Certificate registration number: G3.1801.186.2.A2

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CERTIFIED

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Certificate holder: Groupe CAHORS

Product designation: PLCC MK5 G3, Hardware version HW03, Firmware version v3.02-02

Certification date: February 21st, 2018

This certificate indicates the above mentioned product successfully completed certification testing with regards to the reference specification ITU G.9903 (02-2014) plus the changes listed in the annex to this certificate. The optional feature coherent mode of the G3-PLC protocol is also covered by this certification.

The certificate applies to certification profile CENELEC A and the device was configured as a PAN-Coordinator.

Test cases have been performed as described in the test report referred to below. This certificate is granted on account of tests conducted by Laboratoire des Applications Numériques (LAN) in Tauxigny, France in January 2018. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence
Conformance, interoperability and performance testing according to the test specification referenced by the test report	Laboratoire des Applications Numériques (LAN)	LAN17AF063

The device tested is a G3-PLC CENELEC A 3-phase data concentrator. The data concentrator is equipped with the G3-PLC certified platform CAHORS_PAN_G3_CENELEC_A with certificate no. G3.1801.185.1.A2. The Protocol Implementation Conformance Statement in the Annex includes the PICS related to performance and is an integral part of this certificate. This certificate is valid from February 21st, 2018.

The certificate is only applicable to the product described above and permits the use of the G3-PLC[™] logo as laid down in the G3-PLC logo license agreement.

This certificate does not imply assessment of the production. This certificate shall not be defined, or used as a guarantee covering quality of a product which includes G3-PLC. The liability of the Alliance and the test laboratory or any of her representatives is excluded for any damages or losses of the certified company.

Paris, February 21st, 2018

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For the G3-PLC Alliance:

Bernard-Lassus Chairman

Madeleine Francillard Chair Certification Program



Authenticity of this certificate can be verified at http://www.g3-plc.com/certified-products-platforms/ Page 1 of 7

G3-PLC CENTIFIED

Annex 1: Reference Version for Certification

The reference version for this certificate is published in 'Narrowband OFDM PLC specifications for G3-PLC network, April 2015'.

The reference version for this certification is:

ITU-T G.9903 (02-2014)

- + CCTT #24-25-30: Implementation of MAC security (anti-replay) solution F1
- + CCTT #61: ADPM-Buffer behavior clarification
- + CCTT #143: AC Phase Detection v2
- + CCTT #144: Hop Limit usage during route repair v3
- + CCTT #145: Value of RCCoord when the node is at adpMaxHops hops from the coordinator
- + CCTT #146: Pilot tone generation
- + CCTT #147: Link-cost computation for Path discovery v2
- + CCTT #148: Path discovery frame routing v3
- + CCTT #152: Scrambler reset
- + CCTT #154: Clarification of PANCount and PANDescriptor
- + CCTT #156: Clarification of ADPM-NETWORK-STATUS.indication
- + CCTT #157: Interleaver Equation v2
- + CCTT #158: Unicast Routing Process
- + CCTT #159: Correct the windowing function description
- + CCTT #160: Clarify 16QAM quantisation and optionality
- + CCTT #161: Correct aMaxFrameSize and aMinFrameSize for FCC/ARIB bandplans
- + CCTT #162: Interleaver co-prime number clarification v2
- + CCTT #163: CRC5 and CRC8 packing order
- + CCTT #164: Route Repair v2
- + CCTT #165: Clarification Neighbour Table v2
- + CCTT #167: HOP COUNT metric identifier v2
- + CCTT #169: Clarification on PLME_GET v4
- + CCTT #170: Clarification to Frame Counter Handling Mechanism v2
- + CCTT #172: Windowing in coherent mode
- + CCTT #173: Clarification of LOADng mechanism used to detect bidirectional links
- + CCTT #174: Avoiding duplicated MAC packets
- + CCTT #175: LOADng subsequent RREP generation
- + CCTT #176: Link cost function of LQI v3
- + CCTT #177: Broadcast routing filtering frames on the source
- + CCTT #178: Coexistence of G3-PLC with other PLC technologies v3
- + CCTT #179: RREP Filtering v3
- + CCTT #181: Route Repair v2

Certificate registration number: G3.1801.186.2.A2

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Annex 2: Protocol Implementation Conformance Statement (PICS)

G3-PLC CENA

Feature implementation statement

Name	Value	Description
BAND_PLAN	CENELEC A	Indicate the band-plan supported by the device.
FEATURE_PAN_COORDINATOR	TRUE	Indicate if the device is a PAN-Coordinator (true) or a normal device (false).
FEATURE_COHERENT_MODULAT	TRUE	Indicate if coherent modulation is supported.
		Indicate if an EAP-PASK server is implemented by the DUT.
FEATURE_EAP_SERVER	TRUE	Apply only if FEATURE_PAN_COORDINATOR = true.
FEATURE_D8PSK_MODULATION	TRUE	True / False
FEATURE_ROUTING	TRUE	Indicate if the routing is implemented by the IUT.
FEATURE_SECURITY	F1	Indicate the security implemented by the device. Possible values are: F1, F2.
FEATURE_ACTIVE_SCAN	TRUE	Indicate if the active scan process is done by the IUT after power-up.
FEATURE_PREAMBLE_COEXISTE NCE_MECHANISM	FALSE	Indicate if the preamble-based coexistence mechanism is used by the IUT.

