

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

**Issued to:**

Ashida Electronics Pvt. Ltd.  
Plot No.A 308, Road No.21  
MIDC,Wagle Industrial Estate  
Thane(W) 400604  
India

**For the client system:**

APCG-42 Data Concentrator/RTU  
F/W version: 1.4.59  
IEC 61850 client version: 2.1.7.2  
S/N: 21GAPCG0003

The client system 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 in substations

The conformance test has been performed according to IEC 61850-8-1 interface, revision 1.2 with client system's protocol, model and technical issue implementation conformance statements: "ASHIDA: IEC 61850 Client Edition 2 PICS Document for APCG, issue 1.1", "Model Implementation Conformance Statement for the IEC 61850 Client Interface in APCG, issue 1.1" and "TISSUES Implementation Conformance Statement for the IEC 61850 Edition 2 Client Interface in APCG, issue 1.1" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT)for the IEC 61850 Client interface in APCG, issue 1.1".

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 (12/24)	12a Direct Control (4/9)
2 Data Sets (4/10)	12b SBO Control (5/11)
5 Unbuffered Reporting (19/24)	12c Enhanced Direct Control (4/9)
6 Buffered Reporting (23/28)	12d Enhanced SBO Control (5/11)
	13 Time Synchronization (3/4)

This certificate includes a summary of the test results as carried out at DNV in The Netherlands with UniCA 61850 IED Simulator version 6.1.31 and UniCA 61850 Analyzer 6.40.01. This document has been issued for information purposes only, and the archived DNV verification report No. 10306265-INC 21-3376 rev 2 will prevail.

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

Arnhem, October 20, 2021



**N.A. Heijker**  
Business Leader  
Interoperability of Smart Power Systems

**Issued by:**




**R. Schimmel**  
Verification Manager

<sup>1</sup> Level A - Independent test lab with certified ISO 9001 Quality System  
Copyright © DNV Netherlands B.V. Arnhem, the Netherlands. All rights reserved. It is prohibited to update or change this certificate in any manner whatsoever, including but not limited to dividing it into parts.

## IEC 61850 Certificate Level A

Applicable Test Procedures from the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7, cSrv5, cSrv7, cSrv10, cSrvN3
2: Data Sets		cDs2, cDs5, cDs6, cDsN1b
5: Unbuffered Reporting	cRp3, cRp4, cRp5, cRp8, cRp9, cRp10, cRp11, cRp13a, cRp14, cRp15, cRp19, cRpN2, cRpN5, cRpN6	cRp2, cRp6, cRp7, cRp16, cRp18
6: Buffered Reporting	cBr3, cBr4, cBr5, cBr8, cBr9, cBr10, cBr11, cBr13a, cBr14, cBr15, cBr19, cBr30, cBr31, cBrN2, cBrN5, cBrN6	cBr2, cBr6, cBr7, cBr16, cBr18, cBr32, cBr33
12a: Direct Control	cCtl4, cCtl5, cDOns1, cDOns2	
12b: SBO Control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3	
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	
12d: Enhanced SBO Control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	
13: Time sync	cTm1, cTmN1	cTm2