



Assurance Continuity Maintenance Report

BSI-DSZ-CC-1041-2018-MA-01

PikeOS 4.2.3

from

SYSGO AG



SOGIS
Recognition Agreement

The IT product identified in this report was assessed according to the *Assurance Continuity: CCRA Requirements*, version 2.1, June 2012 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-1041-2018.

The change to the certified product is at the level of a so-called service release. 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.

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-1041-2018 dated 10 December 2018 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-1041-2018.



Common Criteria
Recognition Arrangement



recognition for components
up to EAL 2 and ALC_FLR
only

Bonn, 18 March 2019

The Federal Office for Information Security



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], its Security Target and the Evaluation Technical Report as outlined in [3].

The vendor for the PikeOS 4.2.3, SYSGO AG, 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 PikeOS 4.2.3 was changed due to a so-called service release Configuration Management procedures required a change in the product identifier. Therefore the version number changed from 4.2.2 to 4.2.3. This covers the following changes:

- Bug fixing of the functional specification for removing non-security relevant inconsistencies between code and documentation.
- The Security Target was editorially updated [6].
- An update of the user guidance for enhancing the documentation quality, see [6] chapter 2.4.5 TOE Physical Boundary.

Conclusion

The maintained change is at the level of of a so-called service release. The change has no effect on product assurance.

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.

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-1041-2018 dated 10 December 2018 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.

For the identification of the TOE the following information was provided as part of the IAR [2]:

#	Type	Identifier	Release	Form of Delivery ¹
PikeOS 4.2.2 x86 64-bit				
1	SW	PikeOS 4.2.3 build S5577 for x86 64-bit architecture	R4p2_PIKEOS_MT_CMB_X86_S5577.iso hash: 2b86a9e74dc89f3336fcbd4569d88f0325bf3b8b19ef95ae097ac94128244006	DL
2	SW	PikeOS 4.2.3 certification documentation for x86 64-bit	R4p2_PIKEOS_DK_CMB_X86_AMD64_CERTKIT_S5577.iso hash: e783c1697b8164294b2d3d9e52f46875843814bb07519564702a3424bb986f76	DL
PikeOS 4.2.2 ARM v7				
3	SW	PikeOS 4.2.3 build S5577 for ARM v7 architecture	R4p2_PIKEOS_MT_CMB_ARM_V7HF_S5577.iso hash: b968dabc8a9111167469b53392a5f8f58b03a4b6b563d19212f5c5f650640d43	DL
4	SW	PikeOS 4.2.3 certification documentation for ARM v7	R4p2_PIKEOS_DK_CMB_ARM_V7HF_CERTKIT_S5577.iso hash: 5e82eced4528c0a73c49d2c0c04eb947a3627d084ec52f8e034e7aa53c3f5e8	DL
PikeOS 4.2.2 ARM v8				
5	SW	PikeOS 4.2.3 build S5577 for ARM v8 architecture	R4p2_PIKEOS_MT_CMB_ARM_V8HF_S5577.iso hash: 5f19a409108fd8eede18f283a1882a7c5fc98f3b4461389cbc243597454e933f	DL
6	SW	PikeOS 4.2.3 certification documentation for ARM v8	R4p2_PIKEOS_DK_CMB_ARM_V8HF_CERTKIT_S5577.iso hash: bf57c31cf6e5f6d80f01279b8f5811b2240c8bd73e6168ffdfc965b53ef5f29a	DL
TOE guidance documents is delivered by means of the ISO images listed above, see [6] chapter 2.4.5 TOE Physical Boundary for details .				

This report is an addendum to the Certification Report [3]. Please refer to chapter 2.1 and chapter 2.2 of [3] for an overview of the delivery procedure and the identification of the TOE by the customer.

¹“DL” signifies delivery by direct download from a server means that the TOE component is contained in an ISO image (available for direct download) that needs to be extracted or be brought on a suitable media to access the respective component.

References

- [1] Common Criteria document “Assurance Continuity: CCRA Requirements”, version 2.1, June 2012
- [2] Common Criteria Impact Analysis Report PikeOS Separation Kernel 4.2.3, V00.2, 05.03.2019, SYSGO AG (confidential document)
- [3] Certification Report BSI-DSZ-CC-1041-2018 for PikeOS Separation Kernel 4.2.2, Bundesamt für Sicherheit in der Informationstechnik, 10.12.2018
- [4] Security Target, BSI-DSZ-CC-1041-2018, Version 20.6, 10.10.2018, PikeOS Separation Kernel v4.2.2, SYSGO AG
- [5] Changes to the Configuration List as part of [2], chapter 7 (confidential document)
- [6] Security Target, BSI-DSZ-CC-1041-2018-MA01, Version 20.7, 21.01.2019, PikeOS Separation Kernel v4.2.3, SYSGO AG