Security Target

ST introduction

The reference of this ST is "**MIFARE_DESFire_EV2_on_N7121(D)_Security_Target**" version **1.4_2** date **2022.03.21**.

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(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	**0x05**
BatchNo[4]	**0x00**

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Certificate issue date
NXP Secure Smart Card Controller N7121 with IC Ded. SW and CL	**N7121 B1**	**wafer**	**ICCN0258**	**2018-11-22**
			ICCN0259	**2018-11-22**
MIFARE applet	**v1.11.0**	**Embedded in the above**	**D2C_1904_001**	**2019-04-19**
			MF-1900001-03	**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