

# Security Target

## ST introduction

The reference of this ST is **Security Target for Mobile FeliCa Applet3 on JCOP 6.6\_SN100 v1.1 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].

## TOE reference

The TOE is referred to as **Mobile FeliCa Applet3 on JCOP 6.6\_SN100 v1.0**, 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
FeliCa applet	<b>Request Product information</b>	<b>0x 43 05</b>

In addition, the platform and the hardware can be uniquely identified as per the JCOP user guidance manual [JCOP- UGM], using the GET DATA command with 0xDF4C tag, as follows:

Field	Tag	Value
JCOP ID	0x82	<b>N5B2M004C7ED0000</b>
Hardware ID	0x8C	<b>0x08</b>
Device Type	0x87	<b>0x64</b>

## TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Certificate issue date
<b>Hardware IC</b>	<b>SN100 B2.1 C25</b>	<b>(diced) wafer</b>	<b>ICCN0254</b>	<b>2018-05-25</b>
<b>JavaCard</b>	<b>JCOP 6.6 "SN100" R1.06.0</b>	<b>Embedded in the above</b>	<b>PCN0156.20</b>	<b>2018-06-19</b>
<b>FeliCa Crypto library</b>	<b>FeliCa Crypto-Library v1.0.0 on JCOP 6.6 "SN100" R1.06.0</b>	<b>Embedded in the above</b>	<b>FAST-2400027-01</b>	<b>2024-05-23</b>
<b>FeliCa applet</b>	<b>Mobile FeliCa Applet3 on JCOP 6.6_SN100</b>	<b>Embedded in the above</b>	<b>n/a</b>	<b>n/a</b>

	<b>v1.0</b>			
<b>Guidance documentation</b>	<b>Mobile FeliCa Applet3 User Guidance v 1.00</b>	<b>Pdf</b>	<b>n/a</b>	<b>n/a</b>

The TOE claims the following FeliCa Crypto library packages of the [MFAPP] section 6:

DES1 DES2 DES3 AES1 AES2

### 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

