Dell Perc H200 Manual

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Book Descriptions:

Dell Perc H200 Manual

Page Count 92 CAUTION A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed. All rights reser ved. Reproduction of these materials in any manner whatso e ver without the written permission of Dell Inc.Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Dell Inc. disc laims any proprietary interest in trademarks and trade names other than its own. UCS71, UCS70, and UCSM70 July 2010 Rev. A01 PERC H200.book Page 2 Tues day, July 13, 2010 415 PM WARNING There is a danger of a new battery exploding if it is incorrectly installed. Replace the battery only with the same or equivalent ty pe recommended by the manufacturer. NOTE For complete information on U.S. T erms and Conditions of Sale, Limited Warranties and Returns, Export Regulations, Software License Agreement, Safety, Environmental and Ergonomic Instructions, Regulatory Notices, and Recycling Information, see the Safety, Environmental and Regulatory Information, En d User License Agreement, and Warranty and Support Information that shipped with your sy stem. Do not service any product exce pt as e xplained in your user documentation. Opening or removing covers that ar e marked with the triangular symbol with a lightning bolt may expose you to electrical shock. Do not attempt to open or service batteries; replace batteries only with batteries designated for the product. PERC H200.book Page 9 Tues day, July 13, 2010 415 PM CAUTION Except as expressly otherwise instruct ed in Dell documentation, only trained service technicians are authorized to remove the sy stem cover and access any of the components inside the sy stem. CAUTION T o help avoid possible damage to the sy stem board, wait 5 seconds after turning off the sy stem befor e removing a component from the sy stem board or disconnecting a peripheral device. 1 T urn off the system an d any connected devices.http://kitchensofdiablo.com/upload/innova-bensin-manual-vs-matic.xml

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2 Disconnect your system and devices fr om their power sources. T o reduce the potential of personal injury or shock, disconnect any telecommunicati on lines from the system. 3 Ground yourself by touching an unpainted metal surface on the chassis before touching anything inside the system. 4 While you work, periodical ly touch an unpainted metal surfac e on the chassis to dissipate any static electricity that might harm internal components. Some cables have a connector w ith locking tabs. If you are disconnecting this type of cable, press in on the locking tabs before disconnecting the cable. As you pull connectors apart, keep them evenly ali gned to avoid bending any connector pins. Hold a card by its edges or by its me tal mounting brack et. Hold a component such as a microprocessor chip by its edges, not by its pins. Protecting Against Electrostatic Discharge Electrostatic discharge ESD events can harm el ectronic components inside your system. Under certain conditions, ESD may build up on your body or an object, such as a peripheral, and then discharge into another object, such as your syst em. T o prevent ESD da m ag e, you m u st d is ch a r ge static electricity from your body b efore you interact with any of your system’s internal electronic components, such as a memory module. When connec ting a peripheral incl udi ng ha ndhe ld di gita l assistants to your system, you should always g round both yourself and the peripheral before connecting it to the system.The NiMH, lithium coin cell, and lithiumion batteries

are longlife batteries, and it is possible that you will never need to replace them. NOTE Do not dispose of the battery along with household waste. Contact your local waste disposal agency for the address of the nearest battery deposit site. NOTE Y our sy stem may also include circuit cards or other components that contain batteries. These batteries too must be disposed of in a battery deposit site.http://haibeiflavor.com/uploads/file/2020/12/050651449616.xml

For information about such batteries, see the documentati on for the specific card or component. T aiwan Battery Recycling Mark PERC H200.book Page 11 Tuesday, July 13, 2010 415 PM The car d also enables support for internal tape drives in P o werEdge systems only. The 6Gbps SAS HBA provides support for Dellsupported external SAS tape devices. The PERC H200 and 6Gbps SAS HBA car ds ar e all standard half length, halfheight PCIE cards, e x cept fo r the PERC H200 Integrated Modular controller on the blade systems. The PERC H200 and 6Gbps SAS HBA car ds are supported with PCIE x8 link width. The cards can be used on platfo rms with PCIE x8 and x16 connectors, and communicates with SAS devices using 2x4 miniSAS external connectors. The PERC H200 Integrated Modular controller supports PCIE x4 link width only.Data throughput improves because multiple disks can be accessed simult aneously. R AID systems also improve data storage availability and fault tolerance. It provides high data throughput and complete data redundancy. CAUTION Lost data on a RAID 0 disk can not be recovered in the event of a phy sical disk failure. RAID T erminology RAID 0 R AID 0 allows you to write data across multiple physical disks instead of just one phys ica l di sk. R AID 0 in vol ves pa rti tio nin g e ach phy si cal dis k st ora ge spa ce int o 6 4 KB str ipe s. These stripes are interleaved in a r epeated sequential manner. The part of the stripe on a sing le physical disk is called a stripe element. F or example, in a four disk system using only R AID 0, segment 1 is written to dis k 1, se gme nt 2 is written to disk 2, and so on. R AID 0 enhances performance because multiple physical disks are accessed simultaneously, but it does not provide data redundancy. F igure 22 shows an example of R AID 0. PERC H200.book Page 15 Tuesday, July 13, 2010 415 PM If one disk fails, the contents of the other disk can be used to run the system and rebuild the failed physical disk.

