

Intel® Rapid Storage Technology (Intel® RST) 16.5.1.1030 Production Version Release

19 July 2018

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Supported Operating Systems[#]

Microsoft Windows 10 Redstone4 x64*
Microsoft Windows Server 2016 x64 Edition*

Revision History

Date	Driver Revision	Build Number
19 July 2018	16.5.1.1030 PV	1030

Notes:

1. Known Issue is defined as a potential Intel® RST issue that has been replicated internally by the Intel® RST team but has not been root caused to be an Intel® RST defect.
2. The RAID OROM & UEFI version for this release is 16.5.0.3492, the driver and user interface version is 16.5.1.1030. For Intel® RST Premium features (e.g. RAID, Intel® Optane™

memory, CPU Attached Storage), it is recommended that both the Intel® RST pre-OS and Intel® RST OS driver components are updated.

3. If RTD3 is enabled, Windows can turn off disk for very short time (e.g. 20ms). The minimum off time for some disks can be much longer (even 1s). If the disk is turned on too fast, it can hang in some undefined state. RTD3 should be disabled if the disk specification states longer minimum off time.
4. New features and updates added for this release:
 - Intel® Optane™ Memory End-User File, Application, and Folder Pinning in Intel® Optane memory User Interface(UI) and Intel® RST UI

Supported Hardware

Initial Intel® RST Release Version	Chipset Name	Platform / PCH / (Segment)	PCH SKU Details
16.5	Intel® 300 Series Chipset Intel® X299 Chipset Mobile Intel® 300 Series Chipset Mobile Intel® CM246 Chipset	Desktop	Intel® H310 Chipset ^(A) Intel® Q370 Chipset Intel® H370 Chipset Intel® B360 Chipset ^(O) Intel® Z370 Chipset
		High End Desktop	Intel® X299 Chipset
		Mobile	Intel® HM370 Chipset Intel® QM370 Chipset Intel® CM246 Chipset
N - 1			
	Intel® H110 Chipset Intel® 200 Series Chipset Intel® C236 Chipset Mobile Intel® 100 Series Chipset Mobile Intel® CM238 Chipset	Desktop	Intel® H110 Chipset ^(A) Intel® Q250 Chipset ^(O) Intel® H270 Chipset Intel® B250 Chipset ^(O) Intel® Z270 Chipset
		Workstation	Intel® C236 Chipset
		Mobile	Intel® HM175 Chipset Intel® QM175 Chipset Intel® CM238 Chipset

^(A) This base SKU of the chipset supports AHCI mode only

^(O) This base SKU of the chipset supports both AHCI and Intel® Optane™ memory modes only (non-RAID)

Known Issues In 16.5.1.1030 Production Version Release

ID	Title	Operating System
1305482762	Volume label of ODD drive remain unchanged after ejected CD/DVD disc in RAID mode.	windows.10_rs3.x64
2202694004	Can't disable write caching on Intel® Optane™ accelerated volume	windows.10_rs3.x64
1805815700	Sporadically restart option not showing, After enabling/disabling Intel® Optane™ using Intel® Optane™ installer	windows.10_rs3.x64
1805464013	Error event log ID7000/ID7009 (iaStorAfsService) show up after PBR reset/refresh.	windows.10_rs2.x64
1806201879	BSOD 0xef about"CRITICAL_PROCESS_DIED" occurred during do verify for created RAID0 after transfer RAID1 to RAID0 and create a RAID0.	windows.10_rs3.x64, windows.10_rs4.x64
1806201874	Create tab of IRST UI Stopped Working with NVMe SSD on CPU attached storage present along with other drives and remapping disabled	windows.10_rs3.x64

Terminology

Common Terms and Acronyms	Definition
AEN	Asynchronous Event Notification
AHCI	Advanced Host Controller Interface
ATA	Advanced Technology Attachment
ATAPI	Advanced Technology Attachment Packet Interface

OEM	Original Equipment Manufacturer
ODD	Optical Disk Drive
OROM	Option ROM
OS	Operating System
PCH	Platform Controller Hub
PCIe*	PCI Express (Peripheral Component Interconnect Express): is a high-speed serial computer expansion bus standard
Port	The point at which a SATA drive physically connects to the SATA controller.
PRD	Product Requirements Document
PUIS	Power Up In Standby - Drive feature that allows a spindle device to be powered up in standby mode without spinning the disk up.
RAID	Redundant Array of Independent Disks Matrix RAID: A configuration supporting two RAID levels by having two volumes in a single RAID array that use Intel® RST
RTD3	Runtime D3
RS2	Redstone2
SATA	Serial ATA
SIPM	Software Initiated Power Management
S.M.A.R.T.	Self-Monitoring, Analysis and Reporting Technology: an open standard for developing hard drives and software systems that automatically monitors a hard drive's health and reports potential problems.
SED	Self-Encrypting Drive
SRT (EOL)	Intel® Smart Response Technology. Intel® RST's premium feature to use caching technology that enables caching of a device or volume using a faster device. Note: This feature has EOL'd and is no longer supported beginning with the Intel(R) RST 16.0 product line
SSD	Solid State Drive – non volatile memory used as storage media
SSHD	Solid-State Hybrid Drive
TB	Tera-byte = 1024 ⁴ bytes
UEFI	UEFI pre-OS driver
UI	User Interface
VC	Validation Candidate
ZPODD	Zero Power Optical Disk Drive