

IEC 61850 Certificate Level A¹

Issued to:

Hitachi Energy Ltd.
Bruggerstrasse 72
5400 Baden
Switzerland

For the system configuration tool:

Hitachi IET600 Integrated engineering tool
Version: 5.4

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

IEC 61850 Edition 2 with Amendment 1 Part 6

Communication networks and systems for power utility automation

The conformance test has been performed according to IEC 61850-10 and the UCA International Users Group IEC 61850 Edition 2 with Amendment 1 Conformance Test Procedures for System Configuration Tool, version 1.0 with tool's SCL and tissues Implementation conformance statements: "SCL Implementation Conformance Statement (SICS) for the IEC 61850 Ed2.1 functionality in IET600, version 5.4" and "Tissue Implementation Conformance Statement (TICS) for the IEC 61850 Ed2.1 functionality in IET600, version 5.4" and product's extra information for testing: "Protocol Implementation extra Information for Testing (PIXIT) for the IEC 61850 Ed2.1 functionality in IET600, version 5.4".

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):

	<ul style="list-style-type: none"> 31 ICD & IID import and usage (8/10) 32 Communication Engineering (10/12) 33 Data Flow Engineering (11/14) 34 Substation Section Handling (6/8) 35 SCD Modification (6/9) 36 SCD Export (7/7) 37 SCD Import (4/6) 38 SED Handling (10/11)
--	--

This certificate includes a summary of the test results as carried out at DNV in The Netherlands with UniGrid SA Simulator 2.2.1 with test suite 20240701. This document has been issued for information purposes only, and the archived DNV verification report No. 10441999-DSO 24-4287 rev 2 will prevail.

Arnhem, August 23, 2024



K. Lazaridis
Test Engineer

Issued by:




R. Schimmel
Verification Manager

¹ Level A - Independent test lab with certified ISO 9001 Quality System
UCA International Users Group P.O. Box 315, Shell Knob, MO 65747 USA

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 UCAlug Conformance Test Procedures for System Configuration Tools for IEC 61850 Edition 2 with Amendment 1, revision 1.0

Conformance Block	Mandatory	Conditional
31: ICD & IID import and usage	tSie1, tSie2, tSie3ab, tSie6a, tSie7, tSieN1, tSieN2	tSie5
32: Communication Engineering	tSce1, tSce2, tSce3, tSce4, tSce6, tSce8, tSce9, tSce10, tSceN2	tSce5
33: Data Flow Engineering	tDfe1, tDfe2abcdef, tDfe3abcdef, tDfe4abcdef, tDfe51abc, tDfe52abc, tDfe6ab, tDfe7ab, tDfeN1, tDfeN2abcdef, tDfeN3	
34: Substation Section Handling		tSsh1, tSsh2ab, tSsh3, tSsh5, tSsh6, tSsh8abc
35: SCD Modification	tSmo1	tSmo4, tSmo5, tSmo7, tSmo8, tSmo9
36: SCD Export	tSse1c, tSse3	tSse1a, tSse1b, tSse2, tSse4, tSse5
37: SCD Import	tSsi1ab, tSsi2, tSsi5, tSsi6	tSsi5, tSsi6
38: SED Handling	tSeh1, tSeh2, tSeh3, tSeh7, tSeh9, tSeh10, tSeh11	tSeh4, tSeh6, tSeh8