

Issued to:
GE Renewable Energy
St. Leonards Building
Harry Kerr Drive, Stafford
UK, ST16 1WT



For the server product:
MiCOM P40 Agile P94VR
Feeder Management Relay
Firmware Version 62F
Hardware Version A

The server product has not been shown to be non-conforming to:
IEC 61850 First Edition 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, the UCA International Users Group Server Device Test Procedures Revision 3.3, the product's protocol, model and technical issue implementation conformance statements: "MiCOM P40 Agile P14D, P14N, P94V PICS, P40A-PC-EN-10.2", "MiCOM P40 Agile P94VR MICS, P94VR-MC-EN-10.2", "MiCOM P40 Agile P14D, P14N and P94V TICS, P40Agile-TC-EN-10.1" and extra information for testing "MiCOM P40 Agile P14D, P14N & P94V PIXIT, P40Agile-PX-EN-10.1".

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 (22/25)	12a	Direct Control (4/11)
2	Data Sets (3/6)	12b	SBO Control (7/14)
4	Setting Group Selection (3/3)	12c	Enhanced Direct Control (6/13)
5	Unbuffered Reporting (16/18)	12d	Enhanced SBO Control (11/19)
6	Buffered Reporting (23/27)	13	Time Synchronization (4/5)
9a	GOOSE Publish (11/12)	14	File Transfer (6/7)
9b	GOOSE Subscribe (11/11)		

This certificate includes a summary of the test results as carried out at Grid Automation Laboratories in UK Grid Solutions Limited in Stafford, United Kingdom with UniGrid SA version 1.7 and the UniCA 61850 Analyzer version 5.36. This document has been issued for information purposes only, and the original paper copy of the Grid Automation Laboratories report: No. 50745.694V.303 will prevail.

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

Stafford, 27 April 2021

Allen Millard
Grid Automation Laboratories Manager

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IED Communication Test Engineer

¹ Level B – Tester with ISO 9001 Quality System



IEC 61850 Certificate Level B

No. 50745.694V.803

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Applicable Test Procedures from the UCA International Users Group Server Device Test Procedures version 3.3

Conformance Block	Mandatory	Conditional
1: Basic Exchange	Ass1, Ass2, Ass3, AssN2, AssN4, AssN5 Srv1, Srv2, Srv3, Srv4, Srv5, SrvN1abcd, SrvN4	AssN3, AssN6 Srv6, Srv7, Srv8, Srv12, SrvN1e, SrvN1f, SrvN3
2: Data Sets	Dset1, Dset10a, DsetN1ae	
4: Setting Group	Sg1, SgN1a, Sg3	
5: Unbuffered Reporting	Rp1, Rp2, Rp3, Rp4, Rp9, RpN1, RpN2, RpN3, RpN4, RpN8	Rp5, Rp8, Rp10, Rp11, Rp12, RpN5
6: Buffered Reporting	Br1, Br2, Br3, Br4, Br9, Br20, Br21, Br22, Br25, Br26, Br27, Br28 BrN1, BrN2, BrN3, BrN4, BrN5, BrN8	Br5, Br8, Br10, Br11, Br12
9a: GOOSE Publish	Gop2, Gop3, Gop4, Gop9, Gop10a	Gop1, Gop5, Gop6, Gop10b, GopN1, GopN2
9b: GOOSE Subscribe	Gos1a, Gos2, Gos3, GosN1, GosN2, GosN3, GosN4, GosN5, GosN6	Gos1b, Gos4
12a: Direct Control	CtIN3, DOns1	CtIN11, DOns3
12b: SBO Control	CtIN1, CtIN2, CtIN3, CtIN4, SBOs2	CtI3, CtIN11
12c: Enhanced Direct Control	CtIN3, DOes2, DOes5	CtIN6, CtIN8, CtIN11
12d: Enhanced SBO Control	CtIN1, CtIN2, CtIN3, CtIN4, CtIN9 SBOes1, SBOes2, SBOes3	CtI3, CtIN6, CtIN11
13: Time sync	Tm1, Tm2	Tm3, TmN1
14: File Transfer	Ft1, Ft2ab, Ft4, FtN1ab	Ft2c, FtN1c

