

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 A¹



No.: CPRIBLRSGRL23TC0005

Issued to:

M/s. SIEMENS LTD.,
Verna Plot No - L6,
Verna Industrial Estate,
Opp. Goa - Mumbai highway, Verna,
South Goa - 403722 INDIA

For the server product:

BUSBAR PROTECTION
Type / Model No.: 7SS85 (SIP 5)
Product Code.: P1E544399
Serial No.: BM2212008354
Hardware Version: 7SS85 with CP300
Software Version: V09.40

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 C53000-G5040-C013-D.02 - V9.40 and higher; dated: 24 Jan 2023", "MICS V09.40.01; dated: 28 March 2023", "TICS C53000-G5040-C013-D.02 - V9.40 and higher; dated: 24 Jan 2023" and product's extra information for testing: "PIXIT C53000-G5040-C013-D.02 - V9.40 and higher; dated: 24 Jan 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 (25/26)	9a GOOSE Publish (11/13)
2 Data Sets (4/7)	9b GOOSE Subscribe (21/21)
2+ Data Set Definition (24/24)	12a Direct Control (11/18)
3 Substitution (3/3)	12b SBO Control (18/27)
4 Setting Group Selection (4/4)	12c Enhanced Direct Control (13/20)
4+ Setting Group Definition (13/13)	12d Enhanced SBO Control (19/28)
5 Unbuffered Reporting (22/23)	13 Time Synchronization (6/7)
6 Buffered Reporting (32/33)	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.: CPRIBLRSGRL23T0005; dated: 11 May, 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. SIEMENS LTD., Verna Plot No - L6, Verna Industrial Estate, Opp. Goa - Mumbai highway, Verna, South Goa - 403722, 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; 11 May, 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

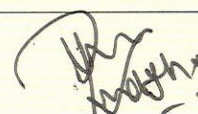
No.: CPRIBLRSGRL23TC0005

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, sSrv11, sSrv12, sSrv13, sSrvN1e, sSrvN3
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
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
3: Substitution	sSub1, sSub2, sSub3	
4: Setting Group Selection	sSg1, sSg3, sSgN1	sSg11
4+: Setting Group Definition	sSg2, sSg4, sSg6, sSg7, sSg8, sSg10, sSg12, sSgN2, sSgN3, sSgN4, sSgN5	sSg5, sSg9
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp6, sRp7, 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	sBr6, sBr7, sBr8, sBr10, sBr11, sBr12, sBr15, sBr17, sBr23, sBr24
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, sGos23, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	sGos4, sGos6b, sGos13
12a Direct control	sCtl5, sCtl10, sDOs1, sDOs2	sCtl2, sCtl7, sCtl13, sCtl15, sCtl16, sCtl17, sCtl28
12b SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOs1, sSBOs2, sSBOs6	sCtl2, sCtl4, sCtl6, sCtl7, sCtl15, sCtl16, sCtl17, sCtl27, sCtl28
12c Enhanced Direct Control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl2, sCtl7, sCtl13, sCtl14, sCtl15, sCtl16, sCtl17, sCtl26, sCtl28
12d Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl2, sCtl4, sCtl6, sCtl7, sCtl15, sCtl16, sCtl17, sCtl26, sCtl28
13 Time sync	sTm1, sTm2, sTmN1	sTm3, sTm4, sTm5
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	



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