

CENTRAL POWER RESEARCH INSTITUTE

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



IEC 61850 Certificate Level A

No.: CPRIBLRMUADSASL22TC0003

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:

Generator Protection System

Type: MULTILIN G60

Model No.: G60U03HKHF8LH6DM8MP67U67W67

Serial No.: AALC21000558 Hardware Version: G60

Software Version: UR Family Version 8.05

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 2.0.3 with product's protocol, model and technical issue implementation conformance statements: "PICS UR Family version 8.05; dated:18th September 2020", "MICS UR Family version 8.05; dated:18th September 2020" and product's extra information for testing: "PIXIT UR Family version 8.05; dated: 18th September 2020".

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 (25/26)

Data Sets (4/7)

4 Setting Group Selection (4/4)

5 Unbuffered Reporting (19/23)

6 Buffered Reporting (27/33)

9a GOOSE Publish (12/13)

9b GOOSE Subscribe (19/20)

12a Direct Control (10/19)

12b SBO Control (17/28)

12c Enhanced Direct Control (12/21)

12d Enhanced SBO Control (18/29)

13 Time Synchronization (5/7)

14 File Transfer (6/8)

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 6.41.00.0. This document has been issued for information purposes only, and the original paper copy of the CPRI report No.: CPRIBLRMUADSASL22T0003; dated 02 May, 2022 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; 02 May, 2022

(V Shivakumar)
Joint Director

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(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 2.0.3

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, sSrv12, sSrv13, sSrvN1e, sSrvN2, sSrvN3
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
4: Setting Group Selection	sSg1, sSg3, sSgN1	sSg11
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	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	sBr8, sBr10, sBr11, sBr12, sBr15
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop9, sGop10, sGop11, sGop12	sGop1, sGop5, 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
12a Direct control	sCtl5, sCtl10, sDOns1, sDOns2	sCti2, sCti7, sCti13, sCti15, sCti16, sCti18
12b SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOns1, sSBOns2, sSBOns6	sCtl2, sCtl4, sCtl6, sCtl7, sCtl15, sCtl16, sCtl18, sCtl27
12c Enhanced Direct Control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl2, sCtl7, sCtl13, sCtl14, sCtl15, sCtl16, sCtl18, sCtl26
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl2, sCtl4, sCtl6, sCtl7, sCtl15, sCtl16, sCtl18, sCtl26
13 Time sync	sTm1, sTm2, sTmN1	sTm3, sTm5
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	sFt3

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