



IEC 61850 Certificate Level A¹

International Usersgroup

No. 30720620-Consulting 08-0558

Issued to:
ZIV P+C
Parque Tecnológico, 210
48170 Zamudio
Spain

For the product:
#RTV-D
Type: 6RTV-D3N-220301QB
OS version 2.0
Application version 4.6



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 of the IEC 61850 communication interface in #RTV-D, revision 0.2", "MICS of the IEC 61850 communication interface in #RTV-D, revision 0.0", "Technical Issues Conformance Statement (TICS) of the IEC 61850 communication interface in #RTV-D, revision 0.0" and product's extra information for testing: "PIXIT of the IEC 61850 communication interface in #RTV-D, revision 0.6".

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 v1.1):

1 Basic Exchange (20/23)	9b GOOSE Subscribe (9/9)
2 Data Sets (2/5)	12a Direct Control (4/11)
5 Unbuffered Reporting (12/13)	12c Enhanced Direct Control (4/11)
6 Buffered Reporting (14/15)	13 Time Synchronization (3/4)
9a GOOSE Publish (5/11)	14 File Transfer (3/6)

This Certificate includes a summary of the test results as carried out at KEMA in The Netherlands with UniCAsim 61850 version 3.16.00 with test suite 3.16.06 and UniCA 61850 analyzer 4.15.00. The test is based on the UCA International Users Group Device Test Procedures version 1.1. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 30720620-Consulting 07-0557 will prevail.

The test has been carried out on one single specimen of the products as referred above and submitted to KEMA by ZIV P+C. 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, March 19, 2008

W. Strabbing
Manager Intelligent Networks and Communication

E.F. Melenhorst
Senior Test Engineer

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

Copyright © KEMA Nederland B.V., Arnhem, the Netherlands. All rights reserved. Please note that any electronic version of this KEMA certificate is provided to KEMA's customer for convenience purposes only. It is prohibited to update or change it in any manner whatsoever, including but not limited to dividing it into parts. In case of a conflict between the electronic version and the original version, the original paper version issued by KEMA will prevail.



International
Usersgroup

Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 1.1

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, DsetN1ae	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7 RpN1, RpN2, RpN3, RpN4	Rp5, RpN5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, BrN6
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7	Gop1
9b: GOOSE subscribe	Gos1, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	
12a: Direct control	CltN3, CtIN8 DOns1, DOns3	
12c: Enhanced Direct Control	CltN3, CtIN8 DOes2, DOes5	
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, FtN1ab	