Security Target

ST introduction

The reference of this ST is **Security Target for Mobile FeliCa Applet4 on Connected eSE 5.3.4 v1.2 Rev 02** version **v1.0**

TOE

The TOE is an IC Platform composed with the FeliCa Crypto Lib and the FeliCa Applet. Designed to meet the security functionality of the Mobile FeliCa Applet Protection Profile [MFAPP].

The product is the maintenance of previous Connected eSE 5.3.4 v1.2 Rev 01. Original TOE references were:

- ST Reference: Security Target for Mobile FeliCa Applet4 on Connected eSE 5.3.4 v1.2 Rev 01 version 1.2
- Certificate ID: FAST-2500089-01

Connected eSE 5.3.4 v1.2 Rev 02 adds 9 patches to previous Connected eSE 5.3.4 v1.2 Rev 01 configuration.

TOE reference

The TOE has two configurations, one is Mobile FeliCa Applet4 (version 2.3.9) and another is Mobile FeliCa Applet4 (version 82.3.0), depending on supporting crypto.

The TOE is referred to as **Mobile FeliCa Applet4 on Connected eSE 5.3.4 v1.2 Rev 02**, and is named and uniquely identified by its response to the Request Product Information command sent from a FeliCa Reader/Write, as follows:

Field	Field	Value
Mobile FeliCa Applet4 (version 2.3.9)	**Request Product information**	**0x 02 03 09**
Mobile FeliCa Applet4 (version 82.3.0)	**Request Product information**	**0x 82 03 00**

In addition, the platform and the hardware can be uniquely identified using GET DATA command as follows:

OS Identification

- Identification data: GET DATA command using tag 00FE
- Value for this product:
    - FE 17
        - 06 0C 2B060104012A026E01030100
        - 06 07 D0026A15FA0109 (see below for interpretation)

OS Update (patch info)

- Identification data: GET DATA command using tag 00FD
- Value for this product (see below for interpretation):

- FD 04
  - 000A 0000 (for **Connected eSE 5.3.4 v1.2 Rev02** configuration)

Field	Value
Java Card version	2B060104012A026E01030100
OS information - PDM counter - OS release	 D0026A15FA 0109 (meaning OS Release / Check Point 1.09)
OS update	000A 0000 (meaning OS Revision 0A.00, 10 patches)

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Certificate issue date
Hardware IC	**ST54L**	**(diced) wafer/module/card**	**ICCN0300**	**2023-04-04**
Java Card	**Connected eSE 5.3.4 v1.2 Rev 02**	**Embedded in the above**	**PCN0199.04**	**2026-09-11**
FeliCa Crypto library		**Embedded in the above**	**n/a**	**n/a**
FeliCa applet	**Mobile FeliCa Applet4**	**Embedded in the above**	**n/a**	**n/a**
(Applet) Guidance documentation	**[AGD_Applet]**	**PDF**	**n/a**	**n/a**

The TOE claims the following FeliCa Crypto library packages of the [MFAPP] section 6:
Mobile FeliCa Applet4 (version 2.3.9): DES1 / DES2 / DES3 / AES1 / AES2
Mobile FeliCa Applet4 (version 82.3.0): AES1

Conformance claims

This ST claims strict compliance to the Mobile FeliCa Applet Protection Profile (called "[MFAPP]" in the remainder of this document) under Common Criteria version 3.1, revision 5.
This ST is CC Part 2 conformant:
- Exactly, the SFRs of the [MFAPP] 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 security evaluation scheme requires compliance to this [MFAPP] for this TOE type (FeliCa products).

Security Problem Definition

Refer to [MFAPP].

Objectives

Refer to [MFAPP].

Extended components definition

Refer to [MFAPP].

Security Requirements

Security Functional Requirements

Refer to [MFAPP].

Security Assurance Requirements and Rationale

See section “Conformance claims”.

TOE Summary Specification

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

References

[MFAPP]	FeliCa Networks, Inc. Mobile FeliCa Applet Protection Profile, version 1.0
[AGD_Applet]	Mobile FeliCa OS 4.1 User Manual v1.00, Mobile FeliCa OS 4.1 User Manual for Two Pass Authentication v1.01, Mobile FeliCa Applet4 User Guidance v1.0, Mobile FeliCa Applet4 TAP Interaction User's Manual v1.2, Applet Upgrade Specifications v1.0, Mobile FeliCa IC Chip System Specification for Pre-issuance Process v1.0, Mobile FeliCa Applet Personalisation Specification v1.0, Mobile FeliCa Applet Installation Specification v1.0, FAST FeliCa Crypto Library Specifications for AES1, version 1.0, FAST FeliCa Crypto Library Specifications for AES2, version 1.0, FAST FeliCa Crypto Library Specifications for DES1, version 1.0, FAST FeliCa Crypto Library Specifications for DES2, version 1.0, FAST FeliCa Crypto Library Specifications for DES3, version 1.0,

ST revision history

0.1 Document creation (April 08, 2026)
0.2 General Update and Completion (April 09, 2026)
0.3 Typo correction (April 24, 2026)
0.4 Update of Connected eSE 5.3.4 v1.2 Rev02 configuration (OS update value) (June 30, 2026)
0.5 Scope clarifying. Update the AGD references according to ST template v1.1 (July 09, 2026)
1.0 Final PCN value (September 11, 2026)