

CENTRAL POWER RESEARCH INSTITUTE

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IEC 61850 Certificate ^{Level A}



No. PSD/SASL/1516/C003

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
CSEZen-F_M_T
Hardware Version: 1.2.0.00.00
Software Version: 1.0.02.19.15
Serial No.: CSPC101213005

Issued by: CENTRAL POWER RESEARCH INSTITUTE, India

**The server product has not shown to be non-conforming to:
IEC 61850 First Edition Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1
Communication networks and systems in substations**

The conformance test has been performed according to IEC 61850-10, the UCA International Users Group Server Device Test Procedures version 2.3 with Test Procedures Change List (TPCL) version 1.7.8, the product's protocol, model and technical issue implementation conformance statements: "PICS version 1.01", "MICS version 1.01", "TICS version 1.01" and the extra information for testing: "PIXIT version 1.05".

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

1 Basic Exchange (20/24)	12a Direct Control (3/11)
2 Data Sets (3/6)	12b SBO Control (7/14)
5 UnBuffered Reporting (14/18)	12c Enhanced Direct Control(4/13)
6 Buffered Reporting (15/19)	12d Enhanced SBO Control(10/19)
9a GOOSE Publish (9/13)	13 Time Synchronization (3/5)
9b GOOSE Subscribe(9/11)	

This Certificate includes a summary of the test results as carried out at CPRI, Bangalore, India with UniCAsim 61850 version 4.28.04 test system running test suit "61850 Conformance Test v3.28.00" and UniCA 61850 analyzer version 5.27.04. This document has been issued for information purposes only and the original paper copy of the CPRI Report No.: PSD/SASL/1516/T003; Dated: 16-Sep-2015 will prevail.

The tests has been carried out on one single specimen of the products as referred above and submitted to CPRI by M/s. 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, 16-Sept-2015

(Dr. Amit Jain)
Joint Director



(Pradish M)
Test Engineer

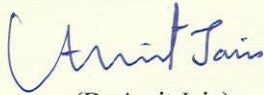
Revision. No.: RPSD/SASL/1516/C003; Dated 30.09.2015

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No. PSD/SASL/1516/C003

Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 2.3 with TPCL version 1.7.8

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5, Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, Srv6, Srv7, Srv8, SrvN1e, SrvN1f, SrvN3
2: Data Set	Dset1, Dset10a, DsetN1ae	--
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, RpN1, RpN2, RpN3, RpN4	Rp7, Rp8, Rp9, Rp10, Rp12, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br8, Br9, BrN1, BrN2, BrN3, BrN4, BrN5	Br7, Br10, Br12, Br14
9a: GOOSE Publish	Gop2, Gop3, Gop4, Gop7, Gop9, Gop10a	Gop1, Gop6, GopN1
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	--
12a: Direct Control	CtlN3, DOns1	CtlN11
12b: SBO Control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4 SBOns2	CtlN11
12c: Enhanced Direct Control	CtlN3, DOes2, DOes5	CtlN11
12d: Enhanced SBO Control	CtlN1, CtlN2, CtlN3, CtlN4, CtlN9, SBOes1, SBOes2, SBOes3	Ctl3, CtlN11
13: Time Synchronization	Tm1, Tm2	TmN1



(Dr. Amit Jain)
Joint Director





(Pradish M)
Test Engineer

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