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MAINTAINING DELL PLATFORMS WITH DELL TECHNICAL UPDATES

Dell periodically releases updates for its servers, storage, and other enterprise platforms. These updates are classified as urgent, recommended, or optional depending on the enhancements they provide. Dell recommends customers keep their system firmware and software up-to-date to take advantage of these enhancements, which are designed to improve system functionality and minimize potential problems. The following table summarizes recent firmware updates for Dell™ PowerEdge™ components; for a complete list of firmware and drivers for Dell PowerVault™ tape drives, removable hard drives, external tape drives, autoloaders, and libraries, visit support.dell.com/support/edocs/stor-sys/matrix/pvmatrix/new_fw_d.htm. To sign up for Dell Technical Updates, visit support.dell.com/support/notifications/technicalupdates.aspx.

Firmware updates for Dell PowerEdge Expandable RAID Controllers (PERCs) and Serial Attached SCSI (SAS) controllers

Product	PERC 3	PERC 4/DC, PERC 4/SC	PERC 4e/DC, PERC 4e/Di, PERC 4e/Si	PERC 4/Di	PERC 5/i Adapter, PERC 5/i Integrated, PERC 5/E Adapter	SAS 5/iR Adapter, SAS 5/iR Integrated, SAS 5/i Integrated, SAS 5/E Adapter
Firmware version	199D	352D	5A2D	422D, 252D ^a	5.2.1-0067, 5.2.1-0066	00.10.51.00.06.12.05.00
Firmware release date	July 17, 2007	July 18, 2007	October 25, 2007	July 17, 2007	November 20, 2007	November 20, 2007
Criticality	Urgent	Recommended	Recommended	Recommended	Recommended	Recommended
Enhancement	Fixes system lockup and controller hang problem caused by single-bit/multi-bit errors in some configurations	■	■	■		
	Addresses problem that may occur if a drive fails within seconds after another drive completes a rebuild	■	■	■		
	Fixes problem in PERCs causing Virtual Machine File System (VMFS) volumes to disappear in VMware® ESX Server environments		■	■	■	
	Fixes Ctrl+R display issue caused by dynamic RAM (DRAM) initialization when BBU History is enabled					■
	Fixes problem causing hot spare to go offline during multiple virtual drive initialization					■
	Fixes problem in PERCs that allowed RAID-6 volume created on PERC 6 to import					■
	Modifies firmware to fail import of RAID-6 volumes created on a PERC 6, because the PERC 5 does not support RAID-6					■
	Addresses restriction during 128 KB stripe size RAID volume creation using Ctrl+R					■
	Enhances capabilities to provide notification of hard drive failure through server backplane LEDs					■
Improves handling of sense key/code/qualifier (SKQ) 02/04/11 data in firmware					■	

^a Firmware version 422D applies to PowerEdge 1750 servers, and 252D applies to PowerEdge 2600 servers.

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Firmware updates for Dell PERCs and SAS controllers (continued)

Product	PERC 3	PERC 4/DC, PERC 4/SC	PERC 4e/DC, PERC 4e/Di, PERC 4e/Si	PERC 4/Di	PERC 5/i Adapter, PERC 5/i Integrated, PERC 5/E Adapter	SAS 5/iR Adapter, SAS 5/iR Integrated, SAS 5/i Integrated, SAS 5/E Adapter
Firmware version	199D	352D	5A2D	422D, 252D ^a	5.2.1-0067, 5.2.1-0066	00.10.51.00.06.12.05.00
Firmware release date	July 17, 2007	July 18, 2007	October 25, 2007	July 17, 2007	November 20, 2007	November 20, 2007
Criticality	Urgent	Recommended	Recommended	Recommended	Recommended	Recommended
Enhancement	Enhances handling of backplane storage enclosure processor (SEP) reset after firmware download				■	
	Improves handling of PERC 5 and PERC 6 coexistence				■	
	Fixes issue with write cache bit settings being incorrectly toggled, causing warnings in database environments				■	
	Addresses problem that may occur if a drive fails in a virtual disk within seconds after another drive completes a rebuild				■	
	Fixes issues related to handling drive failures during RAID-level migration or online capacity expansion				■	
	Modifies PERC option ROM to improve cylinder/head/sector (CHS) to logical block address (LBA) translation, to add support for updated disk partition utilities					■
	Addresses spin-up issue for high-capacity Serial ATA (SATA) drives				■	
	Fixes issue causing errors during cable disconnect when connected to a PowerVault MD3000 enclosure					■
	Addresses issue causing interrupt warnings during OS installations					■
	Fixes issue with rebuild progress reporting in an OS environment					■
	Improves tape performance of SAS 5/E adapter with external SAS tape units					■
	Disables BIOS option to change the report-device-missing delay, which could potentially cause timing- and performance-related issues with attached devices when toggled					■
	Modifies Webpack script for SAS 5 cards to provide compatibility with other sixth-generation SAS controllers					■
Modifies SAS 5 option ROM to improve CHS to LBA translation, to add support for updated disk partition utilities					■	

^a Firmware version 422D applies to PowerEdge 1750 servers, and 252D applies to PowerEdge 2600 servers.