

IEC 61850 Certificate Level B¹



Issued to: Schneider Electric Building 6B/C, F Block, No.188, Xinjun Ring Rd Pujiang Hi-Tech Park, Minhang District, Shanghai, China

Issued by: Schneider Electric China CTC Validation Laboratory No. VAL_P841_A0C

For the product: Schneider MiCOM P841 Type: Multifunction Line Terminal IED Software Version: A0C Hardware Suffix: K

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 TISSUE implementation conformance statements: "Protocol Implementation Conformance Statement (PICS), version A42", "Model Implementation Conformance Statement (MICS), version A42", "IEC61850 Tissues Implementation Statement (TICS), version A42", and extra information for testing "Protocol Implementation EXTRA INFORMATION FOR TESTING (PIXIT), version A42".

The following IEC 61850 conformance blocks are 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 Version 2.3 with TPCL² version 1.5):

1 2 4 5	Basic Exchange (22/24) Data Sets (3/6) Setting Group Selection (2/3) Unbuffered Reports (14/19)	12a 12b 12c 12d	Direct Control (5/12) SBO Control (6/14) Enhanced Direct Control (5/13) Enhanced SBO Control (10/19)		
6	Buffered Reports (16/21)	13	Time Synchronization (4/5)		
9a	GOOSE Publish (12/13)	14	File Transfer (6/7)		
9b	GOOSE Subscribe (10/11)				

Schneider Electric grants this Certificate on account of tests performed at the Schneider Electric Infrastructure Business CTC's Validation Laboratories in Shanghai China, on 08/19/2013, with UniCASim 61850 ver 4.27.04 simulating an IEC 61850 client and the UniCA Analyzer ver 5.27.04. The tests are based on the UCA International Users Group Device Test Procedure Version 2.3 with TPCL version 1.5. This certificate has been issued for information purposes only and the original copy of the Schneider report: No. Schneider_VAL_P841_A0C_RPT_01, on 08/20/2013 will prevail.

The tests have been carried out on one single specimen of the above-mentioned products, submitted by *Schneider Electric*. The certificate does not include an assessment of the manufacturer's production process. Conformity of his production process or any other product than the specimen tested by CTC Validation Laboratories is not the responsibility of Schneider Electric CTC Validation Laboratory.

Baohua WANG CTC Validation Manager

T & A Shanghai, 2013-08-23 Xiaohui WANG Test Engineer

¹ Level B – Tester with ISO 9001 Quality System

² TPCL – Test Procedure 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	Mandatory	Conditional	
Block			
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4,	AssN6	
	AssN5	Srv6, Srv7, Srv8, Srv9,	
	Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd,	Srv10, SrvN1e, SrvN1f	
	SrvN4		
2: Data Sets	Dset1, Dset10a, DsetN1ae		
4: Setting Group	Sg1, SgN1a		
Selection			
5: Unbuffered	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12,	Rp5, Rp8, RpN5	
Reporting	RpN1, RpN2, RpN3, RpN4		
6: Buffered	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12,	Br5, Br10	
Reporting	Br14, BrN1, BrN2, BrN3, BrN4, BrN5		
9a: GOOSE	Gop2, Gop3, Gop4, Gop7, Gop10a	Gop1, Gop5, Gop6,	
publish		Gop8, Gop9, Gop10b,	
		GopN1	
9b: GOOSE	Gos1a, Gos2, Gos3, GosN1, GosN2,	Gos1b	
subscribe	GosN3, GosN4, GosN5, GosN6		
12a: Direct control	CtIN3, CtIN8, DOns1, DOns3	CtIN11	
12b: SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, SBOns2		
12c: Enhanced	CtIN3, CtIN8	CtIN11	
Direct control	Does2, Does5		
12d: Enhanced	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9,	CtIN11	
SBO control	SBOes1, SBOes2, SBOes3		
13: Time sync	Tm1, Tm2, TmN1	Tm3	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c	