

Configuring HP Elite, EliteBook, and Z220 systems for Intel Smart Response Technology

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Overview

Hard disk drives (HDDs) can be a bottleneck for storage-intensive operations due to the long access times inherent in their design. The lower latency and higher bandwidth of solid-state drives (SSDs) make them the preferred storage medium when high performance is a priority, although they incur a higher cost per bit than HDDs. With both storage technologies exhibiting advantages and drawbacks, using hybrid storage can be the optimum solution.

Select HP Elite, EliteBook, and Z220 series systems support a new feature called Intel Smart Response Technology. Intel Smart Response Technology is a faster access and caching feature of the Intel Rapid Storage Technology storage driver. Intel Smart Response Technology accelerates system response by placing frequently used blocks of disk data on a solid state drive (SSD) or mSATA drive.

In comparison to an HDD-only system, Intel Smart Response Technology provides the following benefits:

- Improved performance—Accelerates regular HDD performance through SSD or mSATA drive input.
- Increased system response times—Accelerates system boot, application startup, and multitasking functions.

The percentage of performance increase depends on one of the following acceleration modes.

- Enhanced mode (default)—acceleration optimized for data protection. This mode uses the write-through method, which writes data to both the HDD and the cache device simultaneously. There is no risk of data loss if either device becomes inaccessible.
- Maximized mode— acceleration optimized for I/O performance. This mode uses the write-back method, which writes data to the HDD only at intervals. There is a chance for data loss if the HDD or cache device becomes inaccessible.

The graphical user interface (GUI) of the Intel Rapid Storage Technology utility allows user control of the above modes and provides additional information on choosing the appropriate mode through the Help button. The Intel Rapid Storage Technology utility is accessed through one of the following paths:

- Start \rightarrow Intel \rightarrow Intel Rapid Storage Technology.
- Control Panel→Hardware and Sound→Intel Rapid Storage Technology

The following image displays the Status tab in the Intel Rapid Storage Technology GUI.

Status Aspid Scolege rechnology Status Aspid Scolege rechnology Aspid Scolege rechnology Accelerate Preferences Heip	(intel)
Image Click on any element in the storage system view to manage its properties. Image Image <t< th=""><th>Storage System View C Internal disk 19 G8 Internal system disk 298 G8 Internal ATA51 device</th></t<>	Storage System View C Internal disk 19 G8 Internal system disk 298 G8 Internal ATA51 device
	More help on this page

System requirements

Disk caching with Intel Smart Response Technology is supported on the following HP systems:

- HP Elite 8300 Business PCs
- HP EliteBook 8470, 8570, and 8770 Mobile Workstations
- HP Z220 CMT and SFF Workstations

The above systems must also meet the following hardware and software requirements:

- System BIOS with SATA mode set to RAID or RAID+AHCI
- 2nd Generation Intel Core or Xeon processor, or later
- Intel Series 7 or C216 bchipset or later
- Single hard disk drive (HDD) or multiple HDDs in a single RAID volume
- mSATA module or 2.5" SATA solid state drive (SSD) with a minimum capacity of 18.5 GB
- Intel Rapid Storage Technology software:
 - -- For HP Business PCs, version 11.0
 - -- For HP Workstations, version11.5
- Microsoft Windows 7 operating system—32-bit or 64-bit

How to enable Intel Smart Response Technology

To enable Intel Smart Response Technology, use the following procedure.

NOTE: To use Intel Smart Response Technology on a system with RAID, you must create the RAID volume first.

1. In the Acceleration tab, click the **Enable acceleration** link.



2. The Enable Acceleration dialog box appears. Select **Disk on port1 (298 GB) (system)** item, and then click the **OK** button if you choose to enable Intel Smart Response Technology.

