



On behalf of STA

Certification Body : **CNA-PayCert**

48 rue Montmartre

75002 Paris

France

Paris, 23/12/2020

Mr. Mohamed TABET
PROTON WORLD INTERNATIONAL NV
190 Avenue Celestin Cop
13106 Rousset Cedex
France

CEN TS 16794 Compliance Certificate - PICC

Certificate Number: CNAPC/PIC-00027
Product/System name: CD21 Convego Calypso (commercial identification)
Compliant with : CEN/TS 16794-1:2017
Operational temp. range : Class I (-10°C to +50°C)
ISO 14443 antenna class : Class 1
Protocol supported : type B

Dear Mr. Mohamed TABET,

CNA-PayCert has received a request, submitted by PROTON WORLD INTERNATIONAL NV, your company, for the Certification of the PICC product CD21 Convego Calypso (IC type: ST31G256SQ, Application Type: Calypso Rev 3.2 **FW 495**, Antenna Linxens D-12707), hereafter referred to as the Product and identified above as "CD21 Convego Calypso".

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.STM.PICC.CEN16794.2017.2020-022 dated 23/12/2020 and we have assessed your Test Report(s) (ref. (analog) : IC.E.RE.1910.010_v1.0, (digital) : IC.E.RE.1910.011_v1.0), which was generated by ICUBE, following the Test Plan "CEN/TS 16794-2:2017".

Based on these elements, as indicated in PayCert's Certification Report (ref. CER/EVR/PIC/2019-108 v2.0.0) the Certification Body has found reasonable evidence that the submitted samples of the Product complies to the CEN/TS 16794-1:2017.

The Certification Body hereby grants the Product Certification of compliance with the requirements stated by the CEN/TS 16794-1:2017 standard and will include your Product in the certified products list, published on CNA-PayCert website (www.cna-paycert-certification.com).



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Please note that the present Certification is subject to the following terms and conditions as listed hereafter :

i) The present Certification is granted on the basis of the Smart Ticketing Alliance Certification Policy and therefore is valid as of today and will expire on the 18/11/2026.

ii) If the Product is changed, PROTON WORLD INTERNATIONAL NV must notify the Certification Body of this fact in writing. Any change in the Product that may generate a different behaviour with respect to the CEN/TS 16794-1:2017 standard or a difference in the Product Implementation Conformance Statement will be considered a major modification subject to a new evaluation in order to maintain the present Certification.

iii) The present Certification granted to PROTON WORLD INTERNATIONAL NV for the above referenced Product is non-transferable to any other vendor.

The Certification Body has the right to terminate or revoke the Certification should any of the aforementioned terms and conditions be not respected.

Name: Ludovic VERECQUE

Title: General Manager



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a. PICC Product Description

[PICC1] Administrative data

[PICC1.1] (*) Brand name: Convego Calypso CD21 Flash 3.2

[PICC1.2] (*) Trade name: Convego Calypso CD21 Flash 3.2

[PICC1.3a] (*) Hardware version: Revision B

[PICC1.3b] (*) Software version: Revision 0x10 Version 0x01 FW 495

[PICC1.4] (*) PICC features ISO/IEC 7816 contact interface (dual): Yes No

[PICC1.5] (*) IC manufacturer: STMicroelectronics

[PICC1.6] (*) IC reference / size: ST31G256SQ

The PICC is based on a STA certified PICC: Yes

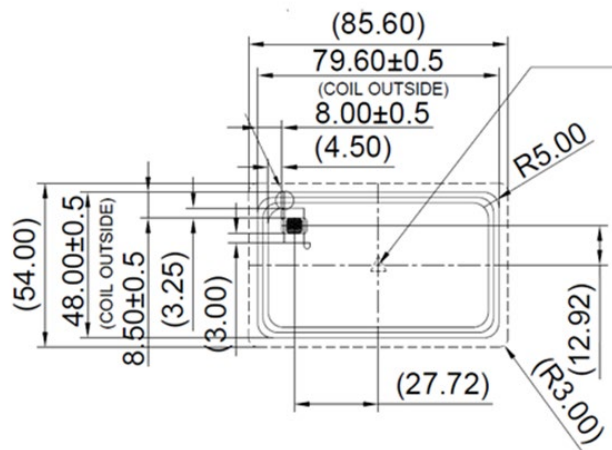
If yes STA PICC certificate number (*): CNAPC/PIC-00019

If yes rationale to justify the delta-certification (*): Only 2 modifications on Calypso application:

Ensure that 'invalidate' command is canceled if the session does not close correctly (Select application sent before closing session), SW corrected on Counter behavior after reaching the maximum.

b. PICC General Technical Characteristics

[PICC2.2] (*) Reference of PICC Zero Point (target ID-marked on sample or photo or diagram):



[Click here to enter text.](#)

[PICC2.3] (*) Operational temperature range supported:

- Class A (Ambient)
 Class I (-10 °C to + 50 °C)

[PICC2.4] (*) Antenna class according to ISO/IEC 14443:

- Unclassified "Class 1" "Class 2" "Class 3"



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c. PICC Supported Options

[PICC3] Protocol characteristics

[PCD3.1] (*) Protocol(s) supported: Type A Type B Other:

[PICC5] Type B (where applicable)

[PICC5.1] (*) PCD -> PICC bit rates supported: fc/128 (~106 kbit/s)

Other: 212 Kbits/s 424 Kbits/s 848Kbits/s

[PICC5.2] (*) PICC -> PCD bit rates supported: fc/128 (~106 kbit/s)

Other: 212 Kbits/s 424 Kbits/s 848Kbits/s

[PICC5.3] (*) Only symmetrical bit rates supported: Yes No

[PICC5.4] (*) PUPI value: Fixed number Random number

[PICC5.9] (*) Extended ATQB support: Yes No

If yes, SFGI: 0x10h

[PICC5.10] (*) S(PARAMETERS) support: Yes No

[PICC5.11] (*) All AFIs are supported: Yes No

If not, indicate all supported AFI(s): [Click here to enter text.](#)

[PICC5.12] (*) REQW/WUPB with N > 1 support: Yes No