The primary advantage of R AID 1 is that it provides 100 percent data r edundancy. Because the contents of the disk are completely written to a second disk, the system can sustain the failur e of one disk. Both disks contain the same da ta at all times. Either physical disk can act as the operational physical disk. NOTE Mirrored phy sical disks im prove read performance by read load balance. Figure 23. Example of RAID 1 stripe element 1 stripe element 5 stripe element 9 stripe element 2 stripe element 6 stripe element 10 stripe element 3 stripe element 7 stripe element 11 stripe element 4 stripe element 8 stripe element 12 stripe element 1 stripe element 2 stripe element 3 stripe element 1 duplicated stripe element 2 duplicated stripe element 3 duplicated stripe element 4 stripe element 4 duplicated PERC H200.book Page 16 Tuesday, July 13, 2010 415 PM Multiple R AID 1 sets are combined to form a sing le array. Data is striped across all mirrored drives. Since each drive is mirror ed in R AID 10, no delay is encountered because no parity calculat ion is done. This R AID strategy can tolerate the loss of multiple drives as long as two drives of the same mirrored pair do not fail. R AID 10 volumes provide high data throughput and complete data redundancy. Figure 24. Example of RAID 10 stripe element 1 stripe element 3 stripe element 5 stripe element 1 duplicated stripe element 3 duplicated stripe element 5 duplicated stripe element 7 stripe element 7 duplicated stripe element 2 stripe element 4 stripe element 6 stripe element 2 duplicated stripe element 4 duplicated stripe element 6 duplicated stripe element 8 stripe element 8 duplicated PERC H200.book Page 17 Tuesday, July 13, 2010 415 PM Dellcompliant SAS and SA T A compatibility Ye s Dellsupported direct connected end devices Dellsupported external tape devices. Hot add or Hot remove of end devices Ye s Support for external tape drive Y es P ort activity or status LEDs Y es Hardwar ebased R AID No T able 32.

Specifications of 6Gbps SAS HBA Specification 6Gbps SAS HBA PERC H200.book Page 22 Tuesday, July 13, 2010 415 PM The LEDs enable you to quickly determine the status of an external SAS port. Each x4 connec tor has its own set of LEDs. Green All links in the port are connected and functional. Amber One or more links in the port is not connected. This is only applicable in a wide port configuration. PERC H200.book Page 23 Tuesday, July 13, 2010 415 PM NOTE It is recommended th at you use a backup powe r source for all Dell production sy stems. On a PERC H200 car d, caching is forced to be disabled for all physical disks configured into a virtual disk, r egar dless of the drive type and default drive settings. Unsupported Drives Drives that are not certified by Dell ar e r eported in the BIOS Configuration Utility, also known as. T o view unsupported drives 1 In the BIOS Configuration Utility, navigate to the SAS T opology screen. 2 Select the unsupported drive and press to view the Device P roperties screen. The drive is marked as Uncertified in the Device P roperties screen. Drives that are not certified by Dell ar e not block ed and you can use them at your own risk. PERC H200.book Page 24 Tuesday, July 13, 2010 415 PM Y ou should only perform tr oubleshooting and simple repa irs as authorized in your product documentation, or as direc ted by the online or telephone service and support team. Damage due to servicing that is not authorized by Dell is not covered by your warranty. Read and follow the safety instr uctions that came with the product. 1 Unpack the PERC H200 car d or 6G bps SAS HBA and check for damage. NOTE Contact Dell if the controller is damaged. 2 T urn off the system and attached peri pherals, and disconnect the system from the electrical outlet. See your system’s Hardware Owner’s Manual or the User ’s Guide for more information on power supplies. 3 Disconnect the system from the ne twork and remove the cover of the system.

