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Adaptec RAID Release dated: June 12, 2015
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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 7.5.0 Build 32079

- Windows Driver (32-bit and 64-bit) Version 7.5.0.41013

- Linux Driver Version 1.2.1-41018

- VMware Driver Version 1.2.1.-41021

- maxView Storage Manager (MSM) Version 1.08 Build 21375


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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

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3. Enhancements and Bug Fixes:
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General:
- Support for Adaptec ASR-81605Z SAS RAID Controller
- Adaptec Series 6, 7, 8 SAS RAID Controllers refresh, including:
    - Support for new operating systems
    - Updated Linux drivers with improved performance and 'linux dd' support for RHEL and CentOS
    - Enhanced flash backup unit error reporting
    - Improved throughput for RAID 1 sequential reads when read cache is disabled and write cache is enabled
    - History buffer enhancements (call stack/SCSI command descriptor block/debug information in log entries)
- Die temperature warning limit raised on Adaptec Series 7 and Series 8 controllers from 95 deg C to 102 deg C;
  resume limit raised from 90 deg C to 97 deg C (ie, after reaching 97C degrees, the buzzer turns off)

Firmware:
- Resolved Rebuild not starting on global hotspare after drive removed and re-inserted back.
- Resolved Copyback not starting on second logical drive when migration running on First logical drive of non-
overlapped containers.
- Resolved Copyback failure with Maxview.
- Resolved Global Hot Spare Drive copy back incomplete operation when crossing reboot.
- Resolved Rebuild failure on same drive that prevents rebuild starting again.
- Resolved firmware assert on dirty shutdown.
- Resolved issues in `arcconf getconfig 1 al` output when copy back task in running.
- Resolved drive state when unplug new drive while Raid 10 is running copy back.
- Resolved controller not responding after reboot during migration from Raid 6 to Raid 5 by de-selection of one
drive.
- Improved Force Online support.
- Resolved backplane mode consistency issue after firmware upgrade issue.
- Resolved expander hot plug drive detection issue.
- Resolved drive command timeout issue.
- Resolved Raid 5 to Raid 6 migration issue.
- Resolved drive hot plug detection issue.
- Resolved Raid 5 auto-rebuild on hot plug issue.
- Resolved Raid 1 Scrub tasks stuck runtime infinite loop.
- Resolved ARCCONF DDD of physical drive issue that required reboot to RDY the drive.
- Improved backplane LED support.
- Resolved firmware exception with arcconf setconfig command.
- Resolved 72405 direct-attached SSD drive drop issue.
- Resolved firmware hang on drive power-cycle test.
- Resolved SES-2 Device Slot Control Element (Device Off) bit issue.
- Increased Expander model support.

Driver:

- All Operating Systems:
- Enabled MSI support for Series 6.

- Windows changes:

- Resolved an issue under Windows SBS where logical drive deletion and creation events were not created in the windows event log. Instead an event indicating the device has old or out-of-date firmware. These incorrect events could lead to potential performance impact.
- Resolved an issue where a Tape device is not exposed properly to the operating system.
- Corrected an issue where the controller would not come back after ACPI Standby (S3) mode.
- Added some performance enhancements
- Resolved an issue where expander would continue to show up in Windows 2008 after being removed from the controller.
- Resolved an incorrect event generated when expansion is complete.

- Linux/VMware changes:
- Added VMware 6.0 support.
- Added Fedora 21 support.
- Added RHEL 7 support.
- Added Citrix XenServer 6.5 support.
- Added Debian 7.6 support.
- Added Ubuntu 14.04 and 14.10 support.
- Added specific performance enhancments for RHEL/CentOS 6.
- Resolved an issue where SLES 11 SP3 x64 : Error 21 is generated, while installing OS on RAID controller.
- Resolved issues detected with hibernation mode.
- Resolved an issue where log was flooded with mode sense commands in VMware.
- General linux driver performance enhancements.
- Resolved an issue where the controller could not be seen after resuming from a suspend state in Ubuntu.

- FreeBSD changes:
- Added FreeBSD 10 support

- maxCache Plus changes:
- Starting with this release, maxCache Plus is official end of life. There will be no further development or general bug fixes provided.

maxView/ARCCONF:
- Installer enhancement (No command window pop-ups during maxView installation/un-installation).
- Increased SMART support for SAS devices.
- Enhanced maxView SMTP mail client to comply with the high secured SMTP servers (gmail, yahoo, etc...)
- Added support for Ubuntu 14.04
- Added support for RHEL/CentOS 7.1.
- Added Multi-level authentication and access privileges in maxView.
- Added LocalMode (standalone, restricted access from external network) maxView.
- Added Additional detail property in maxView logical property tab explaining the initialization method used to create the logical drive.
- Resolved an issue where arcconf would crash when attempting to savesupportarchive in Citrix Xenserver 6.2.
- Resolved an issue where the physical drive temperature was not displayed properly in arcconf and maxView.
- Resolved an issue where Verify Drives in power management cannot be changed back to Never once another value has been set.
- Resolved an issue where logical device names that contain a dash/hyphen was being truncated under Enterprise View.
- Added support for JBOD to Simple Volume migration in ARCCONF and maxView.
- Added a check condition when ARCCONF PHYERRORLOG command is executed to avoid drives spinning up that are powered down due to power management settings.
- Resolved an incorrect capacity header in the Hot Spare Wizard Summary window.
- Resolved an issue preventing write cache properties to be modified for RAW devices.
- Added ability to change running task priority in maxView for RAID creation.
- Resolved an issue that allowed logical drives undergoing RLM or OCE to be deleted.
- Resolved an issue where tape autoloader wasn't being displayed in maxView at initial log in.
- Resolved an issue where drive firmware upgrade would not complete in maxView GOS.
- Resolved an issue where maxView was displaying an incorrect drive negotiation speed.
- Resolved an issue where the background rebuild task status is empty if a physical drive is shared between overlapping logical drives.
- Resolved an issue where maxView allowed modifications to set properties for failed logical drives.
- Resolved an issue where the size column is empty during a JBOD logical drives creation.
- Resolved an issue where maxView/ARCCONF would fail to properly restore a saved configuration.
- Resolved an issue where the status of a hot removed/plugged physical drive wasn't correctly updating in maxView.
- Added SEEPROM and CPLD version display in ARCCONF getconfig command.
- Resolved an issue that prevented a RAID volume creation from completing when attempting to use two existing configured logical drives as members.
- Resolved an issue where Verify operation was allowed in maxView for logical drives created using Quick Init method.
- Resolved an issue where the incorrect logical device status was being display for multiple drive rebuilding in RAID 6.
- Resolved an issue where no logical drive was displayed in enterprise view when a tape autoloader was attached.
- Resolved an issue where SMART stats were not being displayed for some SAS HDD's.