On behalf of STA

Certification Body : **CNA-PayCert**
48 rue Montmartre
75002 Paris
France

Paris, 30/10/2019

Mr. Mohamed TABET
ST MICROELECTRONICS
190 Avenue Celestin Cop
13106 Rousset Cedex
France

CEN TS 16794 Compliance Certificate - PICC

Certificate Number:	CNAPC/PIC-00017
Product/System name:	CD21 Flash CLAP by IDEMIA (commercial identification)
Compliant with :	CEN/TS 16794-2:2017
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 Flash CLAP by IDEMIA (IC type: ST31G256SQ, Application Type: Calypso Light Application (CLAP) FW4 73, Antenna TOYO Aluminium IN201), hereafter referred to as the Product and identified above as “CD21 Flash CLAP by IDEMIA”.

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.STM.PICC.CEN16794.2017.2019-012 and we have assessed your Test Report(s) (ref. (analog) : IC.E.RE.1909.011_v1.0, (digital) : IC.E.RE.1909.012_v1.0), which was generated by ICUBE, following the Test Plan “CEN/TS 16794-1:2017”.

Based on these elements, as indicated in PayCert’s Certification Report (ref. CER/EVR/PIC/2019-104 v2.0.0) the Certification Body has found reasonable evidence that the submitted samples of the Product complies to the CEN/TS 16794-2:2017.

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The Certification Body hereby grants the Product Certification of compliance with the requirements stated by the CEN/TS 16794-2:2017 standard and will include your Product in the certified products list, published on CNA-PayCert website (http://cna-paycert-certification.com).

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 30/10/2026.

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 16794-2:2017 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 aformentionned terms and conditions be not respected.

Ludovic VERECQUE

Signature numérique de Ludovic VERECQUE
Date : 2019.10.30 15:52:39 +01'00'

Name: Ludovic VERECQUE

Title: General Manager

1.1 PICC Product Description

[PICC1] Administrative data

[PICC1.1] (*) Brand name: CD21 Flash CLAP by IDEMIA

[PICC1.2] (*) Trade name: CD21 Flash CLAP by IDEMIA

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

[PICC1.3b] (*) Software version: Revision 0x10 Version 0x01 FW 473

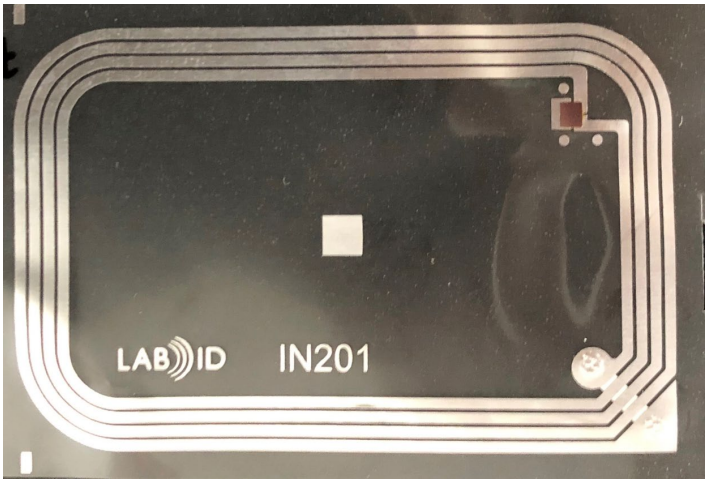
[PICC1.4] (*) PICC features ISO/IEC 7816 contact interface (dual): ○ Yes ◉ No

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

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

1.2 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"

1.3 PICC Supported Options

[PICC3] Protocol characteristics

[PICC3.1] (*) Protocol(s) supported: Type A ☐ Type B ☒ Other: Click here to enter text.

[PICC5] Type B (where applicable)

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

Other: 212 Kbits/s

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

Other: 212 Kbits/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: 0x10

[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] (*) REQB/WUPB with N > 1 support: ◉ Yes ○ No