See your system’s Hardware Owner’s Manual or the User ’s Guide for more information on opening the system. 4 Select an appropriate PCIE slot. If replacing a PER C H200 Adapter or 6Gbps SAS HBA, remove the blank fi ller brack et on the back of the system aligned with the PCIE slot you have selected. NOTE For more information about your sy stem’ s PCIE slots, see your sy stem’ s Hardware Owner’ s Manual. 5 Align the controller to the P CIE slot you have selected. PERC H200.book Page 25 Tuesday, July 13, 2010 415 PM See F igure 41. NOTE Figure 41 display s the 6Gbps SAS HBA, but the installation instructions in this section are common for the H 200 Integrated, H200 Adapter and 6Gbps SAS HBA. NOTE The H200 Integrated card may have a de dicated PCI slot. For additional details, see the sy stem’ s Hardware Owners Manual on the Dell Su pport website at support.dell.com. Figure 41. Installing a 6Gbps SAS HBA 1 bracket scr ew 2 6Gbps SAS HBA 3 PCIE slot 1 2 3 PERC H200.book Page 26 Tuesday, July 13, 2010 415 PM See F igure 42. Figure 42. Connecting the Cable for PERC H200 9 F or the 6Gbps SAS HBA controller, co nnect the cable from the external enclosure to the adapter. See F igur e 43. NOTE The external cable can be co nnected to either of the two external connectors. 1 SAS x4 internal connector 2 cable 3 PERC H200 Car d 3 2 1 PERC H200.book Page 27 Tuesday, July 13, 2010 415 PM See your system’s Hardware Owner’s Manual or the User ’s Guide for more information on closing the system. 11 Reconnect the power cables and network cables, and then turn on the system. NOTE Ensure that you do n ot connect a hard disk and tape drive to the same PERC H200 card.T o remove the storage controller car d 1 Remove the Dell Blade system from the Blade system chassis. 2 Remove the system cover of the Blade system. 3 Remove the system board and place it on a stable and flat surface.

4 Open the release lever to disconnect the storage controller car d edge connector from the system board co nnector as illustrated in F igur e 44. 5 Lift the storage controller card straight up from the system boar d as illustrated in F igure 44. Figure 44. Removing and Ins talling the Storage Controller Card 1 storage controller card 2 release lever 1 2 PERC H200.book Page 29 Tuesday, July

13, 2010 415 PM NOTE If the card is damaged, contact Dell technical support. 2 Place the storage controller card onto the system boar d. Align the storage controller card such that the tabs on the system boar d tray fit through the notches on the edges of the storage controller card. 3 Slide the storage controller card towa r ds the connector on the system board until the storage cont roller clicks in place. 4 Reinstall the system board. F or more information on r einstalling the system board, see your system's Hardware Owner's Manual or the User 's Guide. 5 Close the top cover of the Blade system. F or more information on closing the top cover of the Modular Blade system, see your system's Hardware Owner's Manual or the User 's Guide. 6 Reinstall the Blade system in the Blade system chassis. F or more information on reinstalling the Blade system in the Blade system chassis, see your system's Hardware Owner' s Manual or the User 's Guide. NOTE For the latest list of firmware and in stallation instructions, see the sy stem documentation located at the Dell Support website at support.dell.com. PERC H200.book Page 30 Tuesday, July 13, 2010 415 PM For driver updates, see the Dell Support website at support.dell.com. NOTE Operating sy stem installation on a RAID 1, RAID 0 or a RAID 10 virtual disk is supported only when the virtual disk is in an optimal state. NOTE T o ensure you have the latest versio n of any driver mentioned in this section, check the Dell Support website at support.dell.com. If a newer version exists, you can download the driver to your sy stem. PERC H200.

