



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



No. Schneider\_VAL\_SepamM87\_version8.04\_Ed2

Issued to:  
Schneider Electric  
Energy Automation Activity  
Usine M4, 38050 Grenoble Cedex - France

For the product:  
Schneider Sepam M87 version 8.04 with ACE850  
version 2.2

Issued by:  
Schneider Electric  
IEC61850 Laboratory - China

## The server product has not been shown to be non-conforming to: **IEC 61850 Edition 2 Parts 6, 7-1, 7-2, 7-3, 7-4 and 8-1** Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10 Edition 2, the UCA International Users Group Edition 2 Server Test Procedures version 1.0 with TPCL version 1.0 with product's protocol, model and technical issue implementation conformance statements: "Sepam IEC61850 communication for Sepam series 20/40/60/80 User's manual 01/2013 rev.2 (Ref. SEPED306024EN)" and product's extra information for testing: "Sepam IEC61850 conformance statements (Edition 2.0) PIXIT (Ref. SEPED306024EN-addendum)".

The following IEC 61850 conformance blocks have been tested with a positive result (number of relevant and executed test cases / total number of test):

1	Basic Exchange (20/26)	9a	GOOSE Publish (12/13)
2	Data Sets (4/7)	9b	GOOSE Subscribe (13/14)
4	Setting Group Selection (4/6)	12a	Direct Control (6/20)
5	Unbuffered Reports (18/20)	12d	Enhanced SBO Control (13/28)
6	Buffered Reports (25/29)	13	Time Synchronization (5/7)
7	Logging (12/13)	14	File Transfer (5/8)

This Certificate includes a summary of the test results as carried out at Schneider Electric IEC61850 lab with client simulator UniCASim 61850 version 4.27.04 with test suite version 3.27.09 and analyzer UniCA version 5.27.06. This document has been issued for information purposes only, and the original paper copy of the Schneider Electric IEC61850 lab report: No. Schneider\_VAL\_Sepam60\_80\_version8.04\_RPT\_01 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to Schneider Electric IEC61850 lab by Schneider Electric site M4 in France. The manufacturer's production process has not been assessed. This certificate does not imply that Schneider Electric IEC61850 lab has certified or approved any product other than the specimen tested.

Shanghai, November 03, 2014

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IED Validation Manager

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<sup>1</sup> Level B – Test lab at least following ISO 9001

<sup>2</sup> Test Procedure Change List



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Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 1.0 with TPCL version 1.0

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrvN1abcd, sSrvN4	sAssN6, sSrv8, sSrv10, sSrv12, sSrvN1f, sSrvN3
2: Data Sets	sDs1, sDs10a, sDs15, sDsN1ae	
4: Setting Group Selection	sSg1, sSg3, sSg11, sSgN1	
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp9, sRp14, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp5, sRp8, sRp10, sRp11, sRp12, sRp13, sRpN5
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr9, sBr14, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8	sBr5, sBr8, sBr10, sBr11, sBr12, sBr13
7: Logging	sLog2, sLog3, sLog4, sLog5, sLog6, sLog9, sLog11, sLog12, sLogN1, sLogN2	sLog7, sLog8
9a: GOOSE publish	sGop2a, sGop3, sGop4, sGop7, sGop9, sGop10, sGop11	sGop1, sGop5, sGop6, sGopN1, sGopN2
9b: GOOSE subscribe	sGos1, sGos2, sGos3, sGos5, sGos6a, sGos7, sGosN1, sGosN2, sGosN3, sGosN4, sGosN5, sGosN6	sGos6b
12a Direct control	sCtl5, sCtl10, sCtl14, sDOns1, sDOns2	sCtl16
12d Enhanced SBO control	sCtl5, sCtl6, sCtl8, sCtl9, sCtl10, sCtl11, sCtl25, sSBOes1, sSBOes2, sSBOes6, sSBOes8	sCtl16, sCtl26
13 Time sync	sTm1, sTm2, sTmN1	sTm3, sTmN2
14 File transfer	sFt1, sFt2ab, sFt4, sFt5, sFtN1ab	