Security Target

ST introduction The reference of this ST is "MIFARE Plus EV1 in JCOP 4 R1.00 SecureBox on N7121_Security_Target" version 1.4_2 date 2022.06.08.

TOE

The TOE is **an open platform** implementing the MIFARE specification [MIFARE-PLUS-EV1] and the access control in the MIFARE services. See PP(s) 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	0x06
BatchNo[4]	0x0E

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]:

Field	Value
Platform build ID	4A335233353130314641394530343030DD0984593B0048EF

TOE overview

The TOE consists of the following:

			1	
TOE component	Identification	Form of delivery	Certification	Certificate
			identifier	issue date
NXP Secure	N7121 B1	wafer	BSI-DSZ-CC-	14 June 2019
Smart Card			1040-2019	
Controller				
N7121 with IC				
Ded. SW and CL				
JCOP 4 P71	JCOP 4 P71	Embedded in the	NSCIB-CC-	23 July 2019
	SPM71 FP1	above	180212	
MIFARE Plus	v9.2.3	Embedded in the	P1A_1906_001	01 July 19
EV1 in JCOP 4		above	MF-1800003-03	tbd
R1.00				
SecureBox				

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-EV1]	MIFARE Plus EV1 Reference Architecture and Interface Specification,
	Rev. 1.6 (ra385514)
[MIFARE PLUS PP]	MIFARE PLUS EV0/EV1/EV2 Protection Profile v1.3