



IEC 61850 Certificate Level A¹

International Usersgroup

No. 30107055-Consulting 10-1651

Issued to:
ZIV P+C
Parque Tecnológico, Building 210
48170 Zamudio (Bizkaia)
Spain

For the product:
ZIV DBN
Version SO 2.85
BOOT 3.8
IRV-97EA
IEC 5.46R



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 DBN 0.0", "MICS DBC 0.0", "TICS DBN 0.0" and product's extra information for testing: "PIXIT DBN 0.1".

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 as defined in the UCA International Users Group Device Test procedures v2.2):

1 Basic Exchange (20/24)	9a GOOSE Publish (8/12)
2 Data Sets (3/6)	9b GOOSE Subscribe (9/10)
5 Unbuffered Reporting (15/18)	12c Enhanced Direct Control (5/13)
6 Buffered Reporting (17/20)	13 Time Synchronization (5/5)
	14 File Transfer (6/7)

This Certificate includes a summary of the test results as carried out at ZIV in Spain with UniCAsim 61850 version 3.21.01 with test suite 3.21.00 and UniCA 61850 analyzer 4.21.02. The test is based on the UCA International Users Group Device Test Procedures version 2.2. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 30107055-Consulting 10-1650 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by ZIV. The manufacturer's production process has not been assessed. This Certificate does not imply that KEMA has certified or approved any product other than the specimen tested.

Arnhem, 20 October 2010

W. Strabbing
Manager Intelligent Networks and Communication

R.S. Massink
Test Engineer

1 Level A - Independent Test lab with certified ISO 9000 or ISO 17025 Quality System

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Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	Srv6, Srv7, Srv8, SrvN1e, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9, RpN5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, Br11, BrN6
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1, Gop6, Gop9, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12c: Enhanced Direct Control	CltN3, CltN8, DOes2, DOes5	Clt2
13: Time sync	Tm1, Tm2, TmN1	Tm3, TmN2
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c