

# 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 A<sup>1</sup>



No.: CPRIBLRMUADSASL21TC0002

**Issued to:**

M/s. C&S Electric Ltd.,  
C-60, Wing – A (Opposite Parag Dairy),  
Phase – II, NOIDA – 201305  
Dist: Gautam Budh Nagar,  
UP - INDIA

**For the server product:**

Multifunctional Feeder Motor Transformer Protection Relay  
Model No.: CSEZen-F\_M\_T-XXX  
Serial No.: 2021070101  
Hardware Version: 1.2.0.00.00  
Software Version: ZC0.0.00.55

**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 2.0.2 with product's protocol, model and technical issue implementation conformance statements: "PICS version V2.1, dated 12 July, 2021", "MICS version V2.1, dated 12 July, 2021", "TICS version V1.1, dated 12 July, 2021" and product's extra information for testing: "PIXIT version V10.1, dated 12 July, 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):

1 Basic Exchange (21/26)	9b GOOSE Subscribe (18/20)
2 Data Sets (4/7)	12a Direct Control (5/19)
2+ Data Set Definition (24/24)	12b SBO Control (12/28)
5 Unbuffered Reporting (22/23)	12c Enhanced Direct Control (7/21)
6 Buffered Reporting (29/33)	12d Enhanced SBO Control (14/29)
9a GOOSE Publish (11/13)	13 Time Synchronization (3/7)

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 IEd2\_Server\_TP\_2.0\_20210330.1 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.: CPRIBLRMUADSASL21TC0002; dated 23 July, 2021 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to CPRI by C&S Electric Ltd., C-60, Wing – A (Opposite Parag Dairy), Phase – II, NOIDA – 201305, Dist: Gautam Budh Nagar, UP - 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; 23 July, 2021

  
(Harinath Babu P V)  
Joint Director



  
(Pradish M)  
Test Engineer


<sup>1</sup> Level A – Independent Test lab with certified ISO/IEC 17025 Quality System.




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Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.2

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, sSrv10, 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
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp6, sRp7, sRp8, sRp10, sRp11, sRp12, sRp13, 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	sBr6, sBr7, sBr8, sBr10, sBr11, sBr12, sBr15
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
12a: Direct control	sCtl5, sCtl10, sDOns1, sDOns2	sCtl16,
12b: SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOns1, sSBOns2, sSBOns6	sCtl4, sCtl6, sCtl16
12c: Enhanced Direct Control	sCtl5, sCtl10, sDOes1, sDOes2	sCtl14, sCtl16, sCtl26
12d: Enhanced SBO control	sCtl5, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl4, sCtl6, sCtl16, sCtl26
13: Time sync	sTm1, sTm2, sTmN1	

  
 (Harinath Babu P V)  
 Joint Director

  
 (Pradish M)  
 Test Engineer