CCEVS APPROVED ASSURANCE CONTINUITY MAINTENANCE REPORT

ASSURANCE CONTINUITY MAINTENANCE REPORT FOR

_____

BAE Systems Secure KVM Gen2 8560943-2 (PP_PSD_V4.0)

Maintenance Report Number: CCEVS-VR-VID11304-2024

Date of Activity: October 29th, 2024

References:

> Common Criteria Evaluation and Validation Scheme Publication #6 "Assurance Continuity: Guidance for Maintenance and Re-evaluation" Version 3.0, September 12, 2016
>
> NIAP Policy #12 "Acceptance Requirements of a product for NIAP Evaluation." 29 August 2014.
>
> Common Criteria document 2012-06-01 "Assurance Continuity: CCRA Requirements" Version 2.1, June 2012
>
> BAE Systems Secure KVM Gen2, 8560943-2 Security Target, Version 1.1, August 28, 2024 (public and proprietary)
>
> BAE Systems Secure KVM Gen2, 8560943-2 Impact Analysis Report, Version 1.0, August 28, 2024
>
> collaborative Protection Profile for Peripheral Sharing Device, Version 4.0, 19 July 2019 [PSD]
>
> PP-Module for Keyboard/Mouse Devices, Version 1.0, 19 July 2019 [MOD-KM]
>
> PP-Module for Video/Display Devices, Version 1.0, 19 July 2019 [MOD-VI]

Affected Evidence:

> BAE Systems Secure KVM Gen2, 8560943-2 Proprietary Security Target, Version 1.1, August 28, 2024
>
> BAE Systems Secure KVM Gen2, 8560943-2 Public Security Target, Version 1.1, August 28, 2024

Updated Developer Evidence:

The developer has provided sufficient supporting rationale describing the impact of each change. There are updates to the firmware running on the BAE Systems Secure KVM Gen2, 8560943-2 from version 2.1 to version 2.2. There are no hardware or software updates and no new features. The only changes are bug fixes and enhancements. The User Guide and Isolation document remain unaffected.

The changes described in this document constitute all changes made to the BAE Systems Secure KVM Gen2, 8560943-2 since the evaluation completed in January 2023.

Description of ASE Changes:

Leidos submitted an Impact Analysis Report (IAR #1) to CCEVS, on behalf of BAE Systems for approval to update the firmware running on the BAE Systems Secure KVM Gen2, 8560943-2 from version 2.1 to version 2.2. This update included hardware or software changes and added no new features. The only changes were bug fixes and enhancements.

Changes to TOE:

The only changes to the TOE were updating the firmware running on the BAE Systems Secure KVM Gen2, 8560943-2 from version 2.1 to version 2.2. There are no hardware or software updates and no new features. The only changes are bug fixes and enhancements, summarized below:

BUG FIXES AND ENHANCEMENTS ADDRESSED IN FIRMWARE V2.2

- Fixed occasional startup hang problem and test pattern not always appearing on both monitors on boot up. The updates improved system startup and troubleshooting capability.

- Upgraded HID report descriptor for the keyboard to support boot protocol, allowing the keyboard to be successfully enumerated by the BIOS.

- Fixed watchdog timer implementation on TX & RX modules, so the modules will recover from an OS crash.

- Adjusted behavior of the fiber link to disconnect during reset or initialization of the OS.

- Adjusted the Query/Response parameters to support a more robust OS watchdog timer failure recovery mechanism.

Description of ALC Changes:

Changes to the following documents were made:

From version 2.1 to 2.2 of the firmware running on the BAE Systems Secure KVM Gen2, 8560943-2 in the Security Target.

Assurance Continuity Maintenance Report:

- BAE Systems submitted an Impact Analysis Report (V1.0) to update the firmware running on the BAE Systems Secure KVM Gen2, 8560943-2 from version 2.1 to version 2.2.
- Updates consist of bug fixes and enhancements to the operation of the system
- There are no security relevant fixes so no new certification is required.
- BAE Systems has not made any changes to the development environment of the updated TOE.
- There were no changes that required the evaluators to do any additional testing.

Description of Regression Testing:

The updates to the firm resulted in no changes to SFRs, Security Functions, Assumptions or Objectives, Assurance Documents, or TOE Environment and therefore is a minor change. The proprietary and public security targets are updated to reflect the firmware minor version update.

Vendor regression test results were produced and found consistent with the previous test results. BAE Systems performs extensive regression testing for every firmware update including 2.2. None of the changes affected the security behavior of the KVM.

Vulnerability Assessment:

The analyst performed vulnerability searches on 8/26/2024, 9/12/2024 and then again on 10/29/2024. The analysis considered only search results dated after 10 January 2023, which is when searches were last performed for the current validated release of the TOE.

The CVE check did not find any residual vulnerabilities in the TOE.

The analyst for BAE Systems Secure KVM Gen2, 8560943-2 searched the following public vulnerability repositories for vulnerabilities potentially affecting the TOE:

- NIST National Vulnerabilities Database (NVD) (http://web.nvd.nist.gov)

Leidos elected the 13 search key words based upon the vendor's name, the product name, and key platform features the product leverages. The search terms used were:

- bae
- kvm
- kvm switch
- peripheral switch
- Aurora protocol
- xilinx
- Micron
- Lattice Semiconductor

- Kingston
- Atmel
- NXP
- Microchip
- STM

The IAR contains the output from the vulnerability searches and the rationale why the search results are not applicable to the TOE. This search was performed on October 29, 2024. No vulnerabilities applicable to the TOE were found.

Vendor Conclusion:

The 'Description of Changes' section (Section 2) of the IAR states that there are no hardware or software updates and no new features.

Based on this and other information from within this IAR document, the assurance impact of these changes is minor.

Validation Team Conclusion:

The validation team reviewed the changes and concurred the changes are minor, and that certificate maintenance is the correct path for assurance continuity as defined in Scheme Process #6. The updated Security Target changed to add the new firmware versions identified above and to update ST. The changes made to the BAE Systems Secure KVM Gen2, 8560943-2 are to the firmware only and only consist of bug fixes and enhancements to the operation of the system. The security functionality of the BAE Systems Secure KVM Gen2, 8560943-2 firmware updates remain the same as the prior evaluated version BAE Systems Secure KVM Gen2, 8560943-2 with firmware 2.1. Hardware and software are unchanged from the previous version.