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Adaptec RAID Release dated: January 28, 2014
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These release notes contain the following:

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

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 1.04 Build 20859

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

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:

- Resolved an issue preventing maxView login under non-english versions of Windows

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