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Adaptec RAID Release dated: March 7, 2014
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These release notes contain the following:

1. Description of the Release
2. Supported Controllers
3. Enhancements and Bugfixes


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1. Description of the Release:
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This is the official software release containing the list of software
components listed below:

- Firmware Version 7.4.0 Build 30862

- Windows Driver (32-bit and 64-bit) Version 7.4.0.30850

- Linux Driver Version 1.2.1-40300

- VMware Driver Version 1.2.1.-40301

- maxView Storage Manager (MSM) Version 1.05 Build 20942


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2. Supported Controllers:
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- Adaptec RAID 7805
- Adaptec RAID 7805Q
- Adaptec RAID 78165
- Adaptec RAID 71605E
- Adaptec RAID 71605
- Adaptec RAID 71605Q
- Adaptec RAID 71685
- Adaptec RAID 72405
- Adaptec RAID 8805
- Adaptec RAID 8885
- Adaptec RAID 8885Q
- Adaptec RAID 81605ZQ

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3. Enhancements and Bug Fixes:
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General:
- New product release of the Series 8 Adaptec RAID Controller Family
- Added 4k native sector support
- Added two new controller modes, RAID: Expose RAW mode and RAID: Hide RAW mode
- Added Save Support Archive feature to UEFI
- Drive spinup staggering control added to CTRL-A and ARCCONF
- Added maxCache Plus support for 8Q/8ZQ

Firmware:
- Resolved a rare issue where a controller could become inoperable after an un-safe system shutdown occurs
after a successful firmware flash upgrade is performed
- Resolved an issue that could result in Host IO errors, RAID Volume state changes, non-responsive
systems, and system reboots or resets in rare cases where extremely high IO loads are served almost
entirely from controller cache
- Resolved an issue that could cause a controller BlinkLED during a RAID 5 expansion or migration
- Resolved an issue with Global Hot Spare assignments when 512b and 4k drives are inter-mixed
- Resolved an issue where USB keyboard would cease to function with Series 7 installed
- Silencing the alarm within the UEFI BIOS now functions properly
- Corrected a discrepancy issue with max RAID size when created via UEFI versus CTRL+A
- Improved random write cache algorithms and enhanced disk ramp-up time
- Support for ATA passthrough non-data commands
- Enhanced hot remove/add detection and reporting
- Resolved an issue where maxCache read cache was disabled if no AFM was attached
- Resolved an issue where a drive could be marked offline due to excessive aborted commands
- Resolved an issue where a kernel panic could occur on the controller when large number of logical
devices were configured
- Corrected an issue where a RAID 0 with a failed member would report as "Degraded" in UEFI BIOS, instead
of "Offline"
- Resolved a BSOD issue with a bootable RAW drive when controller switched to auto-volume/RAID mode
- Resolved an issue where a hot added drive enclosure with no drives installed would appear as a drive in
maxView/ARCCONF
- Resolved an issue where ARCCONF was reporting inaccurate latency values
- Fixed several incorrect statistics reported in ARCCONF Stats output
- Resolved an issue where <F6> would not load controller defaults
- Physical devices are now sorted by enclosure in UEFI HII

– Resolved an issue where drives were not detected when multiple SMC enclosures are attached
– Added support for SATA drives in Raw Mode to work in SEC4 and SEC5 security states
– Corrected an issue that would result in an error of "Not Enough Available Space" when attempting to create an array in UEFI HII
– Corrected an issue that would prevent the deletion of a RAID in UEFI HII if created in CTRL-A
– Resolved an issue preventing Windows 2012 from resuming after sleep

Driver:

– All Operating Systems:
– 4k native sector support
– MSIX support
– Performance enhancements
– Support for new Series 8 Family

– Windows changes:
– Resolved an issue that prevented the installation of Windows 8/2012 on an RAW drive when controller set to RAID mode
– Resolved BSOD condition when attempting sleep mode state change in Windows 8

– Linux changes:
– Added DKMS driver support for Fedora kernel versions 3.8 and 3.9.
– Resolved an issue where the displayed logical device name was truncated if greater than 15 characters
– Resolved an issue where there was a discrepancy between the reported size of a logical device at creation versus what is made available to the operating system
– Corrected an issue that would cause a kernel hang during a driver re-load
– Corrected an issue that could cause a kernel panic under VMware (4.1/5.0/5.1/5.5) during a reboot

maxView/ARCCONF:
– maxView architectural changes have been made to significantly improve UI responsiveness
– Email recipient for event notification is now customizable
– Tape driver support has been added to the maxView user interface
– Resolved an issue where the "Cache flush and fetch rate" setting for a maxCache container could not be changed
– Resolved an issue where the drive firmware version was not updating after successfully flashing updated drive firmware in maxView
– Resolved an issue where newly created RAID arrays were not properly updating in VMware GuestOS maxView
– Resolved an issue where the array status would incorrectly display as optimal for a redundant array with a failed member
– Resolved an issue where the Verify option was greyed out after a RAID array was created using build/clear method
– Resolved an issue where logical device resources were not properly displayed during a RAID reconfiguration
– Identified an issue that would prevent a user from logging into maxView after installation on Solaris 11
– Identified an issue preventing an online capacity expansion (OCE) from being performed using ARCCONF
– Resolved an issue where maxView was unable to blink drive LED with Chenbro enclosures
– Resolved an issue that would prevent read and write logical drive cache settings from being changed at the same time
– Resolved an issue where Verify or Verfiy w/ fix operation could not be performed on a maxCache container
– Resolved an issue where a virtual pool creation within maxConf would fail if pool was created in maxView
– Identified and resolved an issue where an array wasn't showing protected by a hotspare after the completion of a copyback
– Resolved an issue where no information was appearing in the "Resources" tab in maxView for a RAID volume

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