



**PayCert**  
48 rue Montmartre  
75002 Paris  
France

Paris, 06 September 2021

Mr. Mohamed TABET  
STMicroelectronics (Rousset) SAS  
190 Avenue Celestin Cop,  
13106 Rousset Cedex,  
France

***CEN TS 16794 Compliance Certificate - PICC***

*A Smart Ticketing Alliance certification program*

Certificate Number: CNAPC/PIC-00032  
Product/System name: Convego Calypso CD21 Flash 3.2 (FW506)  
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.TABET,

The Certification Body PayCert has received a request, submitted by STMicroelectronics (Rousset) SAS, your company, for the Certification of the PICC product Convego Calypso CD21 Flash 3.2 (FW506) (IC type: ST31G256SQ, Application Type: Calypso Prime Rev3, Antenna : Linxens D-12707), hereafter referred to as the Product and identified above as "Convego Calypso CD21 Flash 3.2 (FW506)".

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.STM.PICC.CEN16794.2017.2021-002 and we have assessed your Test Report(s) (ref. IC.E.RE.2107.008\_v1.0 (Digital)), 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/2021-090 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.



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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](http://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 18. November 2026.

ii) If the Product is changed, STMicroelectronics (Rousset) SAS 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 STMicroelectronics (Rousset) SAS 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



Accréditation n°5-0563  
Portée disponible sur  
[www.cofrac.fr](http://www.cofrac.fr)



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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 506

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

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

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

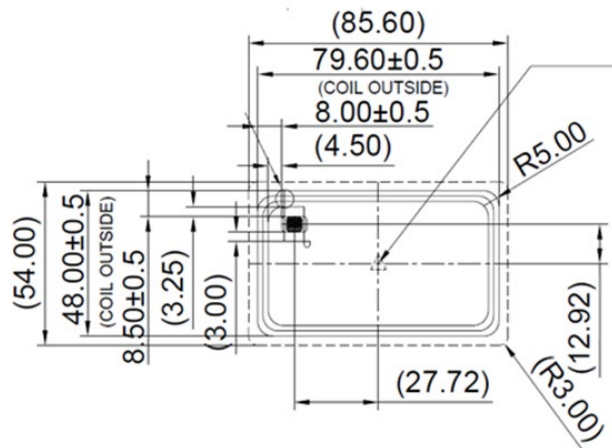
The PICC is based on a STA certified PICC: Yes

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

If yes rationale to justify the delta-certification (\*): SOF modification, the SOF is now centred on 10.25 instead of 10.5 ETU (ISO norm defined SOC between 10 and 11 ETU) in order to be compliant with no ISO reader on Ile de France Region.

### 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