These release notes contain the following:

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

1. Description of the Release:
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:

- 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 81605Z
- Microsemi Adaptec RAID 81605ZQ
- Microsemi Adaptec RAID 81605
- Microsemi Adaptec RAID 8885Q
- Microsemi Adaptec RAID 8885
- Microsemi Adaptec RAID 82405
- Microsemi Adaptec RAID 8805
- Microsemi Adaptec RAID 8885
- Microsemi Adaptec RAID 8885Q

3. Enhancements and Bug Fixes:

General:
- Microsemi Adaptec Series 7 and 8 SAS RAID Controllers refresh, including:
  - Support for new operating systems
  - Support for 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 I/O completion on a degraded RAID 5 array.
  - Resolved an issue where direct-attached devices were not detected during 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.
  - Resolved an issue where direct-attached devices were not being detected during POST in SGPIO mode.
  - Resolved an issue where physical devices were incorrectly displaying OC temperature when using ARCCONF getinfo.
  - Resolved an issue where system could not boot after an AFM restore.
  - Resolved an I/O timeout issue where 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 cache 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 drive 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

© 2016 Microsemi Corporation. All rights reserved. Microsemi and the Microsemi logo are trademarks of Microsemi Corporation. All other trademarks and service marks are the property of their respective owners.

This software is protected under international copyright laws and treaties. It may only be used in accordance with the terms of its accompanying license agreement.

The information in this document is proprietary and confidential to Microsemi Corporation, and for its customers' internal use. In any event, no part of this document may be reproduced or redistributed in any form without the express written consent of Microsemi, One Enterprise, Aliso Viejo, CA 92656.