



# IEC 61850 Certificate Level A<sup>1</sup>

No. 74102036-MOC/INC 12-01955

Issued to:  
Siemens Protection Devices Limited  
North Farm Road, Hebburn  
Tyne & Wear, NE31 1LX  
United Kingdom

For the product:  
Reyrolle 7SR23  
High Impedance Protection Relay  
Firmware Version: 7b  
EN100 V04.08



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, the UCA International Users Group Device Test Procedures version 2.3 with TPCL<sup>2</sup> version 1.5, the product's protocol, model and technical issue implementation conformance statements: "7SR23 IEC 61850 Protocol Implementation Conformance Statement (PICS), document issue 2012/10", "7SR23 IEC 61850 Model Implementation Conformance Statement (MICS), document issue 2012/07" and the extra information for testing: "7SR23 Protocol Implementation Extra Information for Testing (PIXIT), document issue 2012/10".

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 (18/24)	9a	GOOSE Publish (8/13)
2	Data Sets (3/6)	9b	GOOSE Subscribe (10/11)
2+	Data Set Definition (23/23)	12a	Direct Control (5/12)
4	Setting Group Selection (3/3)	12c	Enhanced Direct Control (5/13)
5	Unbuffered Reporting (16/19)	13	Time Synchronization (3/5)
6	Buffered Reporting (18/21)	14	File Transfer (4/7)
6+	Enhanced buffered reporting (10/12)		

This certificate includes a summary of the test results as carried out at Siemens in United Kingdom with UniCA 61850 Client simulator 3.25.02 with test suite 3.24.02c and UniCA 61850 Analyzer 4.25.00. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74102036-MOC/INC 12-01954 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by Siemens. 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, October 26, 2012

M. Adriaansen  
Director Intelligent Networks & Communication

R. Schimmel  
Certification Manager

- 1 Level A - Independent test lab with certified ISO 9000 or ISO 17025 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, SrvN1e, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
2+: Data Set Definition	Dset2, Dset3, Dset4, Dset5, Dset6, Dset7, Dset8, Dset9  DsetN1cd, DsetN2, DsetN3, DsetN4, DsetN5, DsetN6, DsetN7, DsetN8, DsetN9, DsetN10, DsetN11, DsetN12, DsetN13, DsetN14, DsetN15	
4: Setting Group Selection	Sg1, SgN1a	Sg3
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp6, Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br6, Br10, Br11
6+: Enhanced buffered reporting	BrE1, BrE2, BrE3, BrE6, BrE7, BrE8, BrE9, BrE10, BrE11	BrE12
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop10a	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtlN3, CtlN8 DOns1, DOns3	CtlN11
12c: Enhanced Direct Control	CtlN3, CtlN8 DOes2, DOes5	CtlN11
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	