Security Target

ST introduction

The reference of this ST is **FeliCa-CryptoLibrary-ST on TESS v5.2 Rev 02, Rev 03 and TESS 5.2.1 Rev 01, Rev 02, Rev 03** version **v1.2**

TOE

The TOE is an IC Platform composed with the FeliCa Crypto Library. Designed to meet the security functionality of the package "FeliCa Crypto Library" defined in Mobile FeliCa Applet Protection Profile [MFAPP].

TOE reference

The TOE is referred to as **FeliCa-CryptoLibrary on TESS v5.2 Rev 02, Rev 03 and TESS 5.2.1 Rev 01, Rev 02, Rev 03**
and is named and uniquely identified as follows:

- *OS Information data*: GET DATA command using tag 00FE
  - Value for this product:
    FE 15
    06 0A 2B060104012A026E0103
    06 07 D0026115C60115
    (see below for interpretation)
- *Patch Information data*: GET DATA command using tag 00FD
  - Value for this product: see below for list

Field	Value
OS Information - Java Card version - PDM counter - OS release	 2B060104012A026E0103 D0026115C6 0115 (meaning OS Release 1.21)
Patch Information	0009 0000 for Tess v5.2 Rev 02 000A 0000 for Tess v5.2 Rev 03 000B 0000 for Tess v5.2.1 Rev 01 000C 0000 for Tess v5.2.1 Rev 02 000F 0000 for Tess v5.2.1 Rev 03

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Certificate issue date
Hardware IC	S3NSEN6 Rev2	(diced) wafer/module/card	ICCN0291 valid until 20 June, 2027	2022-06-20
Java Card	Tess v5.2 Rev 02 Tess v5.2 Rev 03 Tess v5.2.1 Rev 01	Embedded in the above	PCN0203.03 PCN0203.04 PCN0203.05	2023-02-24

	Tess v5.2.1 Rev 02 Tess v5.2.1 Rev 03		PCN0203.06 PCN0203.07	
FeliCa Crypto library		Embedded in the above	n/a	n/a
Security Guidance		Documentation(*)	n/a	n/a

(*) Documentation:

- D1628124 – 1.1 – Operational guidance on CC platform – TESS v5.2 and TESS v5.2.1
- D1628125 – 1.1 – Operational guidance on CC platforms for Verification Authority – TESS v5.2 and TESS v5.2.1
- D1546158 – 1.1 – Security Technical Note for the guides
- D1516176 – 3.2c – Guidance for Secure application development on Thales Embedded Secure Solutions

The TOE claims the following FeliCa Crypto library packages of the [MFAPP] section 6:
☒DES1 ☐DES2 ☐DES3 ☒AES1 ☒AES2

Information for Composite Evaluations

[CL-ETRfc] has to be assessed as part of any composite evaluation using this Crypto Library.

Conformance claims

This ST does not claim compliance to any PP but it is based on [MFAPP] as it uses the FeliCa Crypto Library packages defined in [MFAPP] Section 6.

This ST claims to be conformant to the Common Criteria version 3.1, revision 5.

This ST is CC Part 2 conformant:

- Exactly, the SFRs of the [MFAPP] Section 6 are included by reference.

The ST is CC Part 3 conformant:

- The assurance package is **EAL4 augmented with AVA_VAN.5 and ALC_DVS.2**.

The rationale behind these claims is the requirement that the FeliCa Approval for Security and Trust (FAST) scheme requires compliance to this [MFAPP] for this TOE type (FeliCa products).

Security Problem Definition

Refer to [MFAPP] Section 6.

Objectives

Refer to [MFAPP] Section 6 and TOE FeliCa Crypto Library algorithms selected in section “TOE overview”.

Extended components definition

Refer to [MFAPP] Section 6.

Security Requirements

Security Functional Requirements

Refer to [MFAPP] Section 6 and TOE FeliCa Crypto Library algorithms selected in section “TOE overview”.

Security Assurance Requirements and Rationale

See section “Conformance claims”.

TOE Summary Specification

The TOE implements the SFRs in accordance to the FeliCa CL specification, sufficiently hardened to counter attackers at AVA_VAN.5 level.

References

[FeliCa-CL-Tool]	FAST FeliCa Crypto Library API Checker tool list version 1.0
[MFAPP]	FeliCa Networks, Inc. Mobile FeliCa Applet Protection Profile, version 1.0
[CL-ETRfc]	Letter_26-0343_FAST-2400149-03_Memo_for_Composition_v1.0 and 25-0317_FAST-2400149-02_F-ETRfC_v1.3

ST revision history

1.0	03-06-2026	Creation from v1.0 template
1.1	24-06-2026	Corrections according to evaluator: TOE Overview and CL-ETRfc reference
1.2	13-10-2026	Final version with final PCN number and updated references