RELEASE NOTES

Solidigm™ Storage Tool - GUI

July 2023

SOLIDIGM™

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Revision History

Revision	Software Revision	Description	Date
001	1.0	This is the first revision of the Solidigm™ Storage Tool (SST). This version of the tool contains below fixes; and the functionality of many current tools, see the User Guide for more information, with support for Intel® / Solidigm™ client and data center SSD.	March 2022
002	1.1	This version of the tool contains following changes: • This revision adds a firmware update for 670p, 665p, 660p, 760p, Pro 7600p, Pro 6000p, E6100p P3100 and P4101. • CVE document update (see Solidigm Advisory SOLIDIGM-SA-00563)	May 2022
003	1.1	Documentation Correction	May 2022
004	1.2	Firmware update for D7-P5510, D5-P5316, D3-S4520 / S4620	July 2022
005	1.3	This version of the tool contains following changes: • Firmware update for D3-S4510 / S4610 • Added HMC feature support for P41 Plus • Various bug fixes and small enhancements	September 2022
006	1.4	This version of the tool contains following changes: • Added ability for workload tracker • Ended ESXi 6.x support due to the end of support from VMWare • Various bug fixes and small enhancements	December 2022
007	1.5	This version of the tool contains following changes: • Firmware update for D3-S4510 / S4610 • Various bug fixes and small enhancements	January 2023

008	1.6	This version of the tool contains following changes: • Firmware update for P41 Plus • Added CSV File Type export on GUI for Data extraction	February 2023
009	1.7	This version of the tool contains following changes: • Firmware update for D3-S4520 / S4620 and D7-P5520 / P5620 • Added ability to bypass full system device scan when user provides device path • Fixed some SST command issues on Microsoft NVMe Inbox Driver • Various bug fixes and small enhancements	March 2023
010	1.8	This version of the tool contains following changes: • Fixed the issue of certain drives not showing drive temperature	May 2023
011	1.9	This version of the tool contains following changes: • Firmware update for D3-S4510 / S4610, D5-P5316 and D5-P5430 • Various bug fixes and small enhancements	July 2023

Note: If you purchased your Intel® / Solidigm™ SSD from an OEM, your firmware version may have a different naming sequence. Contact your local OEM representative for the latest firmware revisions.

Solidigm Data Center SSD Products Revision History

1 Solidigm™ D7-P5520 / P5620 (formerly Intel®)

Date	Revision	Description

March 2023	9CV10410	• Mitigates the following issues besides some other minor/corner case fixes:
		  • Non-Graceful Shutdown Counter Not Incrementing During Unsafe Shutdowns within DEh Log Page
		  • UEFI Driver Health Status GetHealthStatus Returning Unsupported
		  • PCIe Unsupported Request Errors Observed by Host during Drive Power Cycle
		  • Drive De-Enumeration During PCIe Link Up Sequence
		  • Intermittent Failure During Drive Boot Sequence Causes No Drive Attached
		  • Incorrect NVMe MI Response Message Status During Drive's Time to Ready

2 Solidigm™ D7-P5510 (formerly Intel®)

Date	Revision	Description
July 2022	JCV10300	• NAND Read Disturb Impact Due to Unique NAND Background Activity Fix • BM459 Assert No Available Band/Erase Block Fix • Other various fixes and improvements

3 Solidigm™ D5-P5430

Date	Revision	Description

July 2023	6CV10110	• Mitigates the following issues besides some other minor/corner case fixes:
		  • Environment that does not Implement Required Command Ordering Enforcement may cause drive to return last data written to NAND
		  • Host OS fails to boot with the Vendor Defined Firmware option

4 Solidigm™ D5-P5316 (formerly Intel®)

Date	Revision	Description
July 2023	ACV10340	• Mitigates the following issues besides some other minor/corner case fixes: • Environment that does not Implement Required Command Ordering Enforcement may cause drive to return last data written to NAND

		• PCIe unsupported request errors observed by host during drive power cycle
July 2022	ACV10310	• Add additional support for OPAL 2.0, NVMe 1.4c, NVMe-MI 1.1c, and OCP 0xC0 Log Page

5 Solidigm™ D3-S4520 / S4620 (formerly Intel®)

Date	Revision	Description

March 2023	7CV10120	• Mitigates the following issues besides some other minor/corner case fixes:
		  • SMART attribute AFh and EBh was going to 1 after ~2years of storage without power, when the PLI capacitor was in fact healthy
		  • A non-warranty SMART attribute C5h (pending sector count) was increasing in a corner case scenario

July 2022	7CV10111	• Mitigates the following issues besides some other minor/corner case fixes:
		  • Command timeouts CI054, sometimes followed by ASSERT_SR002 and The SATA link going down.
		  • AFh Smart attribute accidentally drops from 100 to 1 upon power on or power cycle. False failure of the cap test. However, nothing is/was wrong with the capacitor.
		  • SMART attribute B7h SATA downshift counter not updating accurately when a SATA downshift occurs.
		  • SSD warm reboot issue in RAID mode: BIOS hangs and drive not enumerating after OS install and warm reset in RAID mode

6 Solidigm™ D3-S4510 / S4610 (formerly Intel®)

Date	Revision	Description
July 2023	XCV10165 (2.5")	• Follow up fix for SMART attributes (AFh, EBh) incorrectly triggered after long-term storage (Only 2.5" SKUs are impacted) • SMART return status fix
January 2023	XCV10160 (2.5")	Mitigates the following issues: • SMART attributes (AFh, EBh) incorrectly triggered after long-term storage (Only 2.5" SKUs are impacted)
September 2022	XC311151 (M.2) XCV10151 (2.5")	• Mitigates the following issues: • Occasional IO timeout under heavy workloads potentially leading to drive drops

7 Solidigm™ DC P3100 (formerly Intel®)

Date	Revision	Description

May 2022	119D	• Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

8 Solidigm™ DC P4101 (formerly Intel®)

Date	Revision	Description
May 2022	009D	• Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

Solidigm Client SSD Products Revision History

1. Solidigm™ P41 Plus

Date	Revision	Description
February 2023	002C	• Fixes possible early disablement of DSLC • Fixes SMART Health info corruption and NDA that occasionally occur due to unexpected power loss • Improves drive power on to ready time during certain rebuild conditions after unexpected power loss • Corrects Verify Command missing in NVMe Commands Supported and Effects Log as reported by drive • Fixes occasional drive hang experienced during OS imaging process in WinPE environment

2. Solidigm™ 660p (formerly Intel®)

Date	Revision	Description
May 2022	005C	• Potential BSOD during Power State Transition • Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

3. Solidigm™ 665p (formerly Intel®)

Date	Revision	Description

May 2022	002C	• Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

4. Solidigm™ 670p (formerly Intel®)

Date	Revision	Description
May 2022	003C	• Fix to thermal throttling Flow • Fix for Null pointers • Block SID Fix • Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

5. Solidigm™ 760p (formerly Intel®)

Date	Revision	Description
May 2022	006C	• Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

6. Solidigm™ Pro 7600p (formerly Intel®)

Date	Revision	Description
May 2022	006P	• Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

7. Solidigm™ Pro 6000p (formerly Intel®)

Date	Revision	Description
May 2022	132P	• Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

Solidigm Other SSD Products Revision History

1. Solidigm™ E 6100p (formerly Intel®)

Date	Revision	Description
May 2022	006E	• Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

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List of Solidigm SSD Products

Please check all supported Solidigm™ SSDs (formerly Intel®) in the following link:

https://www.solidigm.com/us/en/support-page/product-doc-cert/ka-00099.html

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