Bundesamt
für Sicherheit in der
Informationstechnik

Assurance Continuity Maintenance Report

BSI-DSZ-CC-0624-2010-MA-01

Samsung S3CC9LC 16-bit RISC Microcontroller for Smart Card, Revision 11 with optional secure RSA 3.7s and ECC 2.4s Libraries including specific IC Dedicated Software

from

Samsung Electronics

Common Criteria Recognition Arrangement
for components up to EAL4

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-0624-2010.

The change to the certified product is at the level of an improvement of the communication interface and clock bias. These changes have 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-0624-2010 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-0624-2010.

Bonn, 16 March 2010

Common Criteria

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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 [6].

The vendor for the Samsung S3CC9LC 16-bit RISC Microcontroller for Smart Card, Revision 11 with optional secure RSA 3.7s and ECC 2.4s Libraries including specific IC Dedicated Software, Samsung Electronics Co., Ltd., 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 Samsung S3CC9LC 16-bit RISC Microcontroller for Smart Card, Revision 11 with optional secure RSA 3.7s and ECC 2.4s Libraries including specific IC Dedicated Software was changed due to an improvement of the communication interface and clock bias. The changes are not significant from the standpoint of security, however Configuration Management procedures required a change in the version number from Revision 9 to Revision 11. The device type for S3CC9LC, Revision 11 is identified by 150CH and IC version 011H [7]. This information is stored in the EEPROM and can be read out by the user of the Smartcard via the normal EEPROM read command.

Conclusion

The change to the certified product is at the level of an improvement of the communication interface and clock bias. These changes have no effect on assurance. Examination of the evidence indicates that the changes performed are limited to isolated areas, which are not relevant for the security. The Security Target [4] and the Security Target Lite [5] were editorially updated. Consideration of the nature of the changes 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, 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].

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

References

[1] Common Criteria document CCIMB-2004-02-009 “Assuarance Continuity: CCRA Requirements”, version 1.0, February 2004

[2] Impact Analysis Report, S3CC9LC Comparison, Version 1.0, Issued on 19 February 2010, Samsung Electronics (confidential document)

[3] Certification Report BSI-DSZ-CC-0624-2010 2010forSamsung S3CC9LC 16-bit RISC Microcontroller for Smart Card, Revision 9 with optional secure RSA 3.7S and ECC 2.4S Libraries including specific IC Dedicated Software from Samsung Electronics Co., Ltd., 29 January 2010, Bundesamt für Sicherheit in der Informationstechnik.

[4] Security Target of S3CC9LC 16-bit RISC Microcontroller for Smart Cards, Version 2.2 from 2010-02-19 Project Chippewa, Samsung Electronics (confidential document)

[5] Project Chippewa Security Target Lite of S3CC9LC 16-bit RISC Microcontroller for Smart Cards,Version 1.5, 19 February 2010, Samsung Electronics

[6] Evaluation Technical Report Summary (ETR SUMMARY), 8105621102 / BSI-DSZ-CC-0624, S3CC9LC, Version 2, 2010-01-28, TÜViT (confidential document)

[7] Configuration Management Documentation (Class ACM_AUT/CAP/SCP) – Project Cheyenne II ECC, version 2.0, 2010-02-19, Samsung (confidential document)