



## Assurance Continuity Maintenance Report

**BSI-DSZ-CC-1072-V5-2022-MA-02**

**NXP Secure Smart Card Controller P6021y VB\*  
including IC Dedicated Software**

from

**NXP Semiconductors Germany GmbH**



SOGIS  
Recognition Agreement

The IT product identified in this report was assessed according to the procedures on Assurance Continuity [1] and the developer's Impact Analysis Report (IAR). The baseline for this assessment was the Certification Report, the Security Target and the Evaluation Technical Report of the product certified by the Federal Office for Information Security (BSI) under BSI-DSZ-CC-1072-V5-2022 updated by BSI-DSZ-CC-1072-V5-2022-MA-01.

The certified product itself did not change. The changes are related to an update of life cycle security aspects.

Considering the nature of the change leads to the conclusion that it is classified as a minor change 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 statement as outlined in the Certification Report BSI-DSZ-CC-1072-V5-2022 dated 12 December 2022 is of relevance and has to be considered when using the product. Details can be found on the following pages.

This report is an addendum to the Certification Report BSI-DSZ-CC-1072-V5-2022.



Common Criteria  
Recognition Arrangement  
recognition for components  
up to EAL 2 and ALC\_FLR  
only

Bonn, 18 October 2024

The Federal Office for Information Security



## Assessment

The IT product identified in this report was assessed according to the procedures on Assurance Continuity [1] and the Impact Analysis Report (IAR) [2]. The baseline for this assessment was the Certification Report of the certified product (Target of Evaluation, TOE) [3], its Security Target and the Evaluation Technical Report as outlined in [3].

The vendor for the NXP Secure Smart Card Controller P6021y VB\* including IC Dedicated Software, NXP Semiconductors Germany GmbH, submitted an IAR [2] to the BSI for approval. The IAR is intended to satisfy the requirements according to the procedures on Assurance Continuity [1]. 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.

The certified product itself did not change.

The changes are related to an update of life cycle security aspects. The ALC re-evaluation was performed by the ITSEF TÜV Informationstechnik GmbH. The procedure led to an updated version of the Evaluation Technical Report (ETR) [5]. The ETR for Composition [6] was not renewed.

The Common Criteria assurance requirements for ALC are fulfilled as claimed in the Security Target [4]. The Security Target did not change.

The development and production sites as listed in Annex B of the certification report [3] were updated by this partial ALC re-evaluation as listed below:

Name of Site	Company Name / Address	Function
NXP Hamburg	NXP Semiconductors Germany GmbH Beiersdorfstraße 12 22529 Hamburg Germany	Project management, central design database, HW/FW/SW development and verification, security architecture and evaluation, flaw remediation, trust provisioning, and customer support, IT support.
NXP Eindhoven	NXP Semiconductors Eindhoven HTC-46.3-west (Development Center) Building 46, High Tech Campus 5656AE, Eindhoven The Netherlands	HW/FW/SW development, security architecture, IT engineering and generic support.
Sii Gdansk	Sii Olivia Prime Building, 10th floor, Grunwaldzka 472E 80-309 Gdansk Poland	SW development
NXP Nijmegen	NXP Semiconductors Nijmegen B.V. Gerstweg 2 6534AE Nijmegen The Netherlands	Development support (sample preparation, design data verification), Failure analysis lab
NXP Gratkorn	NXP Semiconductors Austria GmbH Mikronweg 1	Document control

	8101 Gratkorn Austria	
NXP Bangalore	NXP India Private Limited Manyata Technology Park, Nagawara Village, Kasaba Hobli, Bangalore 560 045 India	Data center
Digital Realty Phoenix	Digital Realty Data Center 120 E Van Buren St, Phoenix AZ 85004 U.S.A.	Data center
AtlasEdge / Colt Hamburg	AtlasEdge Datacenter Hamburg Obenhauptstrasse 1C 22335 Hamburg Germany	Data Center
Akquinet Hamburg	Akquinet Datacenter Hamburg Ulzburger Strasse 201 22850 Norderstedt Germany	Data center
Equinix Singapore	EQUINIX 20 Ayer Rajah Crescent, IBX SG1, Level 5 Unit 5, Ayer Rajah Industrial Park 139964 Singapore	Data center
NXP Bucharest	NXP Semiconductors Romania Campus 6, Bulevardul Iuliu Maniu 6L, 061103 București Romania	IT engineering and support.
NXP Guadalajara	NXP Guadalajara Periferico Sur #8110 Col. El Mante JALISCO, 45609 Tlaquepaque Mexico	IT engineering and support.
NXP Master IT	NXP Semiconductors HTC Building 60 High Tech Campus 5656 AE Eindhoven Netherlands	Virtual IT Network and Administration site
TSMC Tainan and Hsinchu	Taiwan Semiconductor Manufacturing Company Limited Fab 14A: 1-1, Nan-Ke North Rd., Tainan Science Park, Tainan 741-44, Taiwan, R.O.C., Fab 2 and 5: 121, Park Ave. 3, Hsin-chu Science Park, Hsin- chu 300-77, Taiwan, R.O.C., Fab 8: 25, Li-Hsin Rd., Hsinchu Science Park, Hsinchu, 300-78 Taiwan, R.O.C.	Mask production and diffusion (wafer production)
NXP Hamburg TC <sup>1</sup>	See NXP Hamburg	See NXP Hamburg
NXP ATBK	NXP Semiconductors Thailand (ATBK) 303 Moo 3 Chaeng-wattana Rd. Laksi Bangkok 10210 Thailand	Wafer testing, wafer treatment, assembly, and Final Test. Test program development

1 NXP Hamburg TC (formerly TCE-H) was formerly a separate site for the production services (wafer testing and wafer treatment) at site NXP Hamburg. These services are now covered by the certificate of NXP Hamburg.

