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Adaptec RAID Release dated: July 28, 2015  
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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: =====

This is the official software release containing the list of software components listed below:

- Firmware Version 7.8.0 Build 32730
- Windows Driver (32-bit and 64-bit) Version 7.5.0.41013
- Linux Driver Version 1.2.1-41024
- VMware Driver Version 1.2.1.-41024
- maxView Storage Manager (MSM) Version 1.08 Build 21375

#### 2. Supported Controllers: =====

- Adaptec RAID 8405
- Adaptec RAID 8805
- Adaptec RAID 8885
- Adaptec RAID 8885Q
- Adaptec RAID 81605Z
- Adaptec RAID 81605ZQ

#### 3. Enhancements and Bug Fixes: =====

##### 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 an issue where Disk Utility in UEFI would incorrectly show entries for removed drives.
- Resolved an issue where the device location in BIOS was incorrectly displayed for attached devices.
- Resolved an issue where physical devices were not being discovered during boot.
- Resolved an issue where the Adaptec by PMC RAID controller would not be discovered during boot on some motherboard vendors. This fix also requires additional flashing of the CPLD (version 10) through the use of ARCCONF command "arccconf cpld 1 flashupdate", where "1" represents the controller number that the CPLD will be upgraded on. Be aware that a system reboot or power off may be required after performing the CPLD update procedure.

##### 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:

- Resolved a performance overload issue when the controller was under heavy I/O load.
- Resolved an issue where all enclosures were being hidden when the command "esxcfg-scsidevs -l" was executed.
- 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:

- Added support for VMware Web Client Plug-In for ESXi 6.0
- 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 arccnf would crash when attempting to savesupportarchive in Citrix XenServer 6.2.
- Resolved an issue where the physical drive temperature was not displayed properly in arccnf 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 EEPROM 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.

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