book Page 31 Tuesday, July 13, 2010 415 PM Creating the Driver Media P erform the following steps to create the driver media 1 F rom the Dell Support website at support.dell.com, browse to the download section for the system. 2 Locate and download the latest PERC H200 or 6Gbps SAS HBA car d driver to the system. 3 F ollow the instructions on the Dell Support website for extracting the driver to the media. Creating the Device Driver Media Use one of the methods described in th e following sections to create the device driver media. Downloading Drivers From the Dell Sy st ems Service and Diagnostic T ools Media 1 Insert the Dell Systems Service and Diagnostics T ools media into a system. The W elcome to Dell Ser vice and Diagnostic Utilities screen is displayed. 2 Select your system model and operating system. 3 Click Continue. PERC H200.book Page 32 Tuesday, July 13, 2010 415 PM Select the self e xtracting zip file and click Ru n. Copy the driver to a diskette drive, CD, D VD, or USB drive. Downloading Drivers From the Dell Support Website 1 Go to support.dell.com. 2 Click Drivers and Downloads. 3 Enter the service tag of your system in the Choose by Service T ag field or select your system's model. 4 Select the System T ype, Operating System, Driver Language, and Category from the dropdown list. 5 The drivers that are applicable to your selection ar e displayed. Installing the Driver During a Windows Server 2003 Operating Sy stem Installation P erform the following steps to install the driver during operating system installation. 1 Boot the system using the W indows Server 2003 media. 2 When the message P ress F6 if you need to install a third party SCSI or R AID driver appears, press the k ey immediately. W ithin a few minutes, a screen appears that asks for additional controllers in the system. PERC H200.book Page 33 Tuesday, July 13, 2010 415 PM The system prompts for the driver media to be inserted.

NOTE The driver can be provided usin g a properly formatted USB key. Check the Dell Support website at support.dell.com for additional details. 4 Insert the driver media in the media drive and press. A list of SAS controllers appears. 5 Select the right driver for the insta lled controller and press to load the driver. NOTE For Windows Server 2003, a message can appear that states that the driver that you provided is older or ne wer than the existing Windows driver. Press to use the driv er that is on the media. 6 P r ess again to continue th e installation process as usual. Insert the installation media and browse to the prop er location when prompted. 4 Select the appropriate PERC H200 car d from the list, click Next and continue installation as usual. NOTE The Windows Server 2008 R2 operating sy stem includes native support for the PERC H200 card. The dr iver is automatically installe d. For driver updates, see the Dell Support website at support.dell.com. PERC H200.book Page 34 Tuesday, July 13, 2010 415 PM The W indows operating system detec ts the new

controller and displays a message to inform you. 4 The F ound New Hardware Wizard screen displays the detected har dwar e device. 5 Click Next. 6 On the Locate device driver screen, select Search for a suitable driver for my device and click Next. 7 Make the Driver F iles available and browse to th e proper location from the Locate Driver F iles screen. 8 Click Next. 9 The wizard detects and installs the appropriate device drivers for the new R AID controller. 10 Click Fi n i s h to complete the installation. 11 Reboot the system if W indows request to do so. NOTE The Windows Server 2008 R2 operating sy stem includes a device driver to support the SAS controllers. The sy stem automatically detects the new controller and installs the driver. Check the version of the driver installed by Windows and update if necessary. PERC H200.book Page 35 Tuesday, July 13, 2010 415 PM The Device Manager screen is displayed.

NOTE An alternative method is to open Device Manager. In Windows Explorer, rightclick on My Computer and select Manage. The Computer Management screen is displayed. Select Device Manager in the left panel. 4 Doubleclick on SCSI and R AID Controllers. NOTE In Windows 2008, SA S is listed under Storage Controllers. 5 Doubleclick the R AID controller for whic h you want to update the driver. 6 Click the Driver tab and click Update Driver. The Upgrade Device Driver Wizard screen is displayed. 7 Make the driver files available wi th the USB k ey, or other media. 8 Select Install from a list or specific location. 9 Click Next. PERC H200.book Page 36 Tuesday, July 13, 2010 415 PM Installing Linux Driver Use the procedures in this section to install the driver for Linux. The driver is updated frequently. T o ensure that you h ave the curr ent version of the driver, download the updated Linux driver from the Dell Support website at support.dell.com. NOTE The driver update disk DUD images are created only for those operating sy stem releases in wh ich the native inbox driver is insufficient for installation. In the event that an operati ng sy stem is being instal led with a corresponding DUD image, follow the instructions belo w. NOTE Red Hat Enterprise Linux 5, SUSE Linux Enterprise Server 10 and SUSE Linux Enterprise Server 11 use the mpt2sas driver, whereas Red Hat Enterprise Linux 4 uses the mpt2sasbtm driver. Examples in th is section refer to the mpt2sas driver only. For Red Hat Enterprise Linux 4, replace mpt2sas with mpt2sasbtm. Creating a DUD Before beginning the installation, copy the drivers from the Service and Diagnostic Utilities media or download the approp riate driver fo r Linux from the Dell Support website at support.dell.com. This file includes Red Hat P ackage Managers RPMs and driver update disk files. The package also contains the Dynamic Kernel Module Support DKMS Red Hat P ackage Manager RPM file, source code, and release notes.

