

# Security Target

## ST introduction

The reference of this ST is **FeliCa-CryptoLibrary-ST-template-v1.0 - Connected eSE 5.3.4 v1.2** version 1.0

## 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 **Connected eSE 5.3.4 v1.2**, and is named and uniquely identified, as follows:

### Platform :

Identification data                      Get Data command (tag FE)

Value for this product                  FE17060C2B060104012A026E010301000607D0026A15FA0109

Field	Value
Javacard version	06 0C 2B060104012A026E01030100
OS information - PDM counter - OS release	D0026A15FA 0109 (1.9)

## 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
JavaCard	Connected eSE 5.3.4 v1.2	Embedded onto the IC	PCN0199.02(**)	2023-06-30
Crypto libraries	2.9.0	Embedded onto the IC	PCN0199.02(**)	2023-06-30
FeliCa Crypto library		Embedded onto the IC	CCP-SEL2-060	2024-11-26

(\*) ICCN0300 renewal completed, and valid until 04 Apr 2025

(\*\*) PCN0199.02 valid until 30 Jun 2025

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] 24-0356\_F-ETRfC\_v1.0 / FeliCa Evaluation Technical Report for  
Composition – 24-0356 Project – FAST-2400116-01

## ST revision history

- 0.1 Creation with v1.0 template
- 0.2 Update of the ST with additional TOE reference
- 0.3 Update of the ST with additional information on TOE overview
- 1.0 Final version – update of L2 certification ID