

Security Target

ST introduction

The reference of this ST is Secure Element J5O1M60121980100 with MIFARE DESFire EV2 1.0.4.10 Security Target version **1.2**, date **25.09.2018**.

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 **Secure Element J5O1M60121980100 with MIFARE DESFire EV2 1.0.4.10** and is named and uniquely identified using the GetVersion command as follows:

Field	Value
VendorID	0x04
HWMajorVersion	0x52
HWMinorVersion,	0x00
SWMajorVersion	0x02
SWMinorVersion	0x00
SW Type	0x91
SW Sub-Type	0x40

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Date of certificate issue
ICCN0234		(diced) wafer/module/card		2016-08-29
Crypto libraries	Crypto Library v1.0.8 only for B0.2C0	Included in the ICCN0234		2016-08-29
JavaCard		Included in the PCN0136		2016-11-29
MIFARE applet				
(Pre-)personalisation documentation			n/a	n/a

~~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-DES-EV2] MIFARE DESFire Protection profile v0.4