



ATTO Technology, Inc.

Product Release Notes

ATTO Configuration Tool v4.16 – Mac OS® X

1. General Release Information

The ATTO Configuration Tool helps you customize the settings of your ATTO storage Controller to maximize the performance of your storage connection. While the factory settings on your host adapter should provide excellent performance for a wide range of applications, some specialized applications may benefit from modification of the adapter settings to tune the adapter for a specific performance range.

These product release notes define the new features, changes, known issues and release details that apply to the ATTO Configuration Tool v4.16 that was released on August 5, 2014. This information pertains to Mac OS X 10.4.4, and later.

2. Changes

- **Version 4.16 (Released 8/5/14)**
 - The following apply to changes made from v4.15 to v4.16. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added support for RAID 50 and RAID 60
 - Added support for the ThunderLink FC 2082
 - Split the RAID MIB into 4 separate MIBs, with updated RAID 50/60 support
 - GUI will now scroll the RAID tab's Drive Table to the selected drives when groups or members are selected
 - Now append the hostname to the notification email's subject line
 - Collect *atsastop* and *atsasphy* diagnostics for the RAID adapters
 - Log adapter name and PCI info when an adapter driver is loaded
 - Preserve the existing options when changing the multipathing load balancing policy
 - Overwrite all email recipient fields when restoring the notification configuration
 - Improved messaging when an error occurs updating the flash
 - Make the multipath target name in the tree consistent with *atmpinfo*
 - Start a group rebuild prior to prompting to replace members
 - Add a drive counter to the drive drop table in the various RAID wizards
 - A bad hostname to service principal name conversion no longer blocks access to the host via username/password login
- **Version 4.15 (Released 5/22/14)**
 - The following apply to changes made from v4.14 to v4.15. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added support for logging VSA events.
 - We now explicitly check for the 'attobus' service to ensure that multipathing and diagnostic information are collected with MPDirector v1.40, and later.

- **Version 4.14 (Released 5/2/14)**
 - The following apply to changes made from v4.13 to v4.14. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added support for new ATTO products: NT2012, NS2162 and Thunderlink FC 2162.
 - User can now enable or disable Apple multipathing to Thunderlink FC 1082 and 2162.
 - Modified application behavior so that the Multipath Director node is created when a multipathing driver is discovered.
 - CLI tools are now packaged in the diagnostics package.
 - An error message when saving a (multipath) path is no longer clobbered by successfully saving the next path.
 - Modified behavior to allow Apple multipathing to be re-enabled via the GUI, for devices that support the control.
 - The OS X application bundle is digitally signed.
 - Service now displays “replaced” and “failed” device status for firmware that reports it.
 - Added a warning for users to backup RAID groups before converting.
 - Added a notification for scheduled or canceled shutdowns is given on platforms that do not do this natively.
 - Added menu items to rescan multipathing targets and controllers.
 - Added the ability to remember login passwords.
 - Driver logs are collected by the diagnostic scripts on OS X 10.9 and later.
 - Corrected an issue where diagnostics failed on Mac OS X 10.9.2

- **Version 4.13 (Released 1/16/14)**
 - The following apply to changes made from v4.12 to v4.13. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Support for PowerCenter Pro has been added
 - Support for GT and 12Gb HBAs has been added to the diagnostic scripts
 - The packaged CLI tools have been updated to the latest available version
 - RAID group names are handled in a case sensitive manner
 - Resolved an issue where ConfigTool Drive Metrics keep going even if an enclosure is unplugged.
 - Fixed a problem where SNMP MIB information is incorrect for “raidMemberTable”

- **Version 4.12 (Released 10/28/13)**
 - The following apply to changes made from v4.11 to v4.12. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added support for Mac OS X 10.9 (Mavericks)
 - Resolved an issue with link speed and topology are being marked “unknown” when connected to a 16Gb FibreConnect switch
 - Fixed issue where help text hyperlinks were not working
 - Fixed issue where help text does not open browser when clicking on website link

- **Version 4.11 (Released 06/27/13)**
 - The following apply to changes made from v4.10.1 to v4.11. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added a checkbox on the RAID group Properties panel that indicates the RAID group is bootable.
 - Added a toggle control on the Advanced Tab to disable the native multipathing feature.
 - The SES information is now properly displayed for a Fibre Channel enclosure.
 - Resolved a hardware buzzer issue.
 - The system log opens properly so that messages appear in the system log.

- **Version 4.10.1 (Released 04/23/13)**
 - The following apply to changes made from v4.10 to v4.10.1. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Resolved an issue where a security update to Java on Mac OS X platforms caused a malfunction in the notification applet.

- **Version 4.10 (Released 03/12/13)**
 - The following apply to changes made from v4.09 to v4.10. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added support for dual domain devices
 - Added support for SSD RAID groups
 - Added support for maintaining health profile data for drive that use special characters in their serial number or other vital information
 - Added support to collect RAID firmware crash data
 - The SES slot number on the adapter drive table is displayed instead of SAS address
 - The name and type of device are properly indicated in the tree with multipathing
 - Devices are properly removed from the tree upon a cable pull
 - The S.M.A.R.T. data dialog no longer refuses to open with a message about the file being missing if the drive uses all 16 bytes of PRODUCT or all bytes of VENDOR area
 - The drive properties page has been rearranged so that all port addresses can be displayed
 - SAS or SATA is now indicated on the RAID drive properties page
 - An additional SNMP table is now provided to relay dual domain information
 - S.M.A.R.T. attributes are no longer validated, since some drives report values that are out of range which may cause the S.M.A.R.T. data dialog box from being displayed
 - Resolved an issue where the notification applet blinks when muted if the hardware buzzer is disabled
 - Resolved an issue where RAID firmware sends an un-terminated log message, causing a system crash
 - Any number of hotspares can now be created using the hotspare wizard. Also, the block size of the disks are now validated during member replacement and local hotspare creation

