



## ExpressSAS RAID Release v2.00 - Windows

### 1. General Release Information

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These product release notes define the new features, changes, known issues and release details that apply to the ExpressSAS RAID adapter product v2.00 that was released on 1/24/08. This information pertains to the Microsoft Windows OS including Windows 2000, XP, Vista and Server 2003, and Server 2008 for x86 and x64 platforms.

### 2. Changes

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- **Version 2.00 (Released 1/24/2008)**
  - **Note:** It is recommended that firmware dated 01/23/08 be utilized with this driver release.
  - The following apply to changes made from v1.02 to v2.00
  - **New Features**
    - **Performance improvements:** Up to 5x improvement in IOPS performance
    - **Pass-through mode:** Provides support for operation of the RAID adapter with non-block devices such as tape drives and libraries.
    - **Auto rebuild:** Support added to allow users to set the adapter to automatically begin a rebuild of a RAID group when a failed drive is replaced with a new, clean drive.
    - **Staggered drive spin-up:** Support added to set the interval to spin drives up individually ultimately lowering the power consumption on the enclosure power supply.
    - **SES support:** Added support to monitor the health of the storage enclosure and its respective devices.
    - **GUI Improvements:** Added ability to display RAID group properties within the Configuration Tool.
  - **Incident Resolutions/Bug Fixes/Changes**
    - Special I/O, task management, bus reset, and abort processing has been added when flash is being updated to prevent false errors from being reported to the OS and subsequent error recovery (chip resets, etc.)
    - Allocated sense buffers to work around an issue with CA ArcServ 11.5 and possibly other tape software.
    - Work around sync cache and initialization issues in the firmware to prevent data corruption on shutdown/reboot/power management when controlling the boot drive

### 3. Known Issues/Advisements

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- When asynchronous events from the firmware are coalesced into one interrupt, only the first event is reported to the Configuration Tool. This is a limitation of WMI.
- Windows 2000 fails when booting from an R380 adapter. This is a bug in Windows. Contact Customer Support for working around this issue.
- The BlockDevIdentify command does not work correctly for Fujitsu drives. Drive activity light only flashes once when this option is enabled.

- Adapter target device discovery does not work properly if a SATA array has been previously connected (without being power-cycled) to another HBA (ie. a second ATTO HBA or another vendor's).
- Setting the RAIDCommandTimeout parameter to 500 msec or below causes a RAID group to go offline when using SATA drives.
- Booting is only supported in Windows Server 2003, Vista and Server 2008.

#### 4. Affected Products

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Product Name	SKU
ExpressSAS R348 RAID Adapter	ESAS-R348-000
ExpressSAS R380 RAID Adapter	ESAS-R380-000

#### 5. Contacting ATTO Support

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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 8:00 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](mailto:techsupport@attotech.com)