

Assurance Continuity Maintenance Report

NXP SN330 A0 Series - Secure Element SN330_SE A0.1.000 J20

Sponsor and developer: **NXP Semiconductors GmbH**
Beiersdorfstraße 12
22529 Hamburg
Germany

Evaluation facility: **TÜV Informationstechnik GmbH**
Am TÜV 1
45307 Essen
Germany

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Author(s): **Kjartan Jæger Kvassnes**

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1 Summary

The IT product identified in this report was assessed according to the Assurance Continuity: CCRA Requirements [AC], the developer's Impact Analysis Report [IAR] and evaluator's assessment [EA]. The baseline for this assessment was the Certification Report [CR], the Security Target and the Evaluation Technical Report of the product certified under NSCIB, reference NSCIB-CC-2400072-01.

The changes to the certified product are related to maintenance of the underlying hardware without change of the software. The identification of the maintained product is modified to NXP SN330 A0 Series - Secure Element SN330_SE A0.1.000 J20.

Consideration of the nature of the changes leads to the conclusion that they can be classified as minor changes and that certificate maintenance is the correct path to continuity of assurance.

The resistance to attacks has not been re-assessed in the course of this maintenance process. Therefore, the assurance as outlined in the Certification Report [CR] is maintained for the new version of the product.

This report is an addendum to the Certification Report NSCIB-CC-2400072-01 CR [CR] and reproduction is authorised provided the report is reproduced in its entirety.

2 Assessment

2.1 Introduction

The IT product identified in this report was assessed according to the Assurance Continuity: CCRA Requirements [AC], the developer's Impact Analysis Report [IAR] and evaluator's assessment [EA]. The baseline for this assessment was the Certification Report [CR], the Security Target and the Evaluation Technical Report of the product certified by the NSCIB under CC-2400072-01.

On 23 January 2025 NXP Semiconductors GmbH submitted a request for assurance maintenance for the NXP SN330 A0 Series - Secure Element SN330_SE A0.1.000 J20.

NSCIB has assessed the [IAR] according to the requirements outlined in the document Assurance Continuity: CCRA Requirements [AC].

In accordance with those requirements, the IAR describes (i) the changes made to the certified TOE, (ii) the evidence updated as a result of the changes and (iii) the security impact of the changes.

This is supported by the evaluator's assessment [EA].

2.2 Description of Changes

The TOE is Security a Integrated Circuit Platform for operating systems and applications with high security requirements. The SN330 A0 Single Chip Secured (NFC) Controller Series combines on a single die an Embedded Secure Element and a NFC Controller. The two subsystems are called "SN330_SE" and "SN330_NFC". The NFC Controller is not part of the TOE. The Embedded Secure Element SN330_SE is based on a Flash-based secure microcontroller platform. A high frequency clocked ARM Cortex M33 core along with state of the art cryptographic hardware coprocessors brings secured applications to a new level in performances and security. The TOE is integral part of the SN330 A0 IC.

The applied changes are described in [IAR] and summarised as follows:

- Addition of TSMC Fab12 to the TOEs life-cycle,
- The certificate for TSMC Fab14A was updated without impact to this TOE,
- Adjustment of the trim value for the temperature sensor to support operations at lower temperatures.

As the values in the factory page are adjusted this leads to a new configuration namely SN330 A0 Secure Element J20. No other changes have been introduced, i.e., the TOE consists of the identical set of hardware and IC dedicated software.

This update was classified by developer [IAR] and original evaluator [EA] as minor changes with no impact on security.

There are no changes in the software component of the TOE.

3 Conclusion

Consideration of the nature of the changes leads to the conclusion that they can be classified as minor changes and that certificate maintenance is the correct path to continuity of assurance.

The resistance to attacks has not been re-assessed in the course of this maintenance process. Therefore, the assurance as outlined in the Certification Report [CR] is maintained for this version of the product.

4 Bibliography

This section lists all referenced documentation used as source material in the compilation of this report:

- [AC] Assurance Continuity: CCRA Requirements, Version 2.2, 30 September 2021
- [CR] Certification Report NXP SN330 A0 Series - Secure Element SN330_SE A0.1.000 J10, NSCIB-CC-2400072-01-CR, 12 December 2024
- [EA] Evaluation Technical Report Summary (ETR Summary), NSCIB-CC-2400072-01-MA1, Version 2, dated 28 May 2025
- [ETRfC_Add] Evaluation Technical Report Summary (ETR Summary) for Composite Evaluation (ETR COMP) for the SN330_SE A0.1.000 J20, version 2.0, dated 28 May 2025
- [IAR] SN330 A0 Series - Secure Element Impact Analysis Report, version 0.4, dated 01 April 2025
- [NSCIB] Netherlands Scheme for Certification in the Area of IT Security, Version 2.6, 02 August 2022
- [ST] NXP SN330 A0 Series - Secure Element Security Target, Rev 1.3, Dated 10 January 2025
- [ST-lite] NXP SN330 A0 Series - Secure Element Security Target Lite, Rev 1.3, Dated 10 January 2025

(This is the end of this report).