F or more information on DKMS, s ee the Dell Support website at support.dell.com. PERC H200.book Page 37 Tuesday, July 13, 2010 415 PM Afte r downloading the package to a Linux system, perform the following steps 1 Unzip the package using gunzip. 2 Untar the file using tar xvf. Use the appropriate image for the purpose.Use the appropriate image for the purpose.Use dmesg to find out to which device this USB floppy is enumerated for example, sdb, sdc, etc.NOTE The driver must be installed on the sy stem where this procedure is performed. 1 Install the DKMSenabled mpt2sas driver rpm package. 2 T ype the following comma nd in any directory dkms mkdriverdisk m mpt2sas v k d NOTE The values for the d option are suse for Suse Linux Enterprise Server diskettes and redhat for RHEL diskettes. NOTE For more information on usage of DKMS, see the DKMS man page. This starts the process to create the mpt2sas DUD image. After the DUD image has been built, you can find it in the DKMS tree for the mpt2sas driver. See the output of the dkms mkdriverdisk command for the exact path.F or SLES 11, select. The system displays three options Ye s, No, and F ile. Choose Ye s to install the driver. 3 Select Installation from the menu. 4 P r ess to load the Linux kernel. 5 At the prompt Please insert the driver update floppy, click OK. The system selects the driver from the diskette and installs it. The system displays the message DRIVER UPD A TE ADDED with the description of the driver module. 6 Click OK. If you want to install from anothe r driver update medium, continue with the following steps. 7 The system displays the message PLEASE CHOOSE DRIVER UPD A TE MEDIUM. 8 Select the appropriate driver update medium. The system

selects the driver from the disk and installs it. PERC H200.book Page 40 Tuesday, July 13, 2010 415 PM Upgrading the Kernel When upgrading to a new kernel, you must r einstall the DKMSenabled driver packages.Y ou must p ress any k ey to continue.

The BIOS Configuration Utility allows you to choose to continue booting or stop booting if errors are encounter ed. PERC H200.book Page 43 Tuesday, July 13, 2010 415 PM I f yo u ad d a P E RC H 2 00 o r 6 G bp s SAS HBA card or r elocate e xisting controllers in the system, enter the BIOS Configuration Utility to update and verify the boot order selection. F ailure to do so results in a warning message displayed at POST by the BIOS. The warning persists until the you verify the boot order in the BIOS Configuration Utility. NOTE Sy stem boot is not supp orted from an external device attached to a 6Gbps SAS HBA card. See the Dell Support website at support.dell.com for the latest information on booting from external devices. Configuration Utility Starting the Configuration Utility 1 Boot the system. 2 P r ess during POST when prompted. If you wait too long and the operating system logo appears, continue to wait until the operating system comp letes bootup. Then restart your system and try again. The Configuration Utility menu screen is displayed. Functions Performed NOTE The screens are organized in a hierarch ical fashion and navigation hints are displayed at the bottom of each screen. For additional informati on about the utility, see the online help. PERC H200.book Page 44 Tuesday, July 13, 2010 415 PM Global P roperties Lists static and modifiable proper ties applicable to all PERC H200 and 6Gbps SAS HBA cards in the system. Adapter P roperties Main screen for the selected controller. Lists the static and modifiable properties for the selecte d PERC H200 and 6Gbps SAS HBA cards. P rovides a menu for additional screens. Select New V olume T ype P rovides the option to view existing arrays or cr eate new volumes. Create New V olume P rovides the ability to add device s to the specified new volume. View V olume Displays the properties for the existing volume and the option to enter the Manage V olume screen.

