



IEC 61850 Certificate Level B¹



No. Schneider_VAL_BMRZ-152-KSZ_version-2.0.1_Ed2_Certificate

Issued to:
"MECHANOTRONIKA" LTD
Bld. 23 A, str. Pionerstroya
St. Petersburg, 198206 - Russia

For the server product:
BMRZ-152-KSZ
Software version: 2.0.1
Hardware version: 648228.039-02

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: "BMRZ-152-KSZ_PICS_Ed2 version 2.01", "BMRZ-152-KSZ_MICS_Ed2 version 2.01" and "BMRZ-152-KSZ_TICS_Ed2 version 2.01" and product's extra information for testing: "BMRZ-152-KSZ_PIXIT_Ed2 version 2.01".

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 (22/26) | 9a | GOOSE Publish (12/13) |
| 2 | Data Sets (4/7) | 9b | GOOSE Subscribe (12/14) |
| 2+ | Data Set Definition (22/24) | 13 | Time Synchronization (5/7) |

This Certificate includes a summary of the test results as carried out at Schneider Electric IEC61850 lab with client simulator UniCASim 61850 verion 4.28.04 with test suite version 3.27.12 and analyzer UniCA version 5.28.03. This document has been issued for information purposes only, and the original paper copy of the Schneider Electric IEC61850 lab report: No. Schneider_VAL_BMRZ-152-KSZ_version-2.0.1_Ed2_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 MECHANOTRONIKA in Russia. 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 25, 2014

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IED Validation Manager

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Senior IEC61850 test Engineer

¹ Level B – Test lab with certified ISO 9001 Quality System

² 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, sSrv6, sSrv8, sSrv10, sSrv12, sSrvN1e, sSrvN1f, sSrvN3 |
| 2: Data Sets | sDs1, sDs10a, sDs15, sDsN1ae | |
| 2+: Data Set Definition | sDs2, sDs3, sDs4, sDs5, sDs6, sDs7, sDs8, sDs9, sDs11, sDs12, sDs13, sDs14, sDsN1cd sDsN2, sDsN3, sDsN4, sDsN5, sDsN6, sDsN7, sDsN8, sDsN9, sDsN10 | |
| 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 | |
| 13 Time sync | sTm1, sTm2, sTmN1 | sTm3, sTmN2 |