# Security Target

### ST introduction

The reference of this ST is "MIFARE\_DESFire\_EV2\_on\_N7121\_Security\_Target" version 1.4\_4 date 2022.05.31.

#### TOE

The TOE is **an open platform** implementing the MIFARE specification **[MIFARE-DES-EV2]** and the access control in the MIFARE services. See PP(s) for details.

### TOE reference

The TOE is referred to as "MIFARE DESFire EV2 on N7121", and is named and uniquely identified using the GetVersion command as follows:

identified doing the detversion command as follows.				
Field	Value			
VendorID	0x04			
HWMajorVersion	0x42			
HWMinorVersion,	0x00			
SWMajorVersion	0x02			
SWMinorVersion	0x00			
SW Sub-Type	0x05			
BatchNo[4]	0x1C			

### TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification	Certificate
			identifier	issue date
NXP Secure	N7121 B1	wafer	ICCN0258	2018-11-22
Smart Card				
Controller			ICCNIGATO	2040 44 22
N7121 with IC			ICCN0259	2018-11-22
Ded. SW and CL				
MIFARE applet	v2.0.0.28	Embedded in the	D2C_2205_004	2022-05-26
		above	MF-1800002-03	tbd

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 DESFIRE 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-DES-EV2] MIFARE DESFire EV2 Reference Architecture, Rev. 1.4 (ra321914) [MIFARE DESFIRE PP] MIFARE DESFire EV1/EV2/EV3 Protection Profile v1.3