



IEC 61850 Certificate Level A¹

No. 74104415-MOC/INC 13-2118

Issued to:
3AO-MP3
2nd Kabelnaya str., 2, build.3,
office 79-82,
111024, Moscow
Russia

For the server product:
MP3-3 L2 (MP3-3 Л2)
SW version 2.015



The server product has not shown to be non-conforming to:
IEC 61850 First Edition Parts 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 TPCL² version 1.5, the product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in MP3-3 Л2, MP3-3 ДЗШ, MP3-3 Л1, MP3-3 Д, MP3-3 ДЗТ, MP3-3 АУВ, 2.015", "MICS for MP3-3 Л2 of relays Model Implementation Conformance Statement" and "TISSUES Implementation Conformance Statement for the IEC 61850 interface in MP3-3 Л2, MP3-3 ДЗШ, MP3-3 Л1, MP3-3 Д, MP3-3 ДЗТ, MP3-3 АУВ, 2.015" and the extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 interface in MP3-3 Л2, MP3-3 ДЗШ, MP3-3 Л1, MP3-3 Д, MP3-3 ДЗТ, MP3-3 АУВ, 2.015".

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 (21/24)	9a	GOOSE Publish (7/13)
2	Data Sets (3/6)	9b	GOOSE Subscribe (10/11)
4	Setting Group Selection (3/3)	12a	Direct Control (5/12)
4+	Setting Group Definition (7/7)	12b	SBO Control (7/14)
5	Unbuffered Reporting (15/19)	12d	Enhanced SBO Control (10/19)
6	Buffered Reporting (17/21)	13	Time Synchronization (3/5)
6+	Enhanced Buffered Reporting (9/12)	14	File Transfer (6/7)

This certificate includes a summary of the test results as carried out at KEMA in the Netherlands with UniCA 61850 Client simulator 4.27.03 with test suite 3.26.03 and UniCA 61850 Analyzer 5.26.04. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74104415-MOC/INC 13-2117 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by 3AO-MP3. 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, May 16, 2013

M. Adriaansen
Director Intelligent Networks & Communication

R. Schimmel
Certification Manager

- 1 Level A - Independent test lab with certified ISO 9001 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, Srv8, SrvN1e, SrvN1f, SrvN2, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
4: Setting Group Selection	Sg1, SgN1a	Sg3
4+: Setting Group Definition	Sg2, Sg4, SgN1b, SgN2, SgN3, SgN4, SgN5	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp6, Rp8, Rp9, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br6, Br10, Br11
6+: Enhanced buffered reporting	BrE1, BrE2, BrE3, BrE6, BrE7, BrE8, BrE9, BrE10, BrE11	
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop10a	Gop1, Gop10b
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtlN3, CtlN8 DOns1, DOns3	CtlN11
12b: SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, SBOs2	CtlN11
12d: Enhanced SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, CtlN9 SBOes1, SBOes2, SBOes3	CtlN11
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c

All configuration file and data model tests have been successfully performed for the product variants using the same hardware and software version: MP3-3 AUV (MP3-3 AYB), MP3-3 D (MP3-3 Д), MP3-3 DZSH (MP3-3 ДЗШ), MP3-3 DZT (MP3-3 ДЗТ) and MP3-3 L1 (MP3-3 Л1).