



CCEVS APPROVED ASSURANCE CONTINUITY MAINTENANCE REPORT

ASSURANCE CONTINUITY MAINTENANCE REPORT FOR

Pure Storage FA-400 Series and FlashArray //m Appliances

Maintenance Report Number: CCEVS-VR-10664-2017b

Date of Activity: 15 February 2018

References:

Common Criteria Evaluation and Validation Scheme Publication #6 “Assurance Continuity: Guidance for Maintenance and Re-evaluation” Version 3.0, September 12, 2016

Pure Storage FA-400 Series and FlashArray //m Appliances Version 4.7: Adding FlashArray //mr2, Impact Analysis Report For Common Criteria Assurance Maintenance, Version 1.0, January, 22 2018

Pure Storage FlashArray Security Target, version 1.2, October 31, 2017

Assurance Continuity Maintenance Report for Pure Storage FA-405, FA-450, FlashArray//m20, FlashArray//m50, and FlashArray//m70 Series Appliances, Version 1.0, February 16, 2018

Affected Evidence:

Pure Storage FlashArray Security Target, version 1.2, October 31, 2017.

Pure Storage FA-400 Series and FlashArray//M Appliances Running Purity 4.7, 4.8, and 4.10 Guidance Documentation, Version 2.0, October 2017

Updated Developer Evidence:

Pure Storage FlashArray Security Target, version 1.3, January 22, 2018.

Pure Storage FA-400 Series and FlashArray//M Appliances Running Purity 4.7, 4.8, and 4.10 Guidance Documentation, Version 3.1, November 2017

Assurance Continuity Maintenance Report:

Blue Oak Solutions, LLC, on behalf of Pure Storage, Inc., submitted an Impact Analysis Report to CCEVS for approval. The IAR is intended to satisfy requirements outlined in Common Criteria Evaluation and Validation Scheme Publication #6 “Assurance Continuity: Guidance for Maintenance and Re-evaluation” Version 3.0, September 12, 2016. In accordance with those requirements, the IAR describes the changes made to the certified TOE, the evidence that was updated as a result of those changes, and the security impact of those changes.

This assurance maintenance activity builds on the assurance maintenance activity for a previously submitted IAR (Pure Storage, Inc. & Pure Storage FA-400 Series and FlashArray //m Appliances version 4.7 Impact Analysis Report For Common Criteria Assurance Maintenance, Version 1.0, October 31, 2017), which covered updating the Purity software from version 4.7 to version 4.10.

Changes to TOE:

The TOE has been updated in the following areas:

The updates were the result of the addition of four new hardware models to the FlashArray//M family of products. The primary difference is in the increased performance of the R2 products, which should be considered of minor impact. The new hardware models operate with the same software as the previously evaluated TOE and utilize the same Intel Xeon family of processors.

All software changes were addressed in the previously submitted IAR for Purity 4.10.

The following FlashArray //MR2 Series hardware models have been added to the scope of the evaluation:

- **FlashArray//M with the M10R2 Controller Module**
 - CPU: Intel Xeon E5-2620 v4, 8 cores, 2.1 GHz, 20MB Cache
 - RAM: 96 GB DDR4-2133
 - 0 add-on storage shelves
- **FlashArray//M with the M20R2 Controller Module**
 - CPU: Intel Xeon E5-2630 v4, 10 cores, 2.2 GHz, 25MB Cache
 - RAM: 192 GB DDR4-2133
 - 0 – 4 add-on storage shelves
- **FlashArray//M with the M50R2 Controller Module**
 - CPU: Intel Xeon E5-2650 v4, 12 cores, 2.2 GHz, 30MB Cache
 - RAM: 384 GB DDR4-2133
 - 0 – 4 add-on storage shelves
- **FlashArray//M with the M70R2 Controller Module**
 - CPU: Intel Xeon E5-2698 v4, 20 cores, 2.2 GHz, 50MB Cache
 - RAM: 1024 GB DDR4-2400
 - 0 – 6 add-on storage shelves

Regression Testing:

Regression testing was performed on the added //MR2 appliances. The FlashArray//M with the M10R2, M20R2, M50R2, and M70R2 have the same software installed as the original TOE and operate on the same Intel Xeon family of processors. Regression testing of the TOEs confirmed that the TOEs exhibited no changes in the way they operated, and that the TOEs performed as expected. The new hardware only improves upon the performance of the original TOE and does not introduce any new security services or interfaces.

Vendor Conclusion:

The introduction of the four new hardware models is asserted to be a minor change that does not impact the evaluated configuration of the TOE. The new hardware models maintain conformance to the protection profile. No changes made to the product across revisions impacts the functionality claimed within the original Security Target.

Based upon the findings and the reasoning provided above, the evaluation team determines that the changes from the validated TOE (Pure Storage FA-405, FA-450, FlashArray//m20, FlashArray//m50, and FlashArray//m70 Series Appliances version 4.10) to the Changed TOE (Pure Storage FA-405, FA-450, FlashArray//m20, FlashArray//m50, FlashArray//m70, and FlashArray //MR2 Series Appliances version 4.10) are of "minor impact".

Validation Team Conclusion:

The validation team reviewed the changes and concur the changes are minor and that certificate maintenance is the correct path for assurance continuity as defined in Scheme Process #6. Regression testing proved there are no deviations in operation, and deemed the additional hardware models equivalent to those originally validated TOE models. A vulnerability analysis was performed and all publicly-disclosed CVEs applicable to versions of the TOE were addressed in a previously submitted IAR for Purity 4.10. The CAVP certificates listed in the ST were reviewed and confirmed to still be valid. Therefore, CCEVS agrees that the original assurance is maintained for the above cited version of the product.