

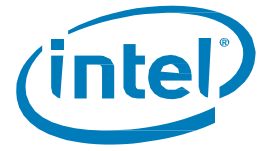
# Intel® Solid State Drive Datacenter PCIe\* Microsoft\* Windows\* Driver

## Release Notes

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*October 2020*

*Software Version 5.1.0.1003*



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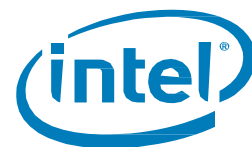
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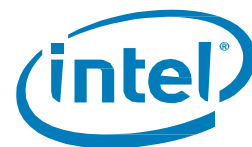


# Driver Revision History

Date	Document Version	Driver Version	Description
October	022	5.1.0.1003	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Fixed issue where multiple requests for Log Sense information would cause a sporadic BSOD</li> <li>Change in the way SSD model strings are displayed in Windows Device Manager.</li> </ul>
April	020	5.0.0.1002	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Support for Intel SSD D7-P5500/P5600 Series</li> <li>Resolved Event ID 56 logged when 2 or more identical NVMe drives in a system</li> <li>Removed support for Windows Server 2008 R2</li> </ul>
September	019	4.4.0.1003	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Resolved possible BSOD when issuing a temperature request</li> <li>Windows* PowerShell* interface returns correct information for Serial Number</li> </ul>
July	018	4.3.0.1006	Updated Certification.
April	016	4.3.0.1006	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Resolved possible BSOD when issuing a Query Property temperature request</li> <li>Improved hot plug handling</li> <li>Improved sequential read/write performance with large block sizes</li> </ul> <p>Known issues:</p> <ul style="list-style-type: none"> <li>Possible BSOD during System Sleep and Hibernate – currently suspected to be caused by a device/PCI error. No workaround at this time.</li> <li>Possible BSOD during System Sleep and Hibernate with multiple namespaces present</li> </ul>



Date	Document Version	Driver Version	Description
November	015	4.2.0.1002	<p>New for this release:</p> <ul style="list-style-type: none"> <li>• Resolved issues with hangs seen with third-party tools that monitor system status via S.M.A.R.T. interface</li> <li>• Improved SCSI to NVMe command translation</li> <li>• Added support for Windows Server 2019</li> </ul> <p>Known issues:</p> <ul style="list-style-type: none"> <li>• Possible BSOD when issuing a Query Property temperature request.</li> </ul>
July	014	4.0.0.1007	<p>New for this release:</p> <ul style="list-style-type: none"> <li>• DLL injection vulnerability (INTEL-SA-00154) was fixed with this release</li> <li>• For more information on INTEL-SA-00154, please visit the following link - <a href="https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00154.html">https://www.intel.com/content/www/us/en/security-center/advisory/intel-sa-00154.html</a></li> </ul>
February	013	4.0.0.1007	<p>New for this release:</p> <ul style="list-style-type: none"> <li>• Support for public Windows IOCTLs introduced in Windows 10</li> <li>• Support for features and functionality defined in the NVMe 1.3 specification</li> </ul>
December	012	3.2.0.1002	<p>New for this release:</p> <ul style="list-style-type: none"> <li>• Support for Intel Optane DC P4800X Series</li> </ul>
October	011	3.1.0.1021	<p>New for this release:</p> <ul style="list-style-type: none"> <li>• Fixed BSOD/enumeration issue during hot plug</li> <li>• Fixed BSOD during Windows 7 OS installation</li> </ul>



Date	Document Version	Driver Version	Description
August	010	3.1.0.1009	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Support for additional P4600 Intel Datacenter SSD Series skus, not currently supported in prior driver release</li> <li>Updates to SCSI translation for commands including Mode Select, Read Capacity, Security IN, and EUI64</li> </ul>
May	009	3.0.0.1013	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Support for P4500 and P4600 Intel Datacenter SSD Series</li> <li>Hardened Driver Security</li> <li>Updated to NVMe Spec 1.2c</li> <li>Added support for Get/Set Feature Payloads when using vendor unique feature IDs</li> <li>Added support for the Storage Firmware Update IOCTL</li> </ul>
November	008	1.8.0.1011	<p>The following was fixed in this release:</p> <ul style="list-style-type: none"> <li>Unified driver build for P3520 &amp; other Intel Datacenter SSD Series</li> <li>NVMe driver no longer installs over the RSTe driver</li> <li>Adding support for the Windows 10 FW Update IOCTL</li> <li>Fixed Yellow Bang after surprise hot-plug that occurs in some cases</li> <li>Fixed BSOD during queue full condition with I/O</li> <li>Fixed BSOD during S3 resume that occurs in some cases</li> <li>Fixed BSOD during device power down that occurs in some cases on Windows 7</li> </ul>
August 2016	007	1.6.0.1001_x32-x64_P3520_only	Added support for P3520 device
		1.7.0.1002	No support for P3520 device
July 2016	006	1.7.0.1002	<p>The following was fixed in this release:</p> <ul style="list-style-type: none"> <li>BSOD during continuous reboot testing</li> <li>NVMe DVL errors blocking Windows Server 2016 Certification</li> </ul>
June 2016		1.6.0.1001	<p>New for this release:</p> <ul style="list-style-type: none"> <li>P3520 Dev ID and string recognition added</li> </ul>



Date	Document Version	Driver Version	Description
April 2016	005	1.5.0.1002	New for this release: <ul style="list-style-type: none"> <li>• Set SCSI Mode Sense FUA bit as supported</li> <li>• Minor performance improvement</li> <li>• Implement SCSI Verify translation to NVMe*</li> </ul>
September 2015	004	1.3.0.1007	New for this release: <ul style="list-style-type: none"> <li>• Windows 10 Certification</li> <li>• Single installer for both x32 and x64 based Operating Systems</li> </ul> The following was fixed in this release: <ul style="list-style-type: none"> <li>• After Uninstall device shows an “unknown device,” it now reports as PCIe* device.</li> <li>• BSOD when installed on systems with 0x120 logical Cores</li> <li>• Installer using silent install does not copy the license.</li> </ul>
June 2015	003	1.2.0.1002	The following was fixed in this release: <ul style="list-style-type: none"> <li>• Disable of NVMe Controller takes too long after S3+S4.</li> <li>• WHCK Trim Performance Test executable encounters a divide-by-zero error and fails to execute.</li> <li>• WHCK Rotational Rate Test Fails, Reporting 0 RPM</li> <li>• Update Windows Driver BusType to NVMe</li> </ul>
February 2015	002	1.1.0.1004	The following was fixed in this release: <ul style="list-style-type: none"> <li>• 0x9F BSOD during S3/S4 testing</li> <li>• BSOD due to low System Memory under 32bit</li> <li>• Drive does not translate some SCSI commands – READ CAPACITY, REQUEST SENSE and WRITE(6)</li> <li>• Windows Driver INF references Windows XP, there is no driver support and reference was removed</li> </ul>
September 2014	001	1.0.0.1023	Initial release version