

## ATTESTATION OF CONFORMITY

No. 10573793-DSO 25-3028

**Issued to:**

STRATON AUTOMATION  
Parc Sud Galaxie  
Rue du Sextant  
38130 Echirolles  
France

**For the client system:**

Brodersen RTU32M with module MP32A  
IEC 61850 firmware: straton runtime version 1601.51104  
S/N: BB61A

The client system has not been shown to be non-conforming to:

### IEC 61850 Edition 2 Amendment 1 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 Edition 2 with Amendment 1 and UCAIug Conformance Test Procedures for Client System with IEC 61850-8-1 interface, Edition 2 with Amendment 1 revision 1.0 with client system's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in RTU32M straton runtime version 16 date 11/11/2025", "Model Implementation Conformance Statement for Ed1 + Ed2 + Ed2Amd1 for the IEC 61850 Client Interface in RTUE32M running with straton runtime version 16, date: 11.11.2025, version 16" and "Tissues Implementation Conformance statement (TICS) for the IEC 61850 Client interface in RTU 32M straton runtime IEC61850 stack, date: November 11, 2025" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Client interface in RTU32M using straton runtime IEC 61850 stack; date: November 11, 2025".

The following IEC 61850 conformance blocks have been verified with a positive result:

1a	Basic Exchange	12a	Direct Control
2	Data Sets	12b	SBO Control
3	Substitution	12c	Enhanced Direct Control
4	Setting Group Selection	12d	Enhanced SBO Control
4+	Setting Group Definition	13a	Time Synchronization SNTP
5	Unbuffered Reporting	14	File Transfer
6	Buffered Reporting	15	Service Tracking
9	GOOSE Control Block		

This attestation includes a summary of the test results as carried out at DNV in The Netherlands with UniGrid SA Simulator version 4.1.0 and UniCA 61850 Analyzer 6.46.03. This attestation has been issued for information purposes only, and the archived DNV verification report No. 10573793-DSO 25-3026 rev 2 will prevail.

The test has been carried out on one single specimen of the server product as referred above and submitted to DNV by STRATON AUTOMATION. The manufacturer's production process has not been assessed. This attestation does not imply that DNV has verified any server product other than the specimen tested.

Arnhem, November 11, 2025



M. Plouvier  
Test Engineer

Issued by:



R. Schimmel  
Verification Manager



IMPORTANT: Remarks apply to this implementation. See the resulting report for full details. Publication of this document is allowed. Publication in total or in part and/or reproduction in whatsoever way of the contents of the above mentioned report(s) is not allowed unless permission has been explicitly given either in the report(s) or by previous letter.

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Applicable Test Procedures from the UCA International Users Group Conformance Edition 2 with Amendment 1 Client Conformance Test Procedures version 1.0

Conformance Block	Mandatory	Conditional
1a: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6, cAssN8	cAssN7, cSrv1, cSrv4, cSrv5, cSrv6, cSrv7, cSrv9, cSrv10, cSrvN1, cSrvN3, cSrvN4, cSrvN5, cSrvN6, cSrvN7, cSrvN8, cSrvN9
2: Data Sets		cDs1, cDs2, cDs5, cDs6, cDsN1a, cDsN1b
3: Substitution	cSub1, cSub3	cSub2
4: Setting Group Selection	cSg2, cSg46, cSgN1	
4+: Setting Group Definition	cSg11, cSg14	cSg10, cSg12, cSg13
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp18, cRp19, cRp20, cRp21, cRp22, cRp40, cRp41, cRp42, cRp43, cRp44, cRp45, cRp46, cRpN2, cRpN5, cRpN6	cRp2, cRp6, cRp7, cRp16, cRp17
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr18, cBr19, cBr20, cBr21, cBr22, cBr30, cBr31, cBr46, cBrN2, cBrN5, cBrN6	cBr2, cBr6, cBr7, cBr16, cBr17, cBr32
9: GOOSE control block		cGcb1, cGcb2, cGcb46
12a: Direct Control	cCtl4, cCtl5, cDOns1, cDOns2	cCtl1, cCtl2, cCtl3
12b: SBO Control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3, cSBOns10	cCtl1, cCtl2, cCtl3, cSBOns4
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	cCtl1, cCtl2, cCtl3
12d: Enhanced SBO Control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	cCtl1, cCtl2, cCtl3, cSBOes4
13a: Time sync SNTP	cTm1, cTmN1	cTmN2
14: File transfer	cFt1, cFt3, cFt6, cFtN1	cFt2, cFt5, cFtN2
15: Service Tracking		cTrk1, cTrk2, cTrk4, cTrk7, cTrk8, cTrk9, cTrk10, cTrk11, cTrk12, cTrk13, cTrk14, cTrk15, cTrk16

Test case	Limitations or Comments
Service Tracking	Test case numbering updated according to redmine #6654