



On behalf of STA

Certification Body : **CNA-PayCert**

48 rue Montmartre

75002 Paris

France

Paris, 23/10/2019

Mr. Bruno BARONNET
Thales DIS France SA
ZI Athelia IV, av. du Jujubier
13705 La Ciotat
France

CEN TS 16794 Compliance Certificate - PICC

Certificate Number: CNAPC/PIC-00008
Product/System name: Celego Calypso G1 Dual Interface (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. Bruno BARONNET,

CNA-PayCert has received a request, submitted by Thales DIS France SA, your company, for the Certification of the PICC product Celego Calypso G1 Dual Interface (IC type: SLE77CLFXPxxxP(M) M7794, Application Type: Rev 01), hereafter referred to as the Product and identified above as "Celego Calypso G1 Dual Interface".

In connection with your request, we have received your Implementation Conformance Statement (ICS), referred to as PAY.GTO.PICC.CEN16794.2017.2018-002 and we have assessed your Test Report(s) (ref. (analog) : KL.E.RE.1806.020 V1.1, (digital) : KL.E.RE.1806.021 V1.1), which was generated by KEOLABS, following the Test Plan "CEN/TS 16794-2:2017".

Based on these elements, as indicated in PayCert's Certification Report (ref. CER/EVR/PIC/2018-053 v1.0.1) 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 (<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 02/09/2020.

ii) If the Product is changed, Thales DIS France SA 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 Thales DIS France SA 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

The present certification letter supersedes the certification letter
ref. CER/CLE/PIC/2018-053 v2.0.0 issued on 30/08/2019

a. PICC Product Description

[PICC1] Administrative data

[PICC1.1] (*) Brand name: Celego Calypso G1

[PICC1.2] (*) Trade name: Celego Calypso G1 DI

[PICC1.3a] (*) Hardware version: SLE77CLFXxxxP(M) M7794

[PICC1.3b] (*) Software version: 1.0

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

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

[PICC1.6] (*) IC reference / size: SLE77CLFXxxxP(M) – 3.9 mm²

b. PICC General Technical Characteristics

[Click here to enter text.](#)

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

ISO Card Center

[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"

c. PICC Supported Options

[PICC3] Protocol characteristics

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

[PICC4] Type A (where applicable)

[PICC4.1] (*) PCD -> PICC bit rates supported: fc/128 (~106 kbit/s)

Other: [Click here to enter text.](#)

[PICC4.2] (*) PICC -> PCD bit rates supported: fc/128 (~106 kbit/s)

Other: [Click here to enter text.](#)

[PICC4.3] (*) Only symmetrical bit rates supported: Yes No

[PICC4.5] (*) UID value: Fixed number Random number

[PICC4.11] (*) S(PARAMETERS) support: Yes No

[PICC5] Type B (where applicable)

[PICC5.1] (*) PCD -> PICC bit rates supported: fc/128 (~106 kbit/s)
Other: fc/64 212 kbits/s

[PICC5.2] (*) PICC -> PCD bit rates supported: fc/128 (~106 kbit/s)
Other: fc/64 212 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: $SFGI = 4 - SFGT = 4.832$ ms

[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