

## IEC 61850 Certificate Level B<sup>1</sup>

No. 50745.6CSD.801

**Issued to:**

Grid Solutions SAS  
1, rue Paul Doumer  
CS 60601 - 73106 AIX-LES-BAINS  
France

**For the server product:**

CSD100  
Point-on-Wave Controller  
Firmware Version: v1.1  
Type: RPH4

**Issued by:**

Grid Automation Laboratories, UK Grid Solutions Limited

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 2.0.5 with product's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement (PICS) for the IEC 61850 Edition 2 server interface in CSD100/RPH4 V1.1, NOT 200.8703 PICS Rev 1.1", "Model Implementation Conformance Statement (MICS) for the IEC 61850 Edition 2 server interface in CSD100/RPH4 V1.1, NOT 200.8702 MICS Rev 1.0", "Technical Issues Conformance Statement (TICS) for the IEC 61850 Edition 2 server interface in CSD100/RPH4 V1.1, NOT 200.8705 TICS Rev 1.0" and extra information for testing "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Edition 2 server interface in CSD100/RPH4 V1.1, NOT 200.8704 PIXIT Rev 1.0".

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 (19/26)	13 Time Synchronization (4/7)
2 Data Sets (4/7)	
5 Unbuffered Reporting (18/23)	
6 Buffered Reporting (27/33)	

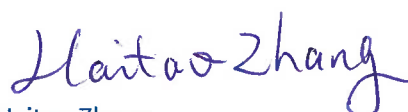
This certificate includes a summary of the test results as carried out at Stafford, United Kingdom with UniGrid SA version 1.8.0 with test suite 2.0 and UniCA 61850 Analyzer version 6.40.1. This document has been issued for information purposes only, and the original paper copy of the Grid Automation Laboratories report No. 50745.6CSD.301 will prevail.

The tests have been carried out on one single specimen of the product as referred and submitted to Grid Automation Laboratories by Grid Solutions SAS. The manufacturer's production process has not been assessed. This certificate does not imply that Grid Automation Laboratories at UK Grid Solutions Limited has certified or approved any other product other than the specimen tested.

Stafford, 09 August 2021



Allen Millard  
Grid Automation Laboratories Manager



Haitao Zhang  
Grid Automation Laboratories Test Engineer

<sup>1</sup> Level B - Test lab with certified ISO 9001 Quality System.

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Applicable Test Procedures from the UCA International Users Group Edition 2 Server Test Procedures version 2.0.5.

Conformance Block	Mandatory	Conditional
1: Basic Exchange	sAss1, sAss2, sAss3, sAss4, sAssN2, sAssN3, sAssN4, sAssN5, sSrv1, sSrv2, sSrv3, sSrv4, sSrv5, sSrv8, sSrvN1abcdef, sSrvN4	sAssN6, sSrv9, sSrv12
2: Data Sets	sDs1, sDs10a, sDsN1ae	sDs15
5: Unbuffered Reporting	sRp1, sRp2, sRp3, sRp4, sRp5, sRp9, sRp14, sRp16, sRpN1, sRpN2, sRpN3, sRpN4, sRpN8	sRp8, sRp11, sRp12, sRp15, RpN5
6: Buffered Reporting	sBr1, sBr2, sBr3, sBr4, sBr5, sBr9, sBr14, sBr16, sBr20, sBr21, sBr22, sBr25, sBr26, sBr27, sBr28, sBr29, sBrN1, sBrN2, sBrN3, sBrN4, sBrN5, sBrN8	sBr8, sBr10, sBr11, sBr12, sBr15
13: Time sync	sTm1, sTm2, sTmN1	sTm3