Product Release Notes

ATTO Technology, Inc.

ExpressSAS 6Gb RAID Release v2.11 – Windows®

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the ExpressSAS 6Gb RAID adapter product v2.11 that was released on October 14, 2011. This information pertains to the Microsoft Windows OS including Windows 7, XP, Vista, Server 2003 and Server 2008 for x86 and x64 platforms.

2. Changes

- *Version 2.11 (Released 10/14/2011)*
  - o **Note:** It is recommended that firmware dated 10/12/2011 be used with this driver release.
  - o **New Features, Enhancements and Changes**
    - Several enhancements have been made throughout the driver to report errors and operate correctly in degraded mode. Enhancements have been made in the APIs for NVRAM, flashing and RAID management.
    - Resolved an issue with command coalescing.

- *Version 2.10 (Released 06/29/2011)*
  - o **Note:** It is recommended that firmware dated 06/22/2011 be used with this driver release.
  - o **New Features, Enhancements and Changes**
    - The driver to firmware communication mechanism has been changed. Driver v2.10, or later, is required to support firmware v2.50, and later. Additionally, the v2.10 driver supports earlier firmware versions from v2.00 up through v2.20.
    - The maximum transfer size value has been lowered to 4MB.

- *Version 2.07 (Released 04/21/2011)*
  - o **Note:** It is recommended that firmware dated 04/18/2011 be used with this driver release.
  - o **New Features, Enhancements and Changes**
    - Added support to the R60F, R608 and R644 for virtual SES

- *Version 2.06 (Released 03/25/2011)*
  - o **Note:** It is recommended that firmware dated 03/25/2011 be utilized with this driver release.
  - o **New Features, Enhancements and Changes**
    - Increased performance for transactional and streaming applications.
    - Improved handling and discovery of drives during system reboot and when drives are pulled or reset.
    - Expanded reporting for disk drive Vendor ID.
    - NCQ is now enabled by default.
    - Resolved various, minor incident fixes to improve overall performance

- *Version 2.05 (Released 02/11/2011)*
  - o **Note:** It is recommended that firmware dated 02/11/2011 be utilized with this driver release.
  - o **New Features, Enhancements and Changes**
    - Performance improvements in IOPs and MB/s applications.
    - CacheAssure performance improvements when in High Protection mode.
    - SAS Multiplexing implemented. This enables the user to achieve performance improvements with 6Gb RAID when using slower 3Gb drives.
    - Improved compatibility between the operating systems range of physical memory and the physical memory of the hardware.
    - Increased the default scatter/gather list size to 512 bytes.

- *Version 2.00 (Released 9/22/2010)*
  - o **Note:** It is recommended that firmware dated 09/17/2010 be utilized with this driver release.
  - o **Note:** "Any upgrade from a previous version to 2.00 for the driver and firmware must be done in a specific order. Version 2.00 firmware must be updated first with a flashbundle using the ATTO Configuration Tool. Once the new firmware is flashed, "DO NOT REBOOT," the 2.00 driver should be loaded. Your system will appear to freeze for up to three minutes while the new driver is loaded. A reboot is required to use the new update."
  - o **New Features, Enhancements and Changes**
    - Initial Release and added support for the R60F.
    - The driver to firmware communication mechanism has been improved. Driver versions 2.00 and later are only supported with version 2.00 and later firmware.

- *Version 1.00 (Released 5/21/2010)*
  - o **Note:** It is recommended that firmware dated 05/20/10 be utilized with this driver release.
  - o **New Features, Enhancements and Changes**
    - Initial release for the R644, R680 and R608.

3. Known Issues/Advisements

- See known firmware issues in the DOS release notes.

4. Affected Products

Product Name	SKU
ExpressSAS R644 RAID Adapter	ESAS-R644-000
ExpressSAS R680 RAID Adapter	ESAS-R680-000
ExpressSAS R608 RAID Adapter	ESAS-R608-000
ExpressSAS R60F RAID Adapter	ESAS-R60F-000
ExpressSAS R644 RAID Adapter with CacheAssure	ESAS-R644-C00
ExpressSAS R680 RAID Adapter with CacheAssure	ESAS-R680-C00
ExpressSAS R608 RAID Adapter with CacheAssure	ESAS-R608-C00
ExpressSAS R60F RAID Adapter with CacheAssure	ESAS-R60F-C00

5. Contacting ATTO Support

ATTO Technology, Inc. is renowned for its technical support services. ATTO's goal is to provide you the quickest response possible for your technical support needs, and is available Monday-Friday, 8:00 AM to 6:00 PM EST (except holidays and plant closings).

ATTO Technical Support can be contacted via phone or email:

- Phone: 716.691.1999 ext. 242
- E-Mail: techsupport@attotech.com