

IEC 61850 Conformance Certificate Level B

Issued to:

ABB Switzerland Ltd
Bruggerstrasse 72
CH-5400 Baden

For the product:

REB500Sys
Software Version V7.60

Issued by: ABB Switzerland Ltd, Power Systems, SVC Baden

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 tests have been performed according to IEC 61850-10 with product's protocol and model implementation conformance statements: "IEC61850 Conformance Statement for REB500/REB500sys Version V7.60 PICS and MICS "(1KHL500478), "TISSUES Implementation Conformance Statement (TICS) of the IEC 61850 communication interface in REB500/REB500sys - V7.60"(1KHL500485) and the related extra information for testing: " Protocol implementation extra information for testing (PIXIT) of the IEC 61850 communication interface in REB500/REB500sys - V7.60" (1KHL500477).

The following IEC 61850 conformance blocks have been tested with successful results (number of relevant and executed test cases / total number of test cases as defined in the UCA International Users Group Device Test procedures v2.2):

1	Basic Exchange (14/24)	6	Buffered Reports (14/20)
2	Data Sets (3/6)	12a	Direct Control (6/12)
4	Setting Group Selection (2/3)	13	Time Synchronization (4/5)
5	Unbuffered Reports (11/18)	14	File Transfer (5/7)

SVC grants this Certificate on account of successful tests performed at the SVC Baden, Switzerland.

These tests have been performed with UniCASim 61850 version 3.19.02 test system running test suite "61850 Conformance Test v3.19.00", UniCA 61850 analyzer version 4.20.01.

The test is based on the UCA International Users Group Device Test Procedures version 2.2.

The results are described in SVC report: "IEC61850 Conformance Report REB500Sys v7.60" (1KHL050029).

The tests have been carried out on one single specimen of the above-mentioned products, submitted by ABB Switzerland.

The Certificate does not include an assessment of the manufacturer's production process. Conformity of his production process with the specimen tested by SVC Baden is not the responsibility of SVC.

Baden, 2011-08-24



S. Gerspach
SVC Manager



Ch. Zehnder
Test engineer

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Page 1/2

Performed test cases:

Conformance Block	Mandatory	Conditional
1 Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN3, AssN4, AssN5, Svr1, Svr2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4.	
2 Data Sets	Dset1, Dset10a, DsetN1ae	
4 Setting Group Selection	Sg1, SgN1a	
5 Unbuffered Reports	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10 RpN1, RpN2, RpN3, RpN4	Rp5
6 Buffered Reports	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12 BrN1, BrN2, BrN3, BrN4, BrN5	Br5
12a Direct Control	CtlN3, CtlN8 DOns1, DOns3	Ctl2, Ctl7
13 Time Synchronization	Tm1, Tm2, TmN1	TmN2
14 File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c