

Solidigm[™] GUI Storage Tool

Release Notes

June 2024 Revision 015

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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 cur- rent tools, see the User Guide for more information, with support for Intel [®] / Solidigm [™] client and data center SSD.	March 2022
002	1.1	 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	 Firmware update for D3-S4510 / S4610 Added HMC feature support for P41 Plus Various bug fixes and small enhancements 	Sept. 2022
006	1.4	 Added ability for workload tracker Ended ESXi 6.x support due to the end of support from VMWare Various bug fixes and small enhancements 	Dec. 2022
007	1.5	 Firmware update for D3-S4510 / S4610 Various bug fixes and small enhancements 	Janu- ary 2023
008	1.6	Firmware update for P41 PlusAdded CSV File Type export on GUI for Data extraction	Febru- ary 2023
009	1.7	 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	• Fixed the issue of certain drives not showing drive temperature	May 2023
011	1.9	 Firmware update for D3-S4510 / S4610, D5-P5316 and D5-P5430 Various bug fixes and small enhancements 	July 2023
012	1.10	Firmware update for D7-P5510Various bug fixes and small enhancements	Sept. 2023
013	1.11	 Firmware update for selected D7-P5510 drives Firmware update for P5520/P5620 Firmware update for S4520/S4620 Updated LSI MegaRAID library for newer cards support 	Dec. 2023



Revision	Software Revision	Description	Date
014	1.12	 Firmware update for selected D7-P5810 Fix for firmware update not available for few D7-P4511 models Fixed issue of devices enumerating as SCSI in RHEL 7 Added support for new models for various products Various small bug fixes and enhancements 	March 2024
015	1.13	 Firmware Update for DC P5336 Series to 5CV10302 Firmware Update for DC P5500 / P5600 Series to 2CV10300 Added additional model support for S4510 series Added support for Hardware Component Log page Added support for Telemetry Data Area 4 Product family updated for various models Fixed issue that caused Read Scan failure in Windows 	June 2024

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.

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1 Solidigm Data Center SSD Products Revision History

Table 1: Solidigm™ D7-P5336

Date	Revision	Description
June 2024	5CV10302	 Mitigates the following issues besides come other minor/corner case fixes: Firmware Downgrade Counter not incrementing on first downgrade after reset High queue-depth sequential temporary performance degradation after long idle periods Failure to commit same firmware as active when using firmware download and activate command with activate action = 3 FIPS/OPAL drives only: incorrect parameters returned when traversing TCG ACE table UIDs via TableNext method

Table 2: Solidigm™ DC-P5500 / P5600

Date	Revision	Description
June 2024	2CV10300	 Mitigates the following issues besides come other minor/corner case fixes: Environment that does not Implement Required Command Ordering Enforcement May Cause Drive to Return Last Data Written to NAND Incorrect NMVe MI Response Message Status During Drive's Time To Ready Following Ungraceful Shutdown, admin / IO commands may Timeout After Config Ready Bit is Set

Table 3: Solidigm™ D7-P5810

Date	Revision	Description
March 2024	1CV10200	 1.6TB SKU only Mitigates the following issues besides some other minor/corner case fixes: Support for 1.6TB SKU

Table 4: Solidigm[™] D7-P5520 / P5620 (formerly Intel[®])

Date	Revision	Description
Dec. 2023	9CV10450	 Mitigates the following issues besides some other minor/corner case fixes: NVMe-MI Basic Throttle State Value May Persist After Exiting Throttling State Power Management Set Feature Command sent Over NVMe MI Causes Drive to go into Disable Logical Mode Vendor Unique Feature Identifier C6h Not Reflecting Power Mode Setting Changes Made with Feature Identifier 02h Drive May Fail to enumerate During Drive Boot Up Sequence PCIe Link up Sequence May Fail During AC/DC Cycle
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

Table 5: Solidigm[™] D7-P5510 (formerly Intel[®])

Date	Revision	Description
Dec. 2023	JCV10404	 OPAL drives only: Mitigates the following issues besides some other minor/corner case fixes: Allow the Opal drive to undergo an MR3 update without the drive becoming locked Adjustments to wear levelling mechanism Mitigate issue that cause drive to return last data written to NAND
Sept. 2023	JCV10400	 Non-OPAL drives only: 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 Drive may encounter bad_ctx 3014 due to wear leveling
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

Table 6: 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

Table 7: 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

Table 8: Solidigm™ D3-S4520 / S4620 (formerly Intel®)

Date	Revision	Description
Dec. 2023	7CV10130	 Mitigates the following issues besides some other minor/corner case fixes: SMART return status 2CF4H, and SMART attribute AFh and EBh = 1 after ~2 years storage without power, indicating PLI capacitor test failure (U.2 FF only) Drive did not correctly throttle when end of life defect threshold was reached Unable to format and possible de-enumeration during installing image operation containing crypto scramble command
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

Table 8: Solidigm[™] D3-S4520 / S4620 (formerly Intel[®])

Date	Revision	Description
July 2022	7CV10111	 Mitigates the following issues besides some other minor/corner case fixes: Command timeouts Cl054, 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

Table 9: 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
Jan. 2023	XCV10160 (2.5")	 Mitigates the following issues: SMART attributes (AFh, EBh) incorrectly triggered after long-term storage (Only 2.5" SKUs are impacted)
Sept. 2022	XC311151 (M.2) XCV10151 (2.5")	 Mitigates the following issues: Occasional IO timeout under heavy workloads potentially leading to drive drops

Table 10: Solidigm[™] DC P3100 (formerly Intel[®])

Date		Revision	Description
May 202	22	119D	Mitigates security vulnerability (see Solidigm Advisory SOLIDIGM-SA-00563)

Table 11: Solidigm[™] DC P4101 (formerly Intel[®])

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

2 Solidigm Client SSD Products Revision History

Table 12: Solidigm™ P41 Plus

Date	Revision	Description
Feb. 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

Table 13: 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)

Table 14: Solidigm[™] 665p (formerly Intel[®])

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

Table 15: 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)

Table 16: Solidigm™ 760p (formerly Intel®)

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

Table 17: Solidigm[™] Pro 7600p (formerly Intel[®])

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

Table 18: Solidigm[™] Pro 6000p (formerly Intel[®])

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



3 Solidigm Other SSD Products Revision History

Table 19: Solidigm™ E 6100p (formerly Intel®)

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

4 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