		Failure analysis lab. Delivery
NXP ATKH	NXP Semiconductors Taiwan Ltd (ATKH) 10, Chin 5th Road, N.E.P.Z Kaohsiung 81170 Taiwan R.O.C	Wafer testing, wafer treatment, assembly, and Final Test. Test program develop- ment. Failure analysis lab. Delivery
Linxens Ayutthaya	AY1, Linxens (Thailand) Co Ltd. 142 Moo, Hi-Tech Industrial Estate Tambon Ban Laean, Amphor Bang-Pa-In 13160 Ayutthaya Thailand	Inlay assembly
HID Global Malaysia	HID Global Sdn. Bhd. No. 2, Jalan i-Park 1/1 Kawasan Perindustrian i-Park Bandar Indahpura 81000 Kulai, Johor Malaysia	Inlay production
SSMC Singapore	Systems on Silicon Manufacturing Co. Pte. Ltd., 70 Pasir Ris Industrial Drive 1, Singapore 519527	Wafer production, mask data generation, mask shipping
Weber Suedergellersen	Firma C. Weber, Leiterplattenverarbeitung, Alter Kirchsteig 7, 21394 Suedergellersen, Germany	Board assembly

Table 1: Development and production sites

Please note that the sites Weber Suedergellersen and SSMC Singapore are not actively used for the TOE. The respective audits were done to be included in this re-evaluation and to be reused in later evaluations.

The partial ALC re-evaluation resulted in updated STARs for ALC-Reuse for the following sites:

- Weber Suedergellersen [7]
- SSMC Singapore [8]

## Conclusion

The maintained change is at the level of life cycle security aspects. The change has no effect on product assurance.

Considering the nature of the change leads to the conclusion that it is classified as a minor change 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 statement as outlined in the Certification Report BSI-DSZ-CC-1072-V5-2022 dated 12 December 2022 is of relevance and has to be considered when using the product.

## Obligations and notes for the usage of the product:

All aspects of assumptions, threats and policies as outlined in the Security Target not covered by the TOE itself need to be fulfilled by the operational environment of the TOE.

The customer or user of the product shall consider the results of the certification within his system risk management process. In order for the evolution of attack methods and techniques to be covered, he should define the period of time until a re-assessment for the TOE is required and thus requested from the sponsor of the certificate.

Some security measures are partly implemented in the hardware and require additional configuration or control or measures to be implemented by the IC Dedicated Support Software or Embedded Software.

For this reason the TOE includes guidance documentation which contains guidelines for the developer of the IC Dedicated Support Software and Embedded Software on how to securely use the microcontroller chip and which measures have to be implemented in the software in order to fulfil the security requirements of the Security Target of the TOE.

In the course of the evaluation of the composite product or system it must be examined if the required measures have been correct and effectively implemented by the software. Additionally, the evaluation of the composite product or system must also consider the evaluation results as outlined in the document ETR for composite evaluation [6].

According to the scheme rules, evaluation results outlined in the document ETR for composite evaluation as listed above can usually be used for composite evaluations building on top, as long as the document ETR for composite evaluation is not older than eighteen months<sup>2</sup> and an attack assumed to be not feasible within the scope of these evaluations has not been performed successfully.

Additional Note: The strength of the cryptographic algorithms was not rated in the course of the product certification and this maintenance procedure (see BSIG<sup>3</sup> Section 9, Para. 4, Clause 2).

For details on results of the evaluation of cryptographic aspects refer to the Certification Report [3] chapter 9.2.

This report is an addendum to the Certification Report [3].

- 2 In this case the eighteen month time frame is related to the date of the initial version [9] of the Evaluation Technical Report for Composite Evaluation as the updates made afterwards are not related to updates of AVA evaluation tasks.
- 3 Act on the Federal Office for Information Security (BSI-Gesetz - BSIG) of 14 August 2009, Bundesgesetzblatt I p. 2821

## References

- [1] Common Criteria document “Assurance Continuity: CCRA Requirements”, version 2.2, 30 September 2021  
Common Criteria document “Assurance Continuity: SOG-IS Requirements”, version 1.0, November 2019
- [2] NXP Secure Smart Card Controller P6021yVB Impact Analysis Report, Version 1.0, 2024-03-18, NXP Semiconductors (confidential document)
- [3] Certification Report BSI-DSZ-CC-1072-V5-2022 for NXP Secure Smart Card Controller P6021y VB\* including IC Dedicated Software, 2022-12-12, Bundesamt für Sicherheit in der Informationstechnik
- [4] Security Target Lite BSI-DSZ-CC-1072-V5-2022, NXP Secure Smart Card Controller P6021y VB – Security Target Lite, Version 1.11, 2019-08-23, NXP Semiconductors (sanitised public document)
- [5] Evaluation Technical Report BSI-DSZ-CC-1072-V5-2022-MA-02, Version 2, 2024-09-20, TÜV Informationstechnik GmbH (confidential document)
- [6] Evaluation Technical for Composite Evaluation (ETR COMP) for the P6021y VB, version 2, 2022-11-25, TÜV Informationstechnik GmbH (confidential document)
- [7] SITE TECHNICAL AUDIT REPORT (STAR) Firma C. Weber, Leiterplattenverarbeitung, Version 2, 2024-09-20, TÜV Informationstechnik GmbH (confidential document)
- [8] SITE TECHNICAL AUDIT REPORT (STAR) Systems on Silicon Manufacturing Co. Pte. Ltd., Singapore, Version 1, 2024-08-21, TÜV Informationstechnik GmbH (confidential document)