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Certificate registration number: G3.1801.186.2.A2

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Annex 2: Protocol Implementation Conformance Statement (PICS)

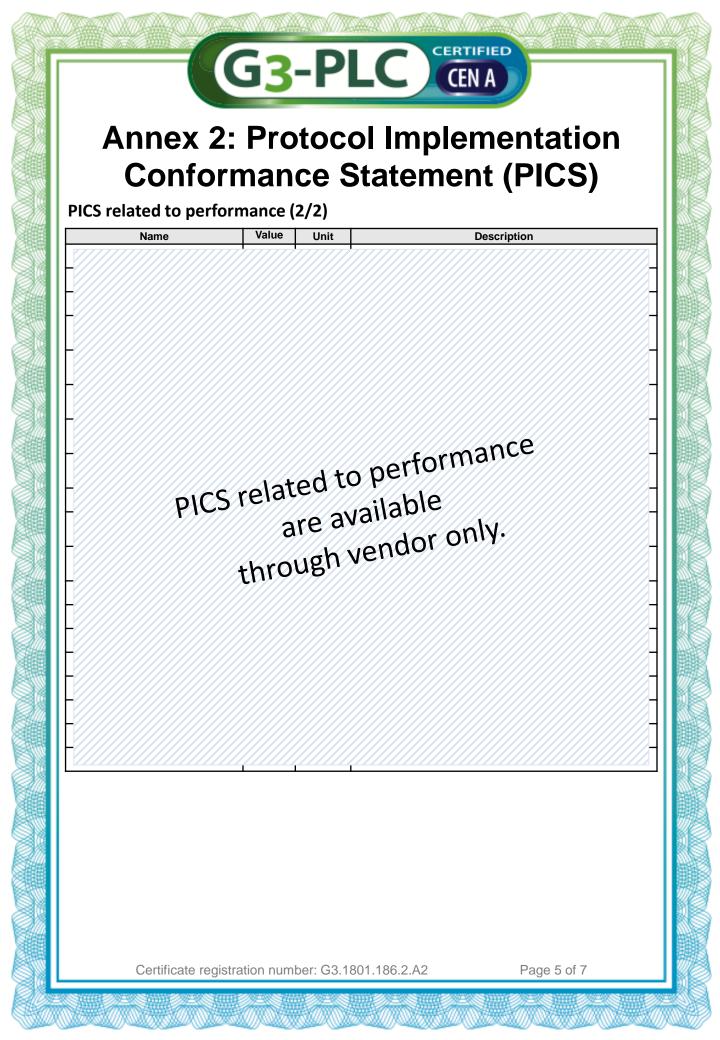
G3-PLC CENTIFIED

PICS related to performance (1/2)

The device tested is a G3-PLC CENELEC A 3-phase data concentrator communicating on 3 phases. Testing was performed on phase 1.

Operating voltage applied for certification testing was 230V X 3/50Hz.

Name	Value	Unit	Descri	ption
-105	relate	ed to	o performan vailable vendor only.	се
Certificate registra	tion numbe	er: G3.18	301.186.2.A2	Page 4 of 7



G3-PLC CENTIFIED

Annex 3: Copy of test report cover sheet

				tification Test Report	
ur dia	ital lab		Groupe CAHORS PLCC MK5 G3 HW:HW03 FW: v3.02-02		
		LAN17A	F063 Ed.00	January 31, 2018 Page 1/46	
				G2-PIC	
				G3-PLC Alliance	
		G3-PL	C Produc	ct Certification	
				Test Report	
Vendor Name	Group	e CAHOF	RS		
Model Name		MK5 G3	5.07T		
Serial N°	07177404				
HW version FW version	HW03 v3.02-02				
Test Report #	TR LAN1	7AF063 Ed.00		LINKY CCAHOR	
Date	January			Concentrateur CPL 03 Ref. 01800	
CONF Tests S CONF Tests S IOT Tests Spe IOT Tests Sui PERF Tests S PERF Tests S	Suite vectorication vectoricat	ersion 0.19. ersion 2.1. ersion 0.7. ersion 2.1. ersion 0.15. ersion 2.1.	01/09/2015 10/2015 21/04/2015 10/2015 25/11/2015 10/2015	0 - 220 / 30 - 290 VERSION (SALE) (200) 0 - 10 - 100 (100) VERSION (SALE) (300) VERS	
Test Tool Tester Moden Certification T	ve	rsion 1.7 rsion 1.09 rsion 1.11	11/09/2017		
Certification P Role Overall Verdic	Data Con	LEC A) centrator	, · ·		
Initiation	Date		escription of odification	Ed.	
Omar DIOUF	January 31, 2018		Creation	00	
	Realised by		hecked by	Approved by	
Name	Omar DIOUF		ent BUCHOUX	Thierry DOLIGEZ	
Date	January 31, 2018	Ja	nuary 31, 2018	January 31, 2018	

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This report contains an assessment of the apparatus carried out on samples submitted to the laboratory. The results in this report relate only to the items tested and wer obtained in the period between the initial receipt of samples and the issue of the report it should be noted that technical hardware or software modifications on th apparatus may impact the results reported in this document.

Certificate registration number: G3.1801.186.2.A2

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