



INTEL® VIRTUAL RAID ON CPU (INTEL® VROC) SUPPORTED CONFIGURATIONS

Intel® VROC 6.1

This document covers the solid state drives (SSD), operating systems (OS), and configurations supported by Intel® Virtual RAID on CPU (Intel® VROC). If any of this information conflicts with the support information provided by a platform OEM or ODM, the platform documentation and configurations should take precedent.

The support guidance is dependent on the Intel® VROC version being used. This document is for Intel® VROC 6.1. If you are using another Intel® VROC version, please reference the Supported Configurations guide for that version.

NVME* SSD SUPPORT LIST

This section covers the SSDs that are supported on the product Intel® Virtual RAID on CPU. This includes the Intel® SSDs and third-party SSDs from other vendors.

Intel® SSDs	Third Party Vendor SSDs
<p>All Intel® SSDs for Data Center with NVMe* (including but not limited to):</p> <ul style="list-style-type: none">• Intel® SSD DC P3100 Series• Intel® SSD DC P3500 Series• Intel® SSD DC P3520 Series• Intel® SSD DC P3600 Series• Intel® SSD DC P3700 Series• Intel® SSD DC P4101 Series• Intel® SSD DC P4500 Series• Intel® SSD DC P4501 Series• Intel® SSD DC P4510 Series• Intel® SSD DC P4511 Series• Intel® SSD DC P4600 Series• Intel® SSD DC P4610 Series• Intel® Optane™ SSD DC P4800X Series• Intel® Optane™ SSD DC P4801X Series	<p>Huawei</p> <ul style="list-style-type: none">• ES3500P*• ES3600P* <p>Micron</p> <ul style="list-style-type: none">• 9100 Series*• 9200 Series* <p>Samsung</p> <ul style="list-style-type: none">• SM951*• SM961*• PM953*• PM961*• PM963*• PM983*
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<p>All Intel® Professional NVMe SSDs:</p> <ul style="list-style-type: none"> • Intel® SSD Pro 7600p Series • Intel® SSD Pro 6000p Series <p>Other select Intel® SSD Series:</p> <ul style="list-style-type: none"> • Intel® Optane™ SSD 900P Series • Intel® Optane™ SSD 905P Series <p>X8 Intel® NVMe SSDs (RAID0 Support only)</p> <ul style="list-style-type: none"> • Intel® SSD DC P3608 Series • Intel® SSD DC P4608 Series • Intel® SSD DC P4618 Series 	<p>Toshiba</p> <ul style="list-style-type: none"> • XG3* • XG5* <p>Lenovo</p> <ul style="list-style-type: none"> • Atsani* <p>Western Digital</p> <ul style="list-style-type: none"> • SN720*
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OS SUPPORT LIST

This section covers the operating systems that are supported on the product Intel® Virtual RAID on CPU.

Linux*	Windows*
<p>Intel® VROC for Linux* is delivered through inbox kernel. No additional software download is required. It is up to specific OSV's to pull-in Intel® VROC features and patches. The distributions below have some level of validated Intel® VROC support. Distributions in BOLD represent releases with the most up to date Intel® VROC code.</p> <p>RedHat Enterprise* Linux:</p> <ul style="list-style-type: none"> • RHEL 7.3 • RHEL 7.4 • RHEL 7.5 • RHEL 7.6 • RHEL 8.0 <p>SUSE Linux* Enterprise:</p> <ul style="list-style-type: none"> • SLES 12 SP3 • SLES 12 SP4 • SLES 15 	<p>Intel® VROC for Windows* is delivered through out-of-box software download. Please reference platform provider download resources for access.</p> <ul style="list-style-type: none"> • Windows* 10 (RS3/RS4/RS5/19H1) • Windows* 2012 R2 • Windows* 2016 • Windows* 2019



SUPPORT HW CONFIGURATIONS

This section covers the configurations and platform limitations supported on the product Intel® Virtual RAID on CPU.

Configurations	
<p>Maximum x4 PCIe SSD Totals Supported:</p> <ul style="list-style-type: none">• 4 Direct Attached SSDs per Intel® VMD domain• 24 SSDs per single Intel® VMD Controller when using switches• 24 SSDs per RAID 0/5 array• 4 SSDs per RAID10 array• 2 SSDs per RAID1 array• 48 SSDs per platform (may require switches)	<p>Platform Considerations:</p> <ul style="list-style-type: none">• Up to 2 levels of switches• Up to 2 RAID volumes per array• Data volumes are supported to span across 1 or more Intel® Volume Management Device domain and CPUs <p>Boot volumes may function when spanning Intel® Volume Management Device controllers, but this configuration is not supported.</p>

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

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