

Security Target

ST introduction

The reference of this ST is **Upteq NFC422 v1.0 with Mifare Desfire EV1/M4Mv2 Security Target version 1.1, dated 07.08.2019.**

TOE

The TOE is **an open platform** implementing the MIFARE specification [**MIFARE-DES-EV1**] and the access control in the MIFARE services.

See PP(s) for details.

TOE reference

The TOE is referred to as **Upteq NFC422 v1.0 with Mifare Desfire EV1/M4Mv2**, and is named and uniquely identified using the GetVersion command as follows:

Applet identification data (DESFIRE EV1)

Field	Value
VendorID	0x40 (ISO affected value by NXP to Gemalto)
HWMajorVersion	0x01
HWMinorVersion,	0x00
SWMajorVersion	0x01
SWMinorVersion	0x02

Applet identification data (M4M v2)

Field	Value
VendorID	0x47454D414C544F ("GEMALTO" ASCII in Hex)
HWMajorVersion	Not required
HWMinorVersion,	Not required
SWMajorVersion	0x04
SWMinorVersion	0x00

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Date of certificate issue
S3NSEN4 rev1		(diced) wafer/module/car d	ICCN0262	18.05.2019
Crypto libraries		Included in the PCN0168	PCN0168	29.05.2019
JavaCard		Included in the PCN0168	PCN0168	29.05.2019
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(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 DESFIRE PP] MIFARE DESFire Protection Profile v1.0

ST revision history

1.0 Creation

1.1 Update TOE name/version, add M4Mv2 identification data, and add PCN number and certificate issue date