
README.TXT

Adaptec ASR-2045/ASR-2405 Unified Serial Controllers

as of March 31, 2008

Please review this file for important information about issues and errata that were discovered after completion of the standard product documentation. In the case of conflict between various parts of the documentation set, this file contains the most current information.

NOTE: The latest firmware, BIOS, drivers and documentation can be downloaded from www.adaptec.com when they become available.

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1. Software and Documentation

1.1. Controller & Utility Software

Note: The latest versions of firmware, BIOS and driver software can be downloaded from www.adaptec.com when they become available.

- BIOS
- ACU
- Windows Drivers
 - o Windows 2003 Server, Enterprise, Standard, and Web Edition
 - o Windows 2008 Server, Enterprise, and Standard
 - o Windows XP All versions
 - o Windows Vista All versions
- Linux Drivers

- o Red Hat Enterprise 4.0, IA-32 and x64
- o Red Hat Enterprise 5.0, IA-32 and x64
- o SuSE Linux Enterprise Server 9.0, IA-32 and x64
- o SuSE Linux Enterprise Server 10.0, IA-32 and x64
- FreeBSD Drivers
 - o FreeBSD 6.1/6.2 (ARCCONF 32/64-bit)
- SCO Drivers
 - o OpenServer 6.0
 - o UnixWare 7.1.4
- VMware Drivers
 - o VMware ESX Server 3.0.1 and 3.0.2
- Sun Solaris Drivers
 - o Solaris 10 Update 1
- 1.2. Documentation on this CD
 - Adaptec SAS RAID Controllers Installation and User's Guide
 - Adaptec SAS RAID Controllers README.TXT file

2. Installation Instructions

- The Adaptec SAS RAID Controllers Installation and User's Guide contains complete installation information for the controllers and drivers, as well as complete instructions for all utilities. The Adaptec Storage Manager User's Guide contains complete installation information for the Adaptec Storage Manager software.

3. General Cautions

- While an array is being built or cleared, DO NOT remove and reinsert any drive from that array. Doing so may cause unpredictable results for any of the controller's arrays.
- While a drive is being cleared, DO NOT try to include it in a new array. Doing so may cause unpredictable results.
- DO NOT move drives containing an array or volume from one controller to another while the power is on. Doing so could cause the loss of the array configuration or data, or both. Instead, power off both affected controllers, move the drives, and then restart.

4. Known Limitations

4.1 ACU Utility

o On some Intel and IBM systems, when you try to run the ACU utility, this message appears:

"Not enough free memory to load the utility!

Press any key to attempt loading the utility forcibly

OR Wait for the system initialization to be completed

[Default]"

This is normal. On Intel systems, wait for the system initialization to be completed. Then the ACU will run. On IBM systems, press any key when prompted to load the utility forcibly.

- o The ACU erroneously displays deleted logical drives in the JBOD list. The logical drive(s) continue to appear in the JBOD list until you delete all of the JBODs.
- o With some enclosures, the ACU displays incorrect box/slot information for managed disk drives; for example, Exp/Phy instead of Box/Slot.

4.2 FreeBSD

Storage management for FreeBSD must be done through the Adaptec Configuration Utility (ACU) and ARCCONF command line utility. Refer to the User Guides on the two CDs provided with your controller.

4.3 OpenServer 6.0

Arrays may not be displayed correctly, even after you restart your computer.

To resolve the problem:

As root, run 'resmgr -r -m vtoc' until it fails. Then, as root, run '/etc/conf/bin/idconfupdate -f'. Then, reboot.

4.4 Creating an Array from the Adaptec Storage Manager CD

When you create an array with the Adaptec Storage Manager bootable CD, the maximum size of the array is 2 TB.

4.5 Using the Controller with an Adaptec S50 JBOD Enclosure

Temperature warnings from Adaptec S50 JBOD Enclosure (firmware version T016) are not shown in Adaptec Storage Manager (or on the enclosure).

4.6 UnixWare and OpenServer

Adding or moving controllers in an existing UnixWare or OpenServer system may cause some device resources to change, which may lead to the operating system being unable to boot. Currently, there is no workaround available in the operating system. Before

installing the operating system, make sure all PCI devices are either enabled or installed.

4.7 Hot-adding Disk Drives

If you hot-add multiple disks simultaneously to a large configuration (100 disk drives or more), it may take an extended amount of time before those disk drives appear in Adaptec Storage Manager.

With Intel Backplanes AXX4DRV3GEXP and AXX6DRV3GEXP, if a drive bay is empty at enclosure power on and then a SATA disk drive is hot-added into the empty bay, the controller does not detect the new disk drive. To work around this issue, remove and reinsert the SATA disk.

4.8 SuperMicro Disk Drive Enclosures

If the controller does not detect disk drives installed in a SuperMicro M28E2 Mobile Rack, use backplane SAS connectors marked with "SAS In" only.

4.9 Using the Controller with a SuperMicro X7DBE Motherboard

The ASR-2405 and ASR-2045 do not support the SuperMicro X7DBE motherboard. Adaptec recommends using the SuperMicro X7DBE+.

4.10 Using the Controller with a Seagate Barracuda 1TB SATA Drive

To ensure reliability when using the ASR-2405 or ASR-2045 with a Seagate Barracuda ES.2 1TB SATA Drive (ST31000340NS), Adaptec recommends using Seagate firmware version SN05 or higher.

4.11 Tape Drive Support (Non-DASD Devices)

- o Tape drives are supported on the ASR-2405 and ASR-2045 controllers, except as noted below.
- o The Sony SDX-570V tape drive is not supported under Red Hat Enterprise Linux 5.

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