



IEC 61850 Certificate Level A¹

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No. 74101841-MOC/INC 13-3317

Issued to:
ZIV GRID Automation S.L.
Parque Tecnológico, Edificio 210 - 48170
Zamudio, Bizkaia
Spain

For the server product:
IRX
61850 interface version 6.5B
Application version 3.24.2.26696

Issued by:



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 Device Test Procedures version 2.3 with TPCL² version 1.5, the product's protocol, model and technical issue implementation conformance statements: Protocol Implementation Conformance Statement for the IEC 61850 interface in 2IRX-*3* from ZIV Aplicaciones y Tecnología Version 0.0, Model Implementation Conformance Statement for the IEC 61850 interface in 2IRX-*3* from ZIV Aplicaciones y Tecnología Version 0.0 and TISSUES Implementation Conformance Statement for the IEC 61850 interface in 2IRX-*3* from ZIV Aplicaciones y Tecnología Version 0.0 and the extra information for testing: Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in 2IRX-*3* from ZIV Aplicaciones y Tecnología Version 0.0.

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 (21/24)	9a	GOOSE Publish (8/13)
2	Data Sets (3/6)	9b	GOOSE Subscribe (10/11)
4	Setting Group Selection (3/3)	12c	Enhanced Direct Control (6/13)
4+	Setting Group Definition (7/7)	13	Time Synchronization (4/5)
5	Unbuffered Reporting (15/19)	14	File Transfer (6/7)
6	Buffered Reporting (18/21)		

This certificate includes a summary of the test results as carried out at ZIV GRID Automation S.L. in Spain with UniCA 61850 Client simulator 4.26.04 with test suite 3.26.00 and UniCA 61850 Analyzer 5.27.04. This document has been issued for information purposes only, and the original paper copy of the KEMA report No. 74101841-MOC/INC 13-3316 will prevail.

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

Arnhem, September 25, 2013


M. Adriaensen
Director Intelligent Networks & Communication


R. Schimmel
Certification Manager

¹ Level A - Independent test lab with certified ISO 9001 Quality System

² TPCL - Test procedures change list

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Applicable Test Procedures from the UCA International Users Group Device Test Procedures version 2.3 with TPCL version 1.5

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, 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, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp8, Rp9, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br10, Br11, BrN6
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop10a	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12c: Enhanced Direct Control	CtIN3, CtIN8 DOes2, DOes5	CtI2, CtI7
13: Time sync	Tm1, Tm2, TmN1	Tm3
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c