On behalf of STA

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

Paris, 22/02/2021

Mr Frédéric QUILLARD
RATP
54, quai de la Rapée - LAC A85
75599 Paris Cedex 12
France

CEN TS 16794 Compliance Certificate - PCD

Certificate Number:	CNAPC/PCD-00025
Product/System name:	RVF (commercial identification)
Compliant with :	CEN/TS 16794-1:2017
Operational temp. range :	Class D (-25°C to +55°C)

Dear Mr QUILLARD,

CNA-PayCert has received a request, submitted by RATP, your company, for the Certification of the PCD product RVF, hereafter referred to as the Product and identified above as “RVF”.

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.AUT.PCD.CEN16794.2017.2020-015 and we have assessed your Test Report(s) (ref. IC.E.RE.2008.001_v1.0 (Analog)), 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/PCD/2021-017 v1.0.0) 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 the CNA-PayCert website (www.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 22 February 2028

ii) If the Product is changed, RATP 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 RATP 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 : 2021.02.22 15:38:38 +01'00'

Name: Ludovic VERECQUE

Title: General Manager

a. PCD Product Description

[PCD1] Administrative data

[PCD1.1] (*) Brand name: RATP

[PCD1.2] (*) Trade name: RVF

[PCD1.3a] (*) Hardware version: RVF

[PCD1.3b] (*) Software version: CSC1.25b

[PCD1.4] (*) Reference of the contactless reader or antenna module: ASK: CPL528 coupler + ACS580 1.5m cable + ANT581 antenna

[PCD1.4a] (*) Hardware version of the contactless reader or antenna module: CPL528: DE-11005, ANT581: DE-20014

[PCD1.4b] (*) Software version of the contactless reader or antenna module: CSC1.25b

[PCD1.5] (*) EMVCo Approval number (if applicable): NA

The PCD is based on a STA certified PCD (*): Yes

If yes STA PCD certificate number (*): CNAPC/PCD-00022

If yes rationale to justify the delta-certification (*): This product shares the same CPL528 contactless coupler, running the same CSC firmware version, and uses the same remote antenna architecture compared to the already certified reference product. It only differ by a different validation gate housing. Analog measurements may vary, but it does not affect the certified digital tests results

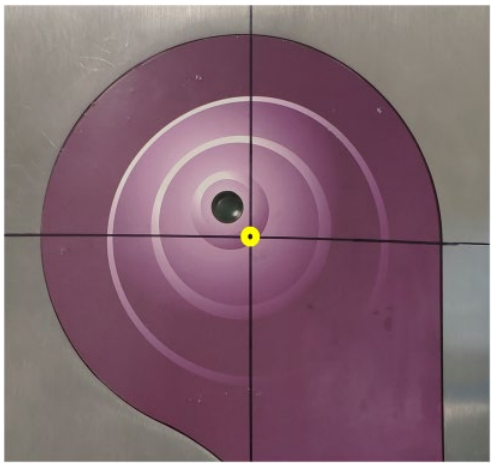
b. PCD General Technical Characteristics

[PCD2.1] (*) PT Reader Type: IFM Reader (Full range A and B)

[PCD2.2] (*) Transaction supported when more than one PICC in the field: No

[PCD2.3] (*) Operational temperature range supported: Class D (-25°C to + 55°C)

[PCD2.7] (*) Reference of the PCD Zero Point – Range A (target ID marked on sample or photo or diagram)



PCD Zero point is located at intersection of the black lines

[PCD2.11] (*) Reference of the PCD Zero Point – Range B (target ID marked on sample or photo or diagram)

Idem Range A

c. PCD Supported Options

[PCD3] Protocol characteristics

[PCD3.1] (*) Other supported communication signal interface(s) or protocol(s): Type A, Type B, B' Innovatron, STM SR, CTS512B

[PCD4] Type A

[PCD4.1] (*) PCD -> PICC bit rates supported: fc/128 (~106 kbit/s)

Other: fc/64 (~212kbit/s) fc/32 (~424kbit/s)

[PCD4.2] (*) PICC -> PCD bit rates supported: fc/128 (~106 kbit/s)

Other: fc/64 (~212kbit/s) fc/32 (~424kbit/s)

[PCD5] Type B

[PCD5.1] (*) PCD -> PICC bit rates supported: fc/128 (~106 kbit/s)

Other: fc/64 (~212kbit/s) fc/32 (~424kbit/s)

[PCD5.2] (*) PICC -> PCD bit rates supported: fc/128 (~106 kbit/s)

Other: fc/64 (~212kbit/s) fc/32 (~424kbit/s)

d. PCD Test Parameters

[PCD6] Test parameters

[PCD6.2c] (*) PCD internal output buffer size (used for Maximum size of UT_APDU): 256 bytes

[PCD6.2d] (*) PCD internal input buffer size (used for Max size of response UT_APDU):

256 bytes