

Security Target

ST introduction

The reference of this ST is **MIFARE Plus EV2 on N7122 Security Target** version **1.5**, dated **30-08-2022**.

TOE

The TOE is **an open platform** implementing the MIFARE specification [**MIFARE-PLUS-EV2**] and the access control in the MIFARE services.

See PP(s) for details.

TOE reference

The TOE is referred to as **MIFARE Plus EV2 on N7122**, and is named and uniquely identified using the GetVersion command as follows:

Field	Value
VendorID	0x04
HWMajorVersion	0x42
HWMinorVersion,	0x01
SWMajorVersion	0x02
SWMinorVersion	0x00

In addition, the platform can be uniquely identified using the GET DATA IDENTIFY command with 0xDF28 tag. Response data tag 0x03 identifies Platform ID as J3R6000373181200 in ASCII format.

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Certificate issue date
Hardware IC & CL: NXP Secure Smart Card Controller N7122 with IC Ded. SW and CL		wafer	ICCN0288	07 Apr 2022
Java Card: JCOP 4.5 P71		Embedded in the above	PCN0196	04 May 2022
MIFARE application: MIFARE Plus EV2 in JCOP 4.5 P71 SecureBox		Embedded in the above	P2A_2207_003	26 July 2022

Only (pre-)personalisation guidance is provided. No operational guidance other than the MIFARE specifications is provided.

Any (pre-)personalisation performed by the developer of the TOE on behalf of its customers will lead to a state identical to states possible by executing the MIFARE commands for personalisation.

Conformance claims

This ST claims strict compliance to [**MIFARE PLUS PP**] (called “PP(s)” in the remainder of this document) under Common Criteria version 3.1, revision 5.

Exactly the SFRs of the PP(s) are included by reference, no omissions nor additions have been made. The ST is therefore CC Part 2 conformant.

The assurance package is **EAL4 augmented with AVA_VAN.5 and ALC_DVS.2**. The ST is therefore CC Part 3 conformant.

The rationale behind this claim is the requirement that the MIFARE security evaluation scheme requires compliance to this PP(s) for this TOE type (MIFARE products).

Security Problem Definition

See PP(s).

Objectives

See PP(s).

Extended components definition

There are no extended components, see PP(s).

Security Requirements

Security Functional Requirements

See PP(s). Note that the PP has no open operations.

Security Assurance Requirements

See section “Conformance claims”.

Rationale

See PP(s).

TOE Summary Specification

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

References

[MIFARE PLUS PP]	MIFARE PLUS EV0/EV1/EV2 Protection Profile v1.4
[<u>MIFARE-PLUS-EV2</u>]	<u>MIFARE Plus EV2 Reference Architecture and Interface Specification</u> <u>rev 3.0</u>