# Security Target

## ST introduction

The reference of this ST is "MIFARE Plus EV1 in JCOP 4 R1.00 SecureBox on N7121 Security Target" version 1.7, date 26-08-2019.

#### TOE

The TOE is **an open platform** implementing the MIFARE specification [**MIFARE-Plus-EV1**] and the access control in the MIFARE services. See PP for details.

## TOE reference

The TOE is referred to as "MIFARE Plus EV1 in JCOP 4 R1.00 SecureBox on N7121", and is named and uniquely identified using the GetVersion command as follows:

Field	Value
VendorID	0x04
HWMajorVersion	0x41
HWMinorVersion,	0x00
SWMajorVersion	0x01
SWMinorVersion	0x00
SW Sub-Type	<u>0x06</u>
BatchNo[4]	<u>0x0E</u>

<u>In addition, the Platform ID is retrieved using the GET DATA – IDENTIFY command with tag 0x80CA. The 0x03 tag is returning the Platform build ID as specified in [JCOP-UGM]:</u>

Field	Value
Platform build ID	4A335233353130314641394530343030DD0984593B0048EF

## **TOE** overview

The TOE consists of the following:

TOE component	Identification	Form of	Certfication	Date of
		delivery	identifier	certificate issue
NXP Secure Smart	Implicitly,	wafer	BSI-DSZ-CC-1040-	14 June 2019
Card Controller	according to		2019	
N7121 with IC	"TOE			
Ded. SW and CL	reference"			
JCOP 4 P71	Implicitly, according to "TOE reference"	Embedded in the above	NSCIB-CC-180212	23 July 2019
MIFARE Plus EV1 in JCOP 4 R1.00 P71 SecureBox	see "TOE reference"	Embedded in the above	MF-1800003-01	Subject to this certification

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 PLUS 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 PLUS PP] MIFARE PLUS Protection profile v0.4

[MIFARE-Plus-EV1] MIFARE Plus EV1 – Functionality of Implementation on N7121 VA,

Rev. 3.1, 19 March 2018

[JCOP-UGM] JCOP 4 P71 – User manual for JCOP 4 P71, User Guidance and Administrator Manual, Rev. 3.7 - 20190531