- **Version 4.09 (Released 11/29/12)**
 - The following apply to changes made from v4.08 to v4.09. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Devices can be added/removed in a rapid fashion without consequence
 - The adapter buzzer now sounds for non-Thunderbolt adapters when clicking the notification test button

- **Version 4.08 (Released 11/08/12)**
 - The following apply to changes made from v4.07 to v4.08. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added process power management events from the ESASRAID driver
 - Activated the on-board buzzer on the adapter that triggered a buzzer event only
 - Added detect mute button events from ThunderStream products
 - Resolved a timing related crash on shutdown if SNMP is enabled
 - Resolved a crash when committing the Notifications Plane contents with an email password
 - Resolved conflict with StorNext

- Made changes to the operating system display for Mac OS X 10.8
- **Version 4.07 (Released 09/28/12)**
 - The following apply to changes made from v4.05 to v4.07. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Removed the discovery mode option in the NVRAM panel for a 16Gb Celerity FC adapter.
- **Version 4.05 (Released 08/13/12)**
 - The following apply to changes made from v4.03v2 to v4.05. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Added support for ATTO desklink devices.
- **Version 4.03v2 (Released 07/25/12)**
 - The following apply to changes made from v4.03 to v4.03v2. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Mac OS X Mountain Lion (10.8) Support.
- **Version 4.03 (Released 04/23/12)**
 - The following apply to changes made from v4.02 to v4.03. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Thunderbolt support has been added for the Apple OS X platform, for all compatible devices.
 - The “Command-click” operation on Apple OS X platforms will now select RAID members.
 - Multiple RAID Management menus do not appear when a Thunderbolt cable is unplugged, for Apple OS X platforms.
 - The multipathing adapters are now initialized after a thunderbolt cable is inserted.
 - The installer now makes the application available to all users.
 - Several freezes in the system service have been resolved.
 - Several crashes related to the auto discovery system were resolved.
- **Version 4.02 (Released 02/14/12)**
 - The following apply to changes made from v4.01 to v4.02. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - SNMP support has been added.
 - Help menu now features a ‘Run Diagnostics’ option for troubleshooting purposes, which displaces the former option to save logs under the Notifications panel. RAID logging has also been improved.
 - Support for FastFrame CT and NT adapter series has been added.
 - Gen 3 PCIe transfer rate support has been added.
 - Hot spares can now be assignable to RAID groups via CLI.
 - Support for sounding the buzzer on buzzer-equipped hardware, controllable by the Notification Application.
 - Performance, stability and logging improvements.

- **Version 4.01 (Released 09/06/11)**
 - The following apply to changes made from v4.0 to v4.01. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - The integrated help text features new icons for the buttons the user can click as well as manipulate in the table of contents.
 - This release offers improved support and functionality with 3Gb RAID adapters.
 - Rare instances of system hangs have been resolved.

- **Version 4.0 (Released 08/17/11)**
 - The following apply to changes made from v3.38 to v4.0. You must use the latest product drivers for your specific adapter whenever updating the ATTO Configuration Tool version. The latest driver sets can be accessed via the ATTO website.
 - **New Features, Enhancements and Changes**
 - Support for ExpressSAS H6F0GT.
 - This release represents a major update to the GUI interface and capabilities. Whereas previous versions contained a single application, this release provides a GUI application and system service. Refer to the product manual for more information on the setup and operation of these components.
 - This release offers the ability to set-up, manage and optimize storage connected locally and remotely to ATTO storage controllers. This includes the ability to remotely access and update NVRAM settings, updating system firmware and drivers, as well as retrieving system event logs.
 - Only one instance of the ConfigTool can be installed on a host at any one time (i.e. either v3.38 **or** v4.0, but not both).
 - This version does not have SNMP enabled. Use an earlier version of the ATTO ConfigTool if you require SNMP.

3. Known Issues/Advisements

- The Notifications tab can be viewed and changed without logging into a host.
- The audible and visual notifications only work with the system service on the local machine (not remotely).
- Drives may not disappear in the ConfigTool if a cable is pulled with no IO.
- The ConfigTool client doesn't detect when it has been disconnected from a daemon.
- Manually entered IP addresses or hostnames are not saved.
- The maximum transfer size control is no longer available in 4.xx.
- The ConfigTool installer may flag the installation with an error but no error occurred.
- The ConfigTool icons may be blurry and pixelated on OS X platforms.
- No warning message is displayed after resuming from "sleep" or "hibernate" to inform a user about the time required for the 3808 to boot.
- User must terminate the ConfigTool to disconnect from a remotely connected host.
- Cannot right-click on the system tray icon on OS X
- The ConfigTool shows an incorrect date for the flash version
- The ConfigTool may hang when running the diagnostics package when an R680 is in a bad state
- The ConfigTool hangs at "Connecting" message box when MPD has missing LUNs
- ConfigTool accepts invalid or missing credentials during a 5-minute window after installation on OS X 10.9.2
- The ConfigTool system service may hang when the system is shut down on Apple OS X platforms v10.5.8 and lesser because of a known bug in an Apple provided library.

4. Affected Products

ATTO ConfigTool for the following ATTO products:

- CelerityFC
- ExpressSAS H6xx
- ExpressSAS H12xx
- ExpressSAS R6xx
- ThunderStream SC 3808D/E
- Thunderlink FC 1082
- Thunderlink NS 1101/2102
- Thunderlink NT 1102/2102

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).

ATTO Technical Support can be contacted via phone or email:

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