# Security Target

#### ST introduction

The reference of this ST is "MIFARE DESFire EV2 on N7121(D) Security Target" version 1.1, date 12-04-2019.

#### TOE

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

#### TOE reference

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

Field	Value
VendorID	0x04
HWMajorVersion	0x42
HWMinorVersion,	0x00
SWMajorVersion	0x02
SWMinorVersion	0x00
SW Sub-Type	<u>0x05</u>
BatchNo[4]	<u>0x00</u>

#### **TOE** overview

#### The TOE consists of the following:

TOE component	Identification	Form of	Certfication	Date of certificate
		delivery	identifier	issue
NXP Secure	Implicitly,	wafer	ICCN0258	22 Nov 2018
Smart Card	according to			
Controller N7121	"TOE		ICCN0259	22 Nov 2018
with IC Ded. SW	reference"			
and CL				
MIFARE DESFire	see "TOE	Embedded in	MF-1900001-01	Subject to this
EV2 Firmware	reference"	the above		certification
Implementation				
(Pre-			n/a	n/a
)personalisation				
documentation				

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

#### Conformance claims

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

Exactly the SFRs of the PP 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 for this TOE type (MIFARE products).

# Security Problem Definition

See PP.

## **Objectives**

See PP.

## Extended components definition

There are no extended components, see PP.

## Security Requirements

Security Functional Requirements

See PP. Note that the PP has no open operations.

## Security Assurance Requirements

See section "Conformance claims".

#### Rationale

See PP.

# **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 DESFIRE PP] MIFARE DESFire Protection profile v0.4 [MIFARE-DES-EV2] MIFARE DESFire EV2 – Functionality of Implementation on N7121, Rev. 3.0, 5 December 2018