Security Target

ST introduction

The reference of this ST is FeliCa-CryptoLibrary-ST-TESSv5.2_v1.0 version 1.3

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 **TESS v5.2**, and is named and uniquely identified using the GetVersion command as follows:

Platform identification data (TESS v5.2)

Identification data	Get Data command (tag FE)
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Value for this product	FE15060A2B060104012A026E01030607D0026115C60115	
ret a lat	Malua	

Field	Value
Javacard version	2B060104012A026E0103
OS information	
- PDM counter	D0026115C6
- OS release	0115 (1.21)

Two patches configurations are available:

Configuration 1:	
Identification data	OS version information (tag FD)
Value for this product	FD0400060000

Field	Value
- OS Patch revision	00060000

Configuration 2:Identification dataOS version information (tag FD)Value for this productFD0400070000

Field	Value
- OS Patch revision	00070000

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification	Certificate
			identifier	issue date
Hardware IC	S3NSEN6 Rev2	(diced)	ICCN0291 (*)	2022-06-20
		wafer/module/card		
JavaCard	TESS v5.2	Embedded in the IC	PCN0203.02(**)	2023-02-24
FeliCa Crypto		Embedded in the IC	CCP-SEL2-061	2024-12-17
library				

(*) ICCN0291 is valid until 20 June 2025

(**) PCN0203.02 is valid until 24 February 2026

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]24-0403_FAST-2400149-01_F-ETRfC_v1.0 / FeliCa Evaluation TechnicalReport for Composition - 24-0403 Project - FAST-2400149-01, version 1.0

ST revision history

- 1.0 Creation with v1.0 template
- 1.1 Update of the ST with additional TOE reference
- 1.2 TOE reference identification
- 1.3 Adding Certification identifier and references