Security Target

ST introduction
The reference of this ST is MIFARE Plus EV2 on N7122 Security Target version 1.5, dated 30-08-2022.

TOE
The TOE is an open platform implementing the MIFARE specification [MIFARE-PLUS-EV2] and the access control in the MIFARE services. See PP(s) for details.

TOE reference
The TOE is referred to as MIFARE Plus EV2 on N7122, and is named and uniquely identified using the GetVersion command as follows:

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VendorID</td>
<td>0x04</td>
</tr>
<tr>
<td>HWMajorVersion</td>
<td>0x42</td>
</tr>
<tr>
<td>HWMinorVersion</td>
<td>0x01</td>
</tr>
<tr>
<td>SWMajorVersion</td>
<td>0x02</td>
</tr>
<tr>
<td>SWMinorVersion</td>
<td>0x00</td>
</tr>
</tbody>
</table>

In addition, the platform can be uniquely identified using the GET DATA IDENTIFY command with 0xDF28 tag. Response data tag 0x03 identifies Platform ID as J3R6000373181200 in ASCII format.

TOE overview
The TOE consists of the following:

<table>
<thead>
<tr>
<th>TOE component</th>
<th>Identification</th>
<th>Form of delivery</th>
<th>Certification identifier</th>
<th>Certificate issue date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware IC &amp; Cl: NXP Secure Smart Card Controller N7122 with IC Ded. SW and Cl</td>
<td>wafer</td>
<td>ICCN0288</td>
<td>07 Apr 2022</td>
<td></td>
</tr>
<tr>
<td>Java Card: JCOP 4.5 P71</td>
<td>Embedded in the above</td>
<td>PCN0196</td>
<td>04 May 2022</td>
<td></td>
</tr>
<tr>
<td>MIFARE application: MIFARE Plus EV2 in JCOP 4.5 P71 SecureBox</td>
<td>Embedded in the above</td>
<td>P2A_2207_003</td>
<td>26 July 2022</td>
<td></td>
</tr>
</tbody>
</table>

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 PP] MIFARE PLUS EVO/EV1/EV2 Protection Profile v1.4