



Bundesamt
für Sicherheit in der
Informationstechnik

Assurance Continuity Maintenance Report

BSI-DSZ-CC-0549-2008-MA-01

**NXP Smart Card Controller P5CC024V0A,
P5CC020V0A, P5SC020V0A, P5CC012V0A all
with IC dedicated software:
Secured Crypto Library Release 2.1**



Common Criteria Recognition
Arrangement
for components up to EAL4

from

NXP Semiconductors Germany GmbH

The IT product identified in this report was assessed according to the *Assurance Continuity: CCRA Requirements*, version 1.0, February 2004 and the developers 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-0549-2008.

The changes to the certified product are at the level of sourcecode adding a secondary version of the RSA Key Generation, documentation and adapted functional tests, a change that has no effect on assurance. The identification of the maintained product is indicated by a new version number compared to the certified product.

Consideration of 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.

Therefore, the assurance as outlined in the Certification Report BSI-DSZ-CC-0549-2008 is maintained for this version of the product. Details can be found on the following pages.

This report is an addendum to the Certification Report BSI-DSZ-CC-0549-2008.

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Assessment

The IT product identified in this report was assessed according to the *Assurance Continuity: CCRA Requirements* [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], the Security Target [4] and the Evaluation Technical Report as outlined in [3].

The vendor for the NXP Smart Card Controller P5CC024V0A, P5CC020V0A, P5SC020V0A, P5CC012V0A all with IC dedicated software: Secured Crypto Library Release 2.1, NXP Semiconductors Germany GmbH, submitted an IAR [2] to the BSI for approval. The IAR is intended to satisfy the requirements outlined in the document *Assurance Continuity: CCRA Requirements* [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 NXP Smart Card Controller P5CC024V0A, P5CC020V0A, P5SC020V0A, P5CC012V0A all with IC dedicated software: Secured Crypto Library Release 2.0 was changed due to the following performance reason:

An insecure RSA key generation mode is added and shall be executed in a secure environment only, as it can be given during Smart Card personalization. Code changes had been performed to the RSA Key Generation subsystem of the Crypto Library. The functional tests have been adapted. The evaluation facility gave a commissioned statement. The Security Target [4], the Security Target Lite [5], the User Guidance Manuals [6] and [7], the Configuration List [11] and additional evaluation documentation of the vendor [8], [9] and [10] had been adapted. The producer has performed additional tests [2].

The change is not significant from the standpoint of security, however Configuration Management procedures required a change in the version number from Secured Crypto Library Release 2.0 to Release 2.1.

Conclusion

The change to the TOE is at the level of sourcecode, adding an insecure version of the RSA Key Generation for usage in a secure environment only, documentation and adapted functional tests, changes that has no effect on assurance. Examination of the evidence indicates that the code changes performed are limited to the RSA Key Generation subsystem of the Crypto Library.

The Security Target [4], the Security Target Lite [5], the User Guidance Manuals [6] and [7], the Configuration List [11] and additional evaluation documentation of the vendor NXP Semiconductors Germany GmbH [8], [9] and [10] were editorially updated.

Consideration of the change leads to the conclusion that the overall impact of the identified changes on the assurance of the TOE is classified as a minor change and that certificate maintenance is the correct path to continuity of assurance.

Therefore, BSI agrees that the assurance as outlined in the Certification Report [3] is maintained for this version of the product. This report is an addendum to the Certification Report [3].

References

- [1] Common Criteria document CCIMB-2004-02-009 "Assurance Continuity: CCRA Requirements", version 1.0, February 2004
- [2] Impact Analysis Report BSI-DSZ-CC-549-2008-MA-01, Secured Crypto Library, Revision 1.0, NXP Semiconductors Germany GmbH, 29. October 2008 (confidential document)
- [3] Certification Report BSI-DSZ-CC-0549-2008 for NXP Secure Smart Card Controller P5CC024V0A, P5CC020V0A, P5SC020V0A, P5CC012V0A all with IC Dedicated Software: Secured Crypto Library Release 2.0, Bundesamt für Sicherheit in der Informationstechnik, 26 November 2008
- [4] Security Target BSI-DSZ-0549-2008, Version 1.1, 29 October 2008, Secured Crypto Library on the P5CC024V0A, NXP Semiconductors Germany GmbH (confidential document)
- [5] Security Target Lite BSI-DSZ-0549-2008, Version 1.1, 29 October 2008, Secured Crypto Library on the P5CC024V0A, NXP Semiconductors Germany GmbH (sanitised public document)
- [6] User Guidance: Secured Crypto Library on the P5Cx012/020x/037/052 Family, Revision 1.1, 29 October 2008, NXP Semiconductors Germany GmbH
- [7] User Guidance: Secured Crypto Library on the SmartMX – Secured RSA Key Generation Library, Revision 4.1, 10 March 2008, NXP Semiconductors Germany GmbH
- [8] Evaluation Documentation: Crypto Library on SmartMX – Implementation of RSA Key Generation Subsystem, Revision 1.5, 09 June 2008, NXP Semiconductors Germany GmbH
- [9] Evaluation Documentation: Secured Crypto Library on the SmartMX – ATE_COV.2, ATE_DPT.2 & ATE_FUN.1 – 2nd Wave, Revision 0.3, 29 October 2008
- [10] Evaluation Documentation: Secured Crypto Library on the SmartMX – Test Documentation for RSA Key Generation Subsystem – 2nd Wave, Revision 0.2, 30 September 2008
- [11] Evaluation Documentation: Secured Crypto Library on the SmartMX – Configuration list – 2nd Wave, Revision 1.1, 29 October 2008, NXP Semiconductors Germany GmbH (confidential document)