2022", "MICS version P40AEnh-MC2-EN-3; dated: 08th July 2022", "TICS version P40AEnh-TC2-EN-3; dated: 08th July 2022" and product's extra information for testing: "PIXIT version P40AEnh-PX2-EN-3; dated: 08th July 2022".


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 (24/26)	12a Direct Control (7/19)
2 Data Sets (4/7)	12b SBO Control (12/28)
5 Unbuffered Reporting (20/23)	12c Enhanced Direct Control (8/21)
6 Buffered Reporting (28/33)	12d Enhanced SBO Control (13/29)
9a GOOSE Publish (12/13)	13 Time Synchronization (4/7)
9b GOOSE Subscribe (20/20)	14 File Transfer (5/8)

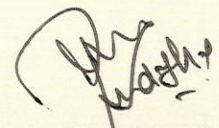
This Certificate includes a summary of the test results as carried out at Central Power Research Institute (CPRI), Bangalore in India with Client Simulator UniGrid SA Simulator version 2.1.0 with test suit version Ed2_Server_TP2.0.5_Amd1TP1.1_v2.1.0 and UniCA 61850 analyzer version 6.41.00.0. This document has been issued for information purposes only, and the original paper copy of the CPRI report No.: CPRIBLRSGRL23T0001; dated 06 January, 2023 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. GE T&D INDIA LIMITED, 19/1, G.S.T. ROAD, PALLAVARAM, CHENNAI – 600043, TAMIL NADU, 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; 06 January, 2023


(Dr. Amit Jain)
Joint Director




(Pradish M)
Test Engineer

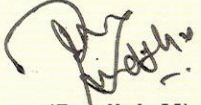
¹ Level A – Independent Test lab with certified ISO/IEC 17025 Quality System.
UCA International Users Group, P.O. Box 315, Shell Knob, MO 65747, USA

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

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcd, sSrvN4	sAssN6, sSrv6, sSrv9, sSrv10, sSrv12, sSrvN1e, sSrvN2, sSrvN3
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, sGop2b, sGop6, sGopN1, sGopN2
9b: GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGos8, sGos9, sGos10, sGos11, sGos12, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	sGos4, sGos6b, sGos13
12a Direct control	sCtl5, sCtl10, sDOs1, sDOs2	sCtl2, sCtl13, sCtl16
12b SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOs1, sSBOs2, sSBOs6	sCtl2, sCtl16, sCtl27
12c Enhanced Direct Control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl2, sCtl13, sCtl16, sCtl26
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl2, sCtl16, sCtl26
13 Time sync	sTm1, sTm2, sTmN1	sTm3
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	


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