

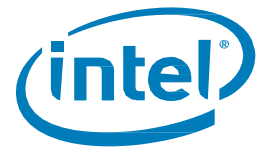
# Intel® Solid State Drive Client PCIe\* Microsoft\* Windows\* Driver

## Release Notes

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*April 2019*

*Software Version 4.3.0.1006*



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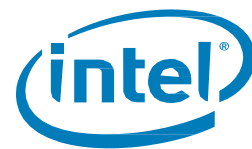
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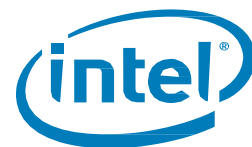
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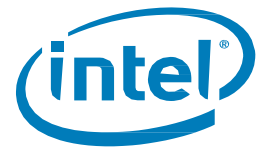


# Driver Revision History

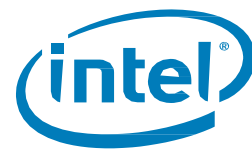
Date	Document Version	Driver Version	Description
April	017	4.3.0.1006	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Resolved possible BSOD when issuing a Query Property temperature request</li> <li>Improved hot plug handling</li> </ul> <p>Known issues:</p> <ul style="list-style-type: 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>
November	016	4.2.0.1002	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Support for Intel SSD 660p Series</li> <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> </ul> <p>Known issues:</p> <ul style="list-style-type: none"> <li>Possible BSOD when issuing a Query Property temperature request.</li> </ul>
July	015	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>
April	014	4.0.0.1007	<p>New for this release:</p> <ul style="list-style-type: none"> <li>Support for Intel Optane 905P Series</li> </ul>



Date	Document Version	Driver Version	Description
February	013	4.0.0.1007	<p>New for this release:</p> <ul style="list-style-type: none"> <li>• Support for Intel SSD Pro 7600p/760p/E 6100p Series</li> <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 900P 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>
August	010	3.1.0.1009	<p>New for this release:</p> <ul style="list-style-type: none"> <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>• 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>• 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>



Date	Document Version	Driver Version	Description
July 2016 June 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>
April 2016	005	1.5.0.1002	<p>New for this release:</p> <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	<p>New for this release:</p> <ul style="list-style-type: none"> <li>• Windows 10 Certification</li> <li>• Single installer for both x32 and x64 based Operating Systems</li> </ul> <p>The following was fixed in this release:</p> <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	<p>The following was fixed in this release:</p> <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	<p>The following was fixed in this release:</p> <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	<ul style="list-style-type: none"> <li>• Initial release version</li> </ul>
			<ul style="list-style-type: none"> <li>•</li> </ul>



Date	Document Version	Driver Version	Description