

Security Target

ST introduction

The reference of this ST is

Security Target for Mobile FeliCa Applet4 on JCOP-eSE 8.9 R6.02.00.1.1 “SN300”, version 2.1 (24. Mar. 2026)

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 has two configurations, one is Mobile FeliCa Applet4 (version 2.1.C) and another is Mobile FeliCa Applet4 (version 82.1.0), depending on supporting crypto.

The TOE is referred to as **Mobile FeliCa Applet4 on JCOP-eSE 8.9 R6.02.00.1.1 “SN300”**, 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 2.1.C)	Request Product information	0x 02 01 0C
Mobile FeliCa Applet4 (version 82.1.0)	Request Product information	0x 82 01 00

In addition, the platform and the hardware can be uniquely identified as **JCOP-eSE 8.9 R6.02.00.1.1 on SN300** as follows:

GET VERSION QUERY command on wired interface to ISD or CASD; see [AGD1], [AGD2] ([AGD1] gives version information for the JCOP OS, while [AGD2] gives the version for the System OS).

Field	Field	Value
JCOP ID	0x82	N5F0000000020600
HW ID	0x8C	0x4B (SN300 B5)

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Certificate issue date
Hardware IC	SN300_SE B5.1.002 JD	Diced wafer	ICCN0302	17 Mar. 2022
JavaCard	JCOP-eSE 8.9 R6.02.00.1.1 (R6-02)	Embedded in the above	PCN0206.06	24 Mar. 2026

FeliCa Crypto library	FeliCa Crypto-Library v6.1.5	Embedded in the above	n/a	n/a
FeliCa applet	Mobile FeliCa Applet4	Embedded in the above	FAST-2500116-01	n/a
(Applet) Guidance documentation	Mobile FeliCa Applet4 User Guidance v1.0	PDF	n/a	n/a
Security Guidance	JCOP 8.9 R6.02 (SN300) I3C User Guidance Manual, Rev. 1.0.1, 18 Feb. 2026	Documentation	Part of PCN	Part of PCN
	JCOP 8.9 R6.02 (SN300) I3C User Guidance Manual Addendum System Management, Rev. 1.0.0, 03. Dec. 2025			
	JCOP-eSE 8.9 R6.02 (SN300) I3C User Guidance Manual for JCOP eSE, Rev. 1.0.1, 18 Feb. 2026			
	JCOP-eSE 8.9 R6.02 (SN300) I3C User Guidance Manual Addendum for JCOP eSE, Rev. 1.0.0, 03 Dec. 2025			
	JCOP 8.9 R6.02 (SN300) I3C, CSP User Manual Addendum, Rev. 1.0.0, 03 Dec. 2025			
	JCOP 8.9 R6.02 (SN300) I3C Amd I SEMS Application User Manual Addendum,			

	Rev. 1.0.0, 03 Dec. 2025			
	JCOP 8.9 R6.02 (SN300) I3C Errata Sheet, Rev. 1.0.0, 03 Dec. 2025			

The TOE claims the following FeliCa Crypto library packages of the [MFAPP] section 6:
Mobile FeliCa Applet4(version 2.1.C/2.3.9/2.4.2): DES1 / DES2 / ~~DES3~~ / AES1 / AES2
Mobile FeliCa Applet4(version 82.1.0): AES1

Note: JCOP-SE 8.9 R6.02.00.1 is a system level identifier. It can also be referred as JCOP-SE 8.9 R6-02. The System hosts multiple guest OS which use a 4th identifier byte to differentiate.

<u>JCOP 8.9</u>	<u>OS</u>
JCOP-SE 8.9 R6.02.00.1	<u>System Identifier</u>
JCOP-eSE 8.9 R6.02.00.1.1	<u>eSE OS Identifier</u>
JCOP-eUICC 8.9 R6.02.00.1.2	<u>eUICC OS Identifier</u>

Only the eSE OS “JCOP-eSE 8.9 R6.02.00.1.1” supports Felica, therefore user guidance documents related to the eUICC OS are not relevant.
Further JCOP-eUICC and related JCOP-SE can exist.

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
[AGD1]	JCOP 8.9 R6.02 (SN300) I3C User Guidance Manual, Rev. 1.0.1, 18 Feb. 2026
[AGD2]	JCOP 8.9 R6.02 (SN300) I3C User Guidance Manual Addendum System Management, Rev. 1.0.0, 03. Dec. 2025