

IEC 61850 Certificate Level A1

Page 1/2

Issued to:

TOSHIBA Corporation
Power Systems Protection and Control
Fuchu Complex 1, TOSHIBA-Cho
Fuchu-Shi, Tokyo, 183-8511
Japan

No. 74101892-MOC/INC 12-01363

For the product: GBU200

Main software: GS2BUIM1-01-02 IEC61850 firmware: G2M85001E

Issued by:



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, 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: "IEC61850 ACSI Conformance Statement for G2 series IED Ver.0.3", "IEC61850 Model Implementation Conformance Statement (MICS) GBU200 ver.0.1" and "IEC61850 Tissues conformance statement (TICS) of the IEC 61850 communication interface in G2 series IED ver.0.2" and the extra information for testing: "Protocol implementation extra information for testing (PIXIT) of the IEC 61850 communication interface in G2 series IED ver.0.3".

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 (20/24)

2 Data Sets (3/6)

4 Setting Group Selection (3/3)

5 Unbuffered Reporting (16/19)

6 Buffered Reporting (18/21)

9a GOOSE Publish (8/13)

9b GOOSE Subscribe (10/11)

12a Direct Control (7/12)

12b SBO Control (9/14)

12c Enhanced Direct Control (7/13)

12d Enhanced SBO Control (12/19)

13 Time Synchronization (3/5)

14 File Transfer (4/7)

This certificate includes a summary of the test results as carried out at TOSHIBA in Japan with UniCA 61850 client simulator version 3.25.02 with test suite 3.24.02b and UniCA 61850 analyzer 4.25.00. This document has been issued for information purposes only, and the original paper copy of the KEMA report: No. 74101892-MOC/INC 12-01362 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to KEMA by TOSHIBA. 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, August 22, 2012

M. Adriaertsen

Director Intelligent Networks & Communication

Certification Manager

1 Level A - Independent Test lab with certified ISO 9000 or ISO 17025 Quality System 2 TPCL - test procedures change list

Copyright © KEMA Nederland B.V., Arnhem, the Netherlands. All rights reserved. Please note that any electronic version of this KEMA attestation is provided to KEMA's customer for convenience purposes only. It is prohibited to update or change it in any manner whatsoever, including but not limited to dividing it into parts. In case of a conflict between the electronic version and the original version, the original paper version issued by KEMA will prevail.



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, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
4: Setting Group Selection	Sg1, SgN1a	Sg3
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp7, Rp10, Rp12 RpN1, RpN2, RpN3, RpN4	Rp5, Rp6, Rp8, RpN5, RpN6
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br7, Br8, Br9, Br12, Br14 BrN1, BrN2, BrN3, BrN4, BrN5	Br5, Br6, Br10, BrN6
9a: GOOSE publish	Gop2, Gop3, Gop4, Gop7, Gop10a	Gop1, Gop6, GopN1
9b: GOOSE subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b
12a: Direct control	CtlN3, CtlN8	Ctl2, Ctl7, CtlN11
	DOns1, DOns3	
12b: SBO control	Ctl3, CtlN1, CtlN2, CtlN3, CtlN4, SBOns2	Ctl2, Ctl7, CtlN11
12c: Enhanced Direct Control	CtlN3, CtlN8	Ctl2, Ctl7, CtlN11
	DOes2, DOes5	
12d: Enhanced SBO control	Cti3, CtiN1, CtiN2, CtiN3, CtiN4, CtiN9	Ctl2, Ctl7, CtlN11
	SBOes1, SBOes2, SBOes3	
13: Time sync	Tm1, Tm2, TmN1	
14: File transfer	Ft1, Ft2ab, Ft4, FtN1ab	