IEC 61850 Certificate Level A[1]

Issued to:

Schneider Electric España, S.A.
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Edificio Bogaris
41092 Sevilla
Spain

For the client system:

Saitel DP: SM_CPU866e with SM-DI32, SM_DO16R, and SM_AI16
Remote Terminal Unit & Controller with high performance CPU, digital inputs, digital outputs, and analog inputs module

Module:	SW version:	S/N:
SM_CPU866e	11.06.22_2104151433	2019R1576549
SM_DI32	-	2023R1578095
SM_DO16R	-	2025R1579078
SM_AI16	-	2012R1574025

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 61850-10 Edition 2, the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.1.2 with client system's protocol, model and technical issue implementation conformance statements: "Protocol Implementation Conformance Statement for the IEC 61850 interface in SAITEL DP; Version 8, 29/04/2021", "Model Implementation Conformance Statement for the IEC 61850 Client Interface in Saitel DP; Version 2, 9/04/2021" and TISSUES Implementation Conformance Statement for the IEC 61850 Edition 2 Client/Server Interface in Saitel DP, Version 2, 29 April 2021" and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Client interface in Saitel DP; Version 8, 29/04/2021".

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 (16/24)	12a	Direct Control (5/9)
2	Data Sets (3/10)	12b	SBO Control (6/11)
5	Unbuffered Reporting (19/24)	12c	Enhanced Direct Control (5/9)
6	Buffered Reporting (22/28)	12d	Enhanced SBO Control (6/11)
		13	Time Synchronization (3/4)

This certificate includes a summary of the test results as carried out at DNV in Spain with UniCA 61850 IED Simulator version 6.1.31 and UniCA 61850 Analyzer 5.34.02. This document has been issued for information purposes only, and the archived DNV verification report No. 10250718-INC 21-2911 rev 1 will prevail.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV by Schneider. 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, April 29, 2021

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

Issued by:

R. Schimmel
Verification Manager

IEC 61850 Certificate Level A

Applicable Test Procedures from the UCA International Users Group Edition 2 Client Conformance Test Procedures version 1.1.2

Conformance Block	Mandatory	Conditional
1: Basic Exchange	cAss1, cAss2, cAss3, cAssN1, cAssN4, cAssN5, cAssN6	cAssN7 cSrv5, cSrv6, cSrv7, cSrv8, cSrv10, cSrvN3, cSrvN4, cSrvN5
2: Data Sets		cDs2, cDs5, cDs6
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
12a: Direct Control	cCtl4, cCtl5, cDOns1, cDOns2	cCtl2
12b: SBO Control	cCtl4, cCtl5, cSBOns1, cSBOns2, cSBOns3	cCtl2
12c: Enhanced Direct Control	cCtl4, cCtl5, cDOes1, cDOes2	cCtl2
12d: Enhanced SBO Control	cCtl4, cCtl5, cSBOes1, cSBOes2, cSBOes3	cCtl2
13: Time sync	cTm1, cTmN1	cTm2