😥 Intel® Rapid Storage Technology		
Status Manage Accel	Enable Acceleration Enable Acceleration Select the solid-state drive you want to use to accelerate your storage system: Solid-state drive you want to use to accelerate your storage system:	(intel)
Intel® Smart Response Te Your storage system can be accelerated Enable acceleration ⑦	Solid on port of 19 GB WARNING: Completing this action will permanently delete existing data on the selected disk. Back up data before continuing. Select the size allocated for the cache memory: 18.6 GB	
	Full disk capacity (maximum 64 G8) Select the disk or volume to accelerate: Disk on port 1 (298 G8) (system)	
	Select the book disk of volume for optimal system acceleration. Select the acceleration mode:	
	More help OK Cancel	
		More help on this page

3. The Acceleration View section confirms that the acceleration feature has been enabled.

I Intel® Rapid Storage Technology	(intel)
Intel® Smart Response Technology Your storage system is configured to use a solid-state drive as a cache device to increase system responsiveness, enable faster multi- tasking, and extend battery life. Acceleration Configuration Accelerated device: Disk on port 1 (system) <u>Disable acceleration</u> O You must first disable acceleration in order to accelerate a different disk or volume. Acceleration mode: Enhanced <u>Change mode</u> SSD Configuration SSD on port 0: Normal Usage: Cache device Serial number: CVLC1025006A0208	Acceleration View
	More help on this pa

How to disable Intel Smart Response Technology

To disable Intel Smart Response Technology, use the following procedure.

1. In the Acceleration tab under the Acceleration Configuration section, click the **Disable acceleration** link.

D Intel® Rapid Storage Technology	
Status Manage Colerate Preferences	intel
Intel® Smart Response Technology Your storage system is configured to use a solid-state drive as a cache device to increase system responsiveness, enable faster multi- tasking, and extend battery life. Acceleration Configuration Accelerated device: Disk on port 1 (system) O You must first disable acceleration in order to accelerate a different disk or volume. Acceleration mode: Enhanced Change mode ♥ SSD on port 0: Normal Usage: Cache device Serial number: CVLC1023006A0208	Acceleration View C Array,000 Volume,000 Vol
	More help on this page

2. The Disable Acceleration confirmation box appears. Click the **Yes** button to disable Intel Smart Response Technology.

Status Status Status Status <th>🔁 Intel® Rapid Storage Technology</th> <th></th> <th></th>	🔁 Intel® Rapid Storage Technology		
Intel® Smart Response Technology Your storage system is configured to use tasking, and extend battery life. Acceleration Configuration Acceleration Configuration Acceleration mode: Enhanced Changer SSD Configuration More help More help We have been been been been been been been be	Status Manage	te Preferences	(intel)
	Intel® Smart Response Ter Your storage system is configured to use tasking, and extend battery life. Acceleration Configuration Accelerated device: Disk on port 1 (syster You must first disable acceleration Acceleration mode: Enhanced Change m SSD Configuration SSD on port 0: Normal Usage: Cache device Serial number: CVLC1025006A0208	Disable Acceleration Disable Acceleration B Are you sure you want to disable acceleration on the disk or volume? Depending on the cache conditions, this operation may take a while to complete, and cannot be canceled. More help Yes No	View Volume,0000 19 GB 19 GB 10 GB

3.

The Acceleration Configuration section confirms that the acceleration feature has been disabled. **NOTE:** The cache volume will not be available for other uses unless the device is "Reset to available". Refer to the <u>How to reset the cache device</u> section for more details.

Intel® Rapid Storage Technology				- • • •ו
Status Manage	Preferences Help			(intel)
Intel® Smart Response Tech A solid-state drive is configured to be used a want to accelerate using the cache memory. Acceleration Configuration Accelerated device: None Select device Acceleration mode: None SSD Configuration SSD on port 0: Normal Usage: Cache device <u>Reset to available</u> Serial number: CVLC1025006A0208 Array_0000 Molecume Molecume 0000	nology is a cache device to improve the overall system performance. Select the disk or volume you	4	Acceleration View	Volume_0000 Type: RAD 0 Cache volume 19 GB
Velume Velume 0000				
				More help on this page

How to re-enable Intel Smart Response Technology

To re-enable Intel Smart Response Technology after it has been disabled, use the following procedure.

