

IEC 61850 Certificate Level A¹

Issued to:

Schneider Electric Industries SAS
35 rue Joseph Monier
92500 Rueil Malmaison
France

For the server product:

PowerLogic™ P7 Protection and Control Device
Firmware version: V01.002
S/N: WX221110005

The server product has not been shown to be non-conforming to:

IEC 61850-5 Edition 2 Amendment 1 Performance Class: P1 (3ms)

The performance test has been performed according to the UCA International Users Group GOOSE performance Test Procedures version 2.5 with product's protocol conformance statement: "Protocol Implementation Conformance Statement (PICS) for the IEC 61850 Edition 2 Amendment 1 Server Interface in the PowerLogic™ P7 Protection and Control Device, date 08/2023", and product's extra information for testing: "Protocol Implementation eXtra Information for Testing (PIXIT) for the IEC 61850 Edition 2 Amendment 1 Server Interface in the PowerLogic™ P7 Protection and Control Device, date 08/2023".

This certificate summarizes the test results as carried out at Schneider Electric Industries SAS in China with the Omicron Test Universe version 4.31, Profishark 1G+ and UniCA 61850 Analyzer version 6.41.00. This document has been issued for information purposes only, and the archived DNV verification report: No. 10369020-DSO 23-3055 Rev 2 will prevail.

The GOOSE performance has been measured with Boolean and Double Point values.

The test has been carried out on one single specimen of the product as referred above and submitted to DNV by Schneider Electric Industries SAS. 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, November 25, 2024



Xie, Xing Xing Vicky
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

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GOOSE Performance Measured Results

Results of the GOOSE performance benchmark tests as specified in the UCA International Users Group GOOSE performance Test Procedures version 2.5.

Performance class = P1 (3ms)

Goose Performance Benchmark summary results, compensated for scan cycle delay.

Test ID	Large dataset	Correlated subscribed	Back-ground	Minimum Transfer time [ms]	Maximum Transfer time [ms]	Average Transfer time [ms]
Gpf1	-	-	-	1.49	1.94	1.56
Gpf2	X	-	-	1.83	2.27	2.23
Gpf3	-	X	-	1.44	2.01	1.52
Gpf4	X	X	-	1.78	2.25	2.18
Gpf5	-	-	X	1.44	1.93	1.56
Gpf6	X	-	X	1.8	2.25	2.23
Gpf7	-	X	X	1.44	2.04	1.52
Gpf8	X	X	X	1.77	2.25	2.16
Gpf9 Fixed length	X	X	-	1.74	2.26	2.03

Test case	Comments
All	According to redmine #6465 the Edition 2 GOOSE performance test procedures also apply for Edition 2 Amendment 1