ATTO Technology, Inc.

Product Release Notes

ATTO Configuration Tool v4.12 - Linux

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 v4.11 that was released on October 28, 2013. This information pertains to Red Hat Enterprise Linux versions 4, 5, 6; SUSE Linux Enterprise Server versions 10 and 11; Cent OS versions 5, 6; Ubuntu 12.x and