Manage V olume Provides options for managing the current volume. Manage Hot Spares P rovides the ability to add or remove global hot spar es. SAS T opology Lists the physical top ology for the selected controller. Device P roperties Lists the properties of physical d evices attached to the selected controller. Advanced Adapter P roperties Lists the advanced properties for the selected controller. PERC H200.book Page 45 Tuesday, July 13, 2010 415 PM Onli ne help is also available in the utility. NOTE After you press, press on the adapter to manage it. RAID Configuration and Management Screens R AID configuration and management involves many GUIs. Y ou can access the GUIs by selecting RAID P roperties on the Adapter P roperties screen. Select V iew Existing volume to manage the volume s, or select the appropriate option to configure a new vo lume, if at least one R AID volume is currently configur ed. V erify Provides the ability to verify a ll sectors on the device and to r eassign defective Logical Block addresses LBAs. Consistency Check P rovides the ability to run a consistency check on an optimal volume. Delete P rovides the ability to delete the selected volume. Activate V olume P rovides the ability to import a foreign volume. T able 61. Functions of t he Configuration Utility continued Function Description PERC H200.book Page 46 Tuesday, July 13, 2010 415 PM After the volume is created, the utility r eturns to the Adapter P roperties screen. See the table below for t he volume properties description. NOTE It is recommended tha t you back up your data prior to addi ng or updating configurations. T able 62.

V olume Field Descriptions Field Description V olume Number Number of current volume o ut of total arrays configur ed V olume Identifier Identifier text for the curr ent volume V olume Ty p e T ype of volume R0, R1 or R10 V olume Size GB Size of the volume NOTE T o facilitate coercion on new larger disk drives, the disk size must be coerced down with a facto r of 128 MB. Additionally, to comply with the latest Disk Data Format standard, 512 MB of space must be reserved for RAID metadata on the drive. This results in several hund red MB of space being removed from the usable size of an volume when it is created. PERC H200.book Page 47 Tuesday, July 13, 2010 415 PM

Degraded —One or more members of a R AID 1 or R AID 10 volume have failed or are offline. The volume can be r eturned to the Optimal state by replacing the failed or offline member. Disabled —The volume is disabled Quiesced —The volume is quiesced Res y nc —The volume is resynchronizing F ailed —The volume has failed P ermDegraded —The volume is permanently degraded. This state indicates that the failure thr eshold on the primary member was r eached while no secondary was available for correction. The data on the volume may be accessible, but the volume ca nnot be returned to the optimal state. Inactive —The imported volume is inac tive. The volume must be activated before it can be accessed. Initializing —The array is undergoing Background Initialization BGI P ending —The array is queued up fo r a Background Initialization Checking —The array is queued up for a Consistency Check Slot Number Slot number in which the specified device sits Device Identifier Identifier text for the specified device RA ID Disk Specifies whether or not the disk is pa rt of a RAID volume Y es or No.Missing Disk is not detected. F ailed Disk is not accessible or has reported a failure. Initing Disk is initializing. CfgOffln Disk is offline at hosts request. UserF ail Disk is marked failed at hosts request.

Offline Disk is offline for some other reason. Inactive Disk has been set to inactive. Not Syncd Data on disk is not synchroni zed with the rest of the volume. Pr i m a r y Disk is the primary disk fo r a 2 disk mirror and is OK. Secondary Disk is the secondary disk for a 2 disk mirror and is OK. Wr g T y p e Device is not compatible fo r use as part of a R AID volume. T oo Small Disk is too small to mirror existing data. No SMAR T Disk doesnt support SMAR T and cant be used in a RAID volume. Pre d i c t e d F ailure Indicates whether devi ce SMAR T is predicting device failure. Size GB Actual physical size of the selected disk in the volume. NOTE The PERC H200 cards do support Driv e Status LED operation on PowerEdge sy stems which include drive status LEDs. Sta tus LED support is only supported for drives which are configured as members of a Vir tual Disk or Hot Spar e. PERC H200 supported Drive Status LED states may va ry from those supported by other hardware based RAID solutions such as the PERC H700 and H800 controllers. NOTE Replacing a member of a volume in the Permanently Degraded state will result in the new phy sical disk being displayed as fai led since resynchronization is not possible. This does not indicate an actual failure on the new phy sical disk. T able 62. V olume Field Descriptions continued Field Description PERC H200.book Page 49 Tuesday, July 13, 2010 415 PM P ress to view the ne xt volume. See T able 62 to view descriptions of each virtual disk property. Manage V olume The Manage V olume screen is used to manage the curr ent volume. The options are Manage Hotspares, Consistency Check, Activate V olume, and Delete V olume. T able 63. Manage V olu me Field Descriptions Field Description Identifier The identifier of the volume T ype The RAID type of the volume Size GB The coerced size of the volume NOTE T o facilitate coercion on new larger disk drives, the disk size must be coerced down with a factor of 128 MB.