



RELEASE NOTES

# Solidigm™ Storage Tool - GUI

May 2023

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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: <ul style="list-style-type: none"> <li>• This revision adds a firmware update for 670p, 665p, 660p, 760p, Pro 7600p, Pro 6000p, E6100p P3100 and P4101.</li> <li>• CVE document update (see Solidigm Advisory SOLIDIGM-SA-00563)</li> </ul>	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: <ul style="list-style-type: none"> <li>• Firmware update for D3-S4510 / S4610</li> <li>• Added HMC feature support for P41 Plus</li> <li>• Various bug fixes and small enhancements</li> </ul>	September 2022
006	1.4	This version of the tool contains following changes: <ul style="list-style-type: none"> <li>• Added ability for workload tracker</li> <li>• Ended ESXi 6.x support due to the end of support from VMWare</li> <li>• Various bug fixes and small enhancements</li> </ul>	December 2022
007	1.5	This version of the tool contains following changes: <ul style="list-style-type: none"> <li>• Firmware update for D3-S4510 / S4610</li> <li>• Various bug fixes and small enhancements</li> </ul>	January 2023

008	1.6	This version of the tool contains following changes: <ul style="list-style-type: none"><li>• Firmware update for P41 Plus</li><li>• Added CSV File Type export on GUI for Data extraction</li></ul>	February 2023
009	1.7	This version of the tool contains following changes: <ul style="list-style-type: none"><li>• Firmware update for D3-S4520 / S4620 and D7-P5520 / P5620</li><li>• Added ability to bypass full system device scan when user provides device path</li><li>• Fixed some SST command issues on Microsoft NVMe Inbox Driver</li><li>• Various bug fixes and small enhancements</li></ul>	March 2023
010	1.8	This version of the tool contains following changes: <ul style="list-style-type: none"><li>• Fixed the issue of certain drives not showing drive temperature</li></ul>	May 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	<ul style="list-style-type: none"> <li>Mitigates the following issues besides some other minor/corner case fixes: <ul style="list-style-type: none"> <li>Non-Graceful Shutdown Counter Not Incrementing During Unsafe Shutdowns within DEh Log Page</li> <li>UEFI Driver Health Status GetHealthStatus Returning Unsupported</li> <li>PCIe Unsupported Request Errors Observed by Host during Drive Power Cycle</li> <li>Drive De-Enumeration During PCIe Link Up Sequence</li> <li>Intermittent Failure During Drive Boot Sequence Causes No Drive Attached</li> <li>Incorrect NVMe MI Response Message Status During Drive's Time to Ready</li> </ul> </li> </ul>

### 2 Solidigm™ D7-P5510 (formerly Intel®)

Date	Revision	Description
July 2022	JCV10300	<ul style="list-style-type: none"> <li>NAND Read Disturb Impact Due to Unique NAND Background Activity Fix</li> <li>BM459 Assert No Available Band/Erase Block Fix</li> <li>Other various fixes and improvements</li> </ul>

### 3 Solidigm™ D5-P5316 (formerly Intel®)

Date	Revision	Description
July 2022	ACV10310	<ul style="list-style-type: none"> <li>Add additional support for OPAL 2.0, NVMe 1.4c, NVMe-MI 1.1c, and OCP 0xC0 Log Page</li> </ul>

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

Date	Revision	Description
March 2023	7CV10120	<ul style="list-style-type: none"> <li>Mitigates the following issues besides some other minor/corner case fixes: <ul style="list-style-type: none"> <li>SMART attribute AFh and EBh was going to 1 after ~2years of storage without power, when the PLI capacitor was in fact healthy</li> <li>A non-warranty SMART attribute C5h (pending sector count) was increasing in a corner case scenario</li> </ul> </li> </ul>

July 2022	7CV10111	<ul style="list-style-type: none"> <li>Mitigates the following issues besides some other minor/corner case fixes:</li> </ul>
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- 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

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

Date	Revision	Description
January 2023	XCV10160 (2.5")	<ul style="list-style-type: none"> <li>• Mitigates the following issues: <ul style="list-style-type: none"> <li>• SMART attributes (AFh, EBh) incorrectly triggered after long-term storage (Only 2.5" SKUs are impacted)</li> </ul> </li> </ul>
September 2022	XC311151 (M.2) XCV10151 (2.5")	<ul style="list-style-type: none"> <li>• Mitigates the following issues: <ul style="list-style-type: none"> <li>• Occasional IO timeout under heavy workloads potentially leading to drive drops</li> </ul> </li> </ul>

## 6 Solidigm™ DC P3100 (formerly Intel®)

Date	Revision	Description
May 2022	119D	<ul style="list-style-type: none"> <li>• Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li> </ul>

## 7 Solidigm™ DC P4101 (formerly Intel®)

Date	Revision	Description
May 2022	009D	<ul style="list-style-type: none"> <li>• Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li> </ul>

# Solidigm Client SSD Products Revision History

## 1. Solidigm™ P41 Plus

Date	Revision	Description
February 2023	002C	<ul style="list-style-type: none"> <li>• Fixes possible early disablement of DSLC</li> <li>• Fixes SMART Health info corruption and NDA that occasionally occur due to unexpected power loss</li> <li>• Improves drive power on to ready time during certain rebuild conditions after unexpected power loss</li> <li>• Corrects Verify Command missing in NVMe Commands Supported and Effects Log as reported by drive</li> <li>• Fixes occasional drive hang experienced during OS imaging process in WinPE environment</li> </ul>

## 2. Solidigm™ 660p (formerly Intel®)

Date	Revision	Description
May 2022	005C	<ul style="list-style-type: none"><li>• Potential BSOD during Power State Transition</li><li>• Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li></ul>

## 3. Solidigm™ 665p (formerly Intel®)

Date	Revision	Description
May 2022	002C	<ul style="list-style-type: none"><li>• Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li></ul>

## 4. Solidigm™ 670p (formerly Intel®)

Date	Revision	Description
May 2022	003C	<ul style="list-style-type: none"><li>• Fix to thermal throttling Flow</li><li>• Fix for Null pointers</li><li>• Block SID Fix</li><li>• Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li></ul>

## 5. Solidigm™ 760p (formerly Intel®)

Date	Revision	Description
May 2022	006C	<ul style="list-style-type: none"><li>• Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li></ul>

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

Date	Revision	Description
May 2022	006P	<ul style="list-style-type: none"><li>Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li></ul>

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

Date	Revision	Description
May 2022	132P	<ul style="list-style-type: none"><li>Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li></ul>

## Solidigm Other SSD Products Revision History

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

Date	Revision	Description
May 2022	006E	<ul style="list-style-type: none"><li>Mitigates security vulnerability (see Solidigm Advisory <a href="#">SOLIDIGM-SA-00563</a>)</li></ul>



## 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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