

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:

- Series 7 Firmware Version 7.5.0 Build 32106
- Series 8 Firmware Version 7.9.0 Build 33023
- Windows Driver (32-bit and 64-bit) Version 7.5.0.41063
- Linux Driver Version 1.2.1-50667
- VMware Driver Version 1.2.1.-50667
- maxView Storage Manager (MSM) Version 2.01 Build 22270

#### 2. Supported Controllers:

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- Microsemi Adaptec RAID 7805
- Microsemi Adaptec RAID 7805Q
- Microsemi Adaptec RAID 78165
- Microsemi Adaptec RAID 71605E
- Microsemi Adaptec RAID 71605
- Microsemi Adaptec RAID 71605Q
- Microsemi Adaptec RAID 71685
- Microsemi Adaptec RAID 72405
- Microsemi Adaptec RAID 8405
- Microsemi Adaptec RAID 8805
- Microsemi Adaptec RAID 8885
- Microsemi Adaptec RAID 8885Q
- Microsemi Adaptec RAID 81605Z
- Microsemi Adaptec RAID 81605ZQ

#### 3. Enhancements and Bug Fixes:

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##### General:

- Microsemi Adaptec Series 7 and 8 SAS RAID Controllers refresh, including:
  - Support for new operating systems
  - Support for SMR HA/DM1 drives on Simple Volumes on Series 8 controllers
  - New power management defaults: IPM disabled for new logical drives
  - Support for latest gcc and Visual Studio versions for SDK
  - Storage management utilities update (see the maxView Storage Manager & ARCCONF CLI Readme)

##### Firmware:

- Series 7:
  - Resolved an issue where the controller could assert during an IO completion on a degraded RAID 5 array.
  - Resolved an issue where direct-attached devices were not detected during system POST when in SGPIO mode.
  - Resolved an issue where outstanding I/O's could not complete during a RAID 5 rebuild.
  - Resolved an issue with the 7805, where hot added devices were not detected if brought online with zero devices attached.
  - Resolved an issue on the 72405, where Micron M600 drives would unexpectedly disappear from the controller.
- Series 8:
  - Resolved an issue where an incorrect cache status was reported for a logical device when the AFM-700 was removed.
  - Added support for detecting SATA and SAS SMR host-managed drives.
  - Resolved an issue where direct-attached physical devices were not being detected during POST in SGPIO mode.
  - Resolved an issue where physical devices were incorrectly displaying 0C temperature when using ARCCONF getinfo.
  - Resolved an issue where system could not boot after an AFM restore.
  - Resolved an IO timeout issue when a physical drive would reset and the Test Unit Ready command would timeout.
  - Resolved an issue where outstanding I/O's could not complete during a RAID 5 rebuild.
  - Resolved an issue where the controller would assert when attempting to delete a logical drive behind an expander in BIOS.
  - Resolved an issue where the controller would assert while re-scanning of direct-attached physical devices.
  - Resolved an issue where the AFM would remain in a "Preparing" state.
  - Resolved an issue where physical drive temperature wasn't displayed for some model drives.
  - Resolved a controller assert issue when source drive would fail while copyback was in progress.
  - Enhanced enclosure LED support.
  - Resolved host operating system abort/command timeout issue in large configurations consisting of 512e drives and a drive hot plug event occurs.
  - Resolved an issue with PBSI where a hotplugged physical device would remain listed when hotplugged.
  - Resolved an issue with PBSI where an incorrect RAID type was displayed for failed extended RAID levels.
  - Resolved an issue with PBSI where a physical drives would show online from BMC after it was removed.
  - Added cache recovered AIF events across dirty shutdowns. These messages are captured in /var/log.
  - Resolved a controller firmware assert issue when running passthrough log page 10 command to expander.
  - Resolved an issue with PBSI where a direct-attached enclosure would report as expander attached.
  - Resolved an issue with the AFM being disabled after the driver is unloaded and reloaded.
  - Resolved an issue where data corruption could occur during enclosure power failure on redundant RAID levels.

##### Driver:

- Windows changes:
  - Added events in the Windows event log for unsafe shutdown and cache loss.
  - Resolved a BSOD issue seen when a Secure Erase was started.

- Linux/VMware changes:
  - Added Support for Fedora 22, Debian 8
  - Resolved an issue where the driver would crash when a Series 7/8 was installed in a system with an HBA-1000 controller and the HBA-1000 would initialize first.
  - Enhanced logging in dmesg logs of driver initialization failure events.
- FreeBSD changes:
  - Added support for FreeBSD 10.2

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