

CENTRAL POWER RESEARCH INSTITUTE

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IEC 61850 Certificate Level A¹



No.: CPRIBLRMUADSASL19TC0003

Issued to:

ZIV Automation India Pvt Ltd.,
Global Village Tech Park,
DRC Building, Ground Floor, RVCE Post,
Mylasandra, Bangalore – 560059, INDIA.

For the server product:

PROT. & CONTROL MULTIF. TERMINAL
Model No: IRV
Hardware Version: 7IRV-M4F-230RF8QNM
Software Version: 04.03.06
Serial No.: 605384

Issued by: CENTRAL POWER RESEARCH INSTITUTE, India

**The server product has not been 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 3.2, 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 1.01".


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 (22/25)	9b GOOSE Subscribe(10/11)
2 Data Sets (3/6)	12a Direct Control (5/11)
4 Setting Group Selection (3/3)	12b SBO Control (7/14)
4+ Setting Group Definition (7/7)	12c Enhanced Direct Control (7/13)
5 UnBuffered Reporting (16/18)	12d Enhanced SBO Control (11/19)
6 Buffered Reporting (23/27)	13 Time Synchronization (4/5)
9a GOOSE Publish (11/12)	14 File Transfer (6/7)


This Certificate includes a summary of the test results as carried out at CPRI, Bangalore in India with UniCASim 61850 version 4.31.02.5461 test system with test suit "61850 Conformance Test TP 3.03 v3.31.00" and UniCA 61850 Analyzer version 5.34.01.0. This document has been issued for information purposes only and the original paper copy of the CPRI Report No.: CPRIBLRMUADSASL19T0003; Dated: 11 February, 2019 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.ZIV Automation India Pvt Ltd., Global Village Tech Park, DRC Building, Ground Floor, RVCE Post, Mylasandra, Bangalore – 560059, INDIA. The manufacturer's production process has not been assessed. This Certificate does not imply that CPRI has approved any product other than the specimen tested.

Bangalore; 11 February, 2019


(Harinath Babu P V)
Joint Director





(Shivakumar V)
Joint Director


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Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 3.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, AssN6, Srv6, Srv7, Srv8, SrvN1e, SrvN1f, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
4: Setting Group Selection	Sg1, SgN1a, Sg3	
4+: Setting Group Definition	Sg2, Sg4, SgN1b, SgN2, SgN3, SgN4, SgN5	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9, RpN1, RpN2, RpN3, RpN4, RpN8	Rp5, Rp8, Rp10, Rp11, Rp12, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br20, Br21, Br22, Br25, Br26, Br27, Br28 BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	Br5, Br8, Br10, Br11, Br12
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop9, Gop10a	Gop1, Gop6, Gop7, Gop10b, GopN1, GopN2
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtlN3, DOns1	Ctl2, Ctl7, DOns3
12b: SBO control	CtlN1, CtlN2, CtlN3, CtlN4 SBOns2	Ctl2, Ctl7
12c: Enhanced Direct Control	CtlN3, DOes2, DOes5	Ctl2, Ctl7, CtlN6, CtlN8
12d: Enhanced SBO control	CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	Ctl2, Ctl7, CtlN6
13: Time sync	Tm1, Tm2	Tm3, TmN1
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c


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