1. In the Acceleration Configuration section, click the **Select device** link.

Status Manage Accelerate Preferences		(intel)
Intel® Smart Response Technology A solid-state drive is configured to be used as a cache device to improve the overall system performance. Select the disk or volume you want to accelerate using the cache memory. Acceleration Configuration Accelerated device: None Select device: @ Acceleration mode: None SSD Configuration SSD on port 0: Normal Usage: Cache device Reset to available @ Serial number: CVLC1025006A0208 Array_0000 Memory	Acceleration View Array_0000	Volume,0000 User RAID 0 Cache volume 19 GS
		PROFESSION OF THE PROF

2. The Accelerate Disk or Volume dialog box appears. Select the **Disk on port1 (298 GB) (system)** item, and then click the **OK** button if you choose to re-enable Intel Smart Response Technology.

Intel® Rapid Storage Technology		
Status Manage Accelerate	erences Help	(intel)
Intel® Smart Response Technology A solid-state drive is configured to be used as a cache want to accelerate using the cache memory. Acceleration Configuration Accelerated device: None Select device SSD Configuration SSD on port 0: Normal Usage: Cache device Beest to available Serial number: CVLCL025006A0208 Array_0000	Accelerate Disk or Volume Select the disk or volume to accelerate: Disk on port 1 (298 GB) (system) Select the boot disk or volume for optimal system acceleration. Select the acceleration mode: Enhanced mode More help OK Cancel V	3 cceleration View C Amay_0000 Volume_0000 Vyer_RAID 0 Cache volume 19 G8 19 G8
		More help on this page

3. The Acceleration Configuration section confirms that the selected disk is now accelerated.

2 Intel® Rapid Storage Technology	
Status Manage Accelerate Preferences	(intel)
Intel® Smart Response Technology Your storage system is configured to use a solid-state drive as a cache device to increase system responsiveness, enable faster multi- tasking, and extend battery life. Accelerated device: Disk on port 1 (system) Disable acceleration ? You must first disable acceleration in order to accelerate a different disk or volume. Acceleration mode: Enhanced <u>Change mode</u> ? SSD Configuration SSD on port @ Normal Usage: Cache device Serial number: CVLC1025006A0208	Acceleration View C Array_0000 Volume_0000 Vppr: RAD 0 Cache volume 29 G8 Statemail system disk Accelerated 298 G8
	More help on this page

How to change the Intel Smart Response Technology mode

To change the Intel Smart Response Technology mode, use the following procedure.

1. To change the acceleration mode, click the **Change mode** link.

A Intel® Rapid Storage Technology	
Status Manage Recelerate Preferences	(intel)
Intel® Smart Response Technology Your storage system is configured to use a solid-state drive as a cache device to increase system responsiveness, enable faster multi-tasking, and extend battery life. Acceleration Configuration Accelerated device: Disk on port 1 (system) Disable acceleration IV Your must first disable acceleration in order to accelerate a different disk or volume. Acceleration mode: Maximized Change mode IV SSD Configuration SSD on port IV: Normal Usage: Cache device Serial number: CVLC1025006A0208	Acceleration View C Array_0000 Volume_0000 Type: RAID 0 Cache volume 19 GB 19 GB 19 GB
	More help on this page

2. The Enable Enhanced Mode confirmation box appears. Click the **Yes** button if you choose to change the acceleration mode to the Enhanced option.

🔁 Intel® Rapid Storage Technology		
Status Manage	Nerate Preferences	(intel)
Intel® Smart Response Your storage system is configured to tasking, and extend battery life. Acceleration Configuration Accelerated device: Disk on port 1 (s) You must first disable accelera Acceleration mode: Maximized Char SSD Configuration SSD on port 0: Normal Utage: Cache device Serial number: CVLC1025006A0208	Enable Enhanced Mode Enable Enhanced Mode Completing this action will change the acceleration mode to enhanced. Are you sure you want to continue? Depending on the cache conditions, this operation may take a while to complete, and cannot be canceled. More help Yes No	Volume,000 Volume,000 GB Volume,000 Cache volume 19 GB val system disk kerated GB

3. The Acceleration Configuration section confirms that the Enhanced mode is enabled. To change the acceleration mode to the Maximized option, click the **Change mode** link

Ca Intel® Rapid Storage Technology	
Status Manage Accelerate Preferences	intel
Intel I Smart Response Technology Your storage system is configured to use a solid-state drive as a cache device to increase system responsiveness, enable faster multi- tasking, and extend battery life. Acceleration Configuration Accelerated device: Disk on port 1 (system) Disable acceleration I Image: The second secon	Acceleration View
	More help on this page

4. The Enable Maximized Mode confirmation box appears with a WARNING. Click the **Yes** button if you choose to change the acceleration mode to the Maximized option in spite of the warning. Click the **No** button to heed the warning and make no changes.

Intel® Rapid Storage Technology		
Status Manage	Rerate	(intel)
Intel® Smart Response	Enable Maximized Mode	e e
Your storage system is configured to tasking, and extend battery life.	Completing this action will change the acceleration mode to maximized. Are you sure you want to	
Acceleration Configuration	continue?	Volume 0000
And a second sec	A WARNING: While in maximized mode, the system performance is highly improved, but cached data may	Type: RAID 0
Accelerated device: Disk on port 1 (s)	be lost in the event of hardware removal or hardware failure.	9 G8 19 G8
Acceleration mode: Enhanced Chang	More help	
SSD Configuration		nal system disk kerated GB
SSD on port 0: Normal		
Usage: Cache device		
Serial number: CVLC1025006A0208	v	
		More help on this page

How to reset the cache device

Resetting the cache device to "available" allows the device to be visible to the OS. To reset the cache device using the Accelerate tab, use the following procedure.

NOTE: Intel Smart Response Technology must be disabled before the cache device can be reset.

1. In the SSD Configuration section, click the **Reset to available** link.

Status Winge Status Winge Winge Winge Winge Winge Preferences Winge Help Control Configuration Accelerate device two mes Status Status Configuration Status Status Status Status Status Configuration Status Status Status Configuration Status Status Status Status Status Configuration Status Status Status Status Status Status Configuration Status Status Status Status Status Status Status Configuration Status Status Status Status <p< th=""><th>Intel® Rapid Storage Technology</th><th></th><th></th><th></th><th></th><th></th><th>- • ×</th></p<>	Intel® Rapid Storage Technology						- • ×
Intel® Smart Response Technology A solid-state drive is configured to be used as a cache device to improve the overall system performance. Select the disk or volume you want to accelerate using the cache memory. Image: Configuration Acceleration Configuration Acceleration Know Image: Configuration Acceleration Stop on prot 0: Normal Usage: Cache device Reset to available (*) Series I available (*) Series I available (*) Marray_0000 More help on this page	Status Manage	Preferences Preferences]				(intel)
	Intel® Smart Response Techn A solid-state drive is configured to be used as want to accelerate using the cache memory. Acceleration Configuration Accelerated device: None Select device @ Acceleration mode: None SSD Configuration SSD on port 0: Normal Usage: Cache device Reset to available @ Serial number: CVLCL025008A0208 Array_0000 Molume: Molume .0000	ology a cache device to improve the o	overall system performance	. Select the disk or volume you	Accelerat	ion View 000 200 19 GB	Voire RAD 0 Cache volume 19 GB

2. The Reset Cache to Available confirmation box appears. Click the Yes button if you choose to reset the cache device.

Intel® Rapid Storage Technology			X
Status Manage	Preferences Help		(intel)
Intel® Smart Response Techno	οαγ	Acceleration View	U
A solid-state drive is configured to be used as a want to accelerate using the cache memory. Acceleration Configuration Accelerated device: None Select device SSD Configuration SSD on port 0: Normal Usage: Cache device <u>Brest to available</u> Serial number: CVLC1025006A0208 Array_0000	Reset Cache to Available Resetting the solid-state drive used as a cache device to available will remov Are you sure you want to continue? More help	ve the cached data.	Volume_0000 Type: RAD 0 Cache volume 19 06
Maluma Maluma 0000		0	More help on this page

3. After the process is completed, a cache device will be shown and marked as Unallocated.

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File Action View Help										
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S Computer Management (Local Volur	me L	avout Type	File System	Status			Car	Actions		-
A 👔 System Tools	a) Si	imple Basi	NTFS	Healthy (Boot	Page File, Crash Dump	Primary Partition)	279	Dick Managem	ant	
Task Scheduler	TOOLS (E:) Si	imple Basi	FAT32	Healthy (Prim	ary Partition)		3.9€	bisk Manageri	en.	-
Event Viewer	covery (D:) Si	imple Basi	NTFS	Healthy (Prim	ary Partition)		14.7	More Acti	ons	'
Barformance	STEM SI	imple basi	C INTPS	Healthy (Syste	em, Active, Primary Part	ition)	199			
Device Manager										
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	1				1	J				
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Once a cache device has been set to being available, a restart of the computer management/storage/disk management utility will result in the OS displaying a popup message (shown below) allowing you to partition the drive if it is to be used as a separate drive.

e Action View Help	5		
Computer Management (Local	Volume	Layout Type File System Status	Actions
System Tools Task Scheduler Generation Generatio Generation Generation Generation Gener	HP_RECOVERY My Files (E:) OS (C:) SYSTEM	Simple Basic Healthy (Recovery Partition) (D:) Simple Basic NTFS Basic DF Healthy (Primary Partition) Simple Basic DF Healthy (Primary Partition) Simple Basic Simple Basic NTFS Healthy (Boot, Page File, Crash Dump, Primary Partition) Simple Simple Basic NTFS Healthy (System, Active, Primary Partition) Healthy (System, Active, Primary Partition)	Disk Management More Actions
Storage Storage Storage Storage Services and Applications	< ■Disk 0 Basic 298.09 GB Online	hitialize Disk You must initialize a disk before Logical Disk Manager can access it. Select disks: Disk 1 Disk 1 Use the following partition style for the selected disks: MRR (Master Boot Record) GPT (GUID Partition Table) Note: The GPT partition style is not recognized by all previous versions of Windows. It is recommended for disks larger than 2TB, or disks used on tanum-based computers.	
	Disk 1 Unknown 22.37 GB Not Initialized	22.37 GB Unallocated	
	CD-ROM 0 DVD 4.34 GB Online	My Files (E:) 4.34 GB UDF Healthy (Primary Partition)	

Configuring Intel SRT using the Option ROM

The option to configure the Intel Smart Response Technology using the option ROM (OROM) user interface (UI) is intended for service purposes **only**. This option is available **only** when an SSD/mSATA drive is used as cache.

The option to display the OROM prompt during POST is disabled by default. The OROM prompt is displayed **only** in the following cases.

- When the RAID or Intel Smart Response Technology configuration differs from the last boot; for example, when the mSATA drive is removed from the system.
- When the end user has enabled the OROM in the F10 BIOS Setup Utility.

The following procedure enables the user to configure Intel Smart Response Technology using the OROM.

1. The OROM UI can be enabled through the BIOS F10 Setup Utility. The following image displays the OROM UI item in the BIOS Setup Utility (the actual BIOS display may vary depending on platform). NOTE: The SATA emulation mode must be set to RAID or RAID+AHCI.

HEHLETT-PACKARD COMPUTER SETUP File Storage Security Power Advanced Power-On Options BIOS Power-On Onboard Devices	
Monitor Tracking Printer Mode Num Lock State at Power-On Integrated Video Internal Speaker <spread spectrum=""> NIC Option ROM Download SATA RAID Option ROM Download <processor freq.="" multiplier=""> <check attached="" devices="" during="" for="" of="" post?="" presence="" the=""> Multi-Processor Hyperthreading Turbo Mode</check></processor></spread>	►Disabled EPP+ECP Off Disabled Enabled Enabled Enabled Enabled Enabled Enabled Enabled
Aptio Setup Utility - Version 2.13.1216. Copyright (C) 2011 Ame	CCEpt, ESC=Cancel

- 2. After the system boots, when the OROM GUI displays, press CTRL+I.
- 3. The following image displays the CTRL–I instruction in the OROM GUI.



Replacing the cache device

The cache device can be replaced using one of the following procedures.

Replacing the cache device with another cache device pre-configured as RAID (cache) or storage mode

To replace the cache device with another cache device that is pre-configured as RAID (cache) or storage mode, follow these steps:

- Disable the Intel Smart Response Technology acceleration feature using the Accelerate tab, or the OROM UI.
 NOTE: If this step is not performed, the OS will not boot from the hard drive.
- 2. Shut down the system, and replace the cache device.
- 3. Power on the system. The OROM displays the new cache device as one of the following options, and then continues the boot sequence:

Disable—If the new cache device is pre-configured as the RAID (cache) mode

Non-RAID disk—If the new cache device is pre-configured as the storage mode

- 4. Access the **Intel Rapid Storage Technology** GUI, and enable Intel Smart Response Technology by following these steps:
 - a. In the RAID (cache) mode scenario, select **Disassociate** in the Accelerate tab, and then re-enable Intel Smart Response Technology.
 - b. In the storage mode scenario, select **Enable acceleration** in the Accelerate tab, and then re-enable Intel Smart Response Technology.

Replacing the cache device without disabling Intel Smart Response Technology

To replace the cache device without disabling Intel Smart Response Technology, follow these steps;

- 1. In the OROM prompt, the main HDD will be displayed as **Disabled**, and the boot sequence could **not** be continued.
- 2. Enter the OROM UI by using CTRL+I, and select R to disable the acceleration feature.
- 3. Exit the OROM UI, and continue to boot the system into Windows. Access the Intel Rapid Storage Technology interface, and enable Intel Smart Response Technology.

NOTE: The cache device will **not** be visible to the end user if Intel Smart Response Technology is enabled.

Frequently asked questions

Q: Does the user have to configure the Enhanced—Write through, or the Maximized—Write back, Intel Smart Response Technology mode every time when booting up the system?

A: No. At reboot the system displays the Acceleration mode that was enabled when the system was shut down. The user can then choose whether they want to change the mode.

Q: Does Intel Smart Response Technology save the last-state actions before the user turns off the system?

A: Yes. At reboot, the system displays all the enabled features and actions that were saved when the system was shut down

Q: After replacing the cache device or HDD, should any drive synchronization be required to make sure the system can return to the original state?

A: After replacing the cache device or HDD, the user has to reset the configurations for Intel Smart Response Technology. The system then automatically performs the drive synchronization

Q: After replacing the cache device or HDD, how does Intel Smart Response Technology prompt the user to start using the Enhanced—Write through, or the Maximized—Write back mode?

A: The OROM prompts the user to configure the Enhanced—Write through, or the Maximized—Write back mode.

Q: Does Intel Smart Response Technology diagnose, display, or report any errors when the user executes the Enhanced—Write through, or the Maximized—Write back mode? If yes, which reports are displayed?

A: Intel Smart Response Technology checks and displays information on the Acceleration modes without notifying the user of the status of the modes. No reports are provided.

Q: Should the user remove the cache device before performing a system recovery on the system?

A: Yes. Users are advised not to install a system image on the cache device.

Q: If I add a larger capacity SSD/msata device and configure the entire device for Smart Response Technology, will I get better performance?

A: Intel's Smart Response Technology is designed to work with a minimum cache size of 20 gigabytes. Increasing the capacity of the device will not necessarily result in a performance increase for most office environments but may benefit workstation users with heavier workloads. The Rapid Storage utility gives you the option to configure all or part of the Device for caching.

Q: How do I upgrade to a newer version of the Rapid Storage Technology driver if I have Smart Response technology enabled?

A: You must disable acceleration prior to upgrading the driver. After the new driver is installed and loaded, you can re-enable Smart Response Technology using the accelerate button in the utility.

Q: Is there a way to automate the creation of SRT configurations?

A: Creation of custom images that have SRT enabled will require the Intel "rstcli" utility. Please contact your HP pre-sales support engineer for more information.

For more information

To learn more about RAID configuration for desktop products refer to the white paper "<u>AHCI and RAID on HP Compag</u> <u>Elite 8000, 8100, 8200 and 8300 Business PCs</u>."

To learn more about configuring Intel SRT on HP workstations refer to the white paper "<u>Technical Review and</u> <u>Configuration Details of Intel Smart Response Technology on HP Workstations.</u>"

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