Security Target

ST introduction

The reference of this ST is **Connected eSE 5.3.4 v1.2 Rev02 with MIFARE Desfire EV1/M4Mv2 Security Target, version v1.1**

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.

Original TOE references for Connected eSE 5.3.4 v1.2 configurations are:

- ST Reference: Connected eSE 5.3.4 v1.2 with MIFARE Desfire EV1/M4Mv2 Security Target
- Certificate ID: MF-2400115-01
- Letter of Approval (functional): MIFARE4Mobile_PC0I_2409_001

Connected eSE 5.3.4 v1.2 Rev 02 adds 10 patches to previously evaluated Connected eSE 5.3.4 v1.2 configuration.

TOE reference

The TOE is referred to as **Connected eSE 5.3.4 v1.2 Rev 02 with MIFARE Desfire EV1/M4Mv2,** and is named and uniquely identified as follows:

Platform identification data
OS Identification

- Identification data: GET DATA command on ISD application using tag 00FE
- Value for this product for both configurations:
    - FE 17
        - 06 0C 2B060104012A026E01030100
        - 06 07 D0026A15FA0109 (see below for interpretation)

OS Update (patch info)

- Identification data: GET DATA command on ISD application using tag 00FD
- Value for each configuration of this product:
    - FD 04 (see below for interpretation)
        - 000A 0000 for **Connected eSE 5.3.4 v1.2 Rev 02** configuration

Field	Value
OS identification: - Java Card version	2B060104012A026E01030100
OS identification: - PDM counter - OS release	D0026A15FA 0109 (meaning OS Release / Check Point 1.09)
OS update	000A 0000 (meaning Patch 0A.00: 10 patches)

Applet identification data (DESFIRE EV1)

Field	**Value**
VendorID	40 (ISO affected value by NXP to GTO)
HWMajorVersion	01
HWMinorVersion	00
SWMajorVersion	01
SWMinorVersion	02

Applet identification data (M4M v2)

Field	Value
VendorID	47454D414C544F
HWMajorVersion	Not required
HWMinorVersion	Not required
SWMajorVersion	04
SWMinorVersion	01

TOE overview

The TOE consists of the following:

TOE component	Identification	Form of delivery	Certification identifier	Certificate issue date
Hardware IC	**ST54L**	**(diced) wafer/module/card**	**ICCN0300**	**2023-04-04**
Crypto libraries		**Embedded onto the IC**	**PCN0199.04**	**2026-09-11**
Java Card	**Connected eSE 5.3.4 v1.2 Rev02**	**Embedded onto the IC**	**PCN0199.04**	**2026-09-11**
MIFARE applet		**Embedded onto the IC**	**MIFARE4Mobile_PC0I_2610_001**	**2026-10-15**
(Pre)personalisation documentation	[AGD-DESFIRE] [AGD-M4M]	**Document**	**n/a**	**n/a**
Platform guidance[1]	See Guidance listed in appropriate Jave Card PCN	**Document**	**PCN0199.04**	**2026-09-11**

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.

[1] As the platform remains in Open mode, the platform guidance applies for applet development.

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-EV1]	MIFARE DESFire EV1 Interface Specification, Rev. 1.1 (ts335111)
[MIFARE DESFIRE PP]	MIFARE DESFire EV1/EV2/EV3 Protection Profile v1.5
[AGD-DESFIRE]	MIFARE – AGD MIFAREDesFireEV1 v1.1.pdf
[AGD-M4M]	MIFARE – AGD M4Mv2 v1.1.pdf

ST revision history

0.1 Creation with v1.5 template
0.2 Clarifying of name and scope
0.3 Update MIFARE and Platform guidance references. Add expected PCN number.
1.0 Final PCN value
1.1 Update TOE reference name. Update Certificate Identifiers and dates (MIFARE4Mobile_PC0I_2610_001 and PCN0199.04)