

# CENTRAL POWER RESEARCH INSTITUTE

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



## IEC 61850 Certificate <sup>Level A</sup>



No. UARC/PL/C0018/2012

**Issued to:**

M/s. Crompton Greaves Limited,  
A-3 MIDC, Ambad,  
Nashik, Maharashtra - 422010  
India

**For the product:**

CG Aegis Series Transformer Protection Relay  
Hardware Version: Aegis HW001  
Software Version: v1.10  
Serial No.: CGT1111001

**Issued by: CENTRAL POWER RESEARCH INSTITUTE, India**

**The product has not shown to be non-conforming to:  
IEC 61850-6, 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 with product's protocol, model and technical issue implementation conformance statements: "PICS version 1.0", "MICS version 1.0", "TICS version 1.0" and products extra information for testing: "PIXIT for testing for Crompton Greaves Limited range of Protection IEDs version 1.0".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases/total number of applicable test cases as defined in the UCA International Users Group Device Test procedures):

1 Basic Exchange (19/24)	9a GOOSE Publish(6/11)
2 Data Sets (5/6)	12a Direct Control (5/12)
2+ Data Set Definition (23/23)	13 Time Synchronization (3/5)
5 UnBuffered Reporting (16/18)	
6 Buffered Reporting(16/20)	

This Certificate includes a summary of the test results as carried out at CPRI, Bangalore, India with UniCASim 61850 version 3.23.02 test system running test suit "61850 Conformance Test v3.23.00", and UniCASim 61850 analyzer version 4.24.02. The test is based on the UCA International Users Group Device Test Procedures version 2.2b. This document has been issued for information purposes only and the original paper copy of the CPRI report No.: UARC/PL/T0018/2012; Dated:29-03-2012 will prevail.

The tests have been carried out on one single specimen of the products as referred above and submitted to CPRI by M/s.Crompton Greaves Limited, Nashik, 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, 29-03-2012

(Pradish M)  
Test Engineer

(V. Arunachalam)  
Additional Director



Report Reference No: UARC/PL/T0018/2012; Dated: 29-03-2012

Level A – Independent Test Lab with certified ISO 9000 or ISO 17025 Quality System  
Please Note: Hardcopy of the certificate with CPRI Hologram is only valid.

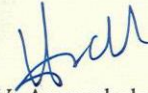


Applicable Test Cases:

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5, Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, SrvN1e, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	DsetN1b, DsetN16
2+:Data Set Definition (SCL-DynDataSet)	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9, DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14, DsetN15	--
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, RpN1, RpN2, RpN3, RpN4	Rp5, Rp6, Rp8, Rp9, RpN5, RpN7
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, BrN1, BrN2, BrN3, BrN4, BrN5	Br6, Br10, BrN7
9a: GOOSE Publish	Gop2, Gop3, Gop4, Gop7	Gop1, GopN1
12a: Direct Control	CtlN3, CtlN8, DOns1, DOns3	Ctl2
13: Time Synchronization	Tm1, Tm2, TmN1	--



(Pradish M)  
Test Engineer



(V. Arunachalam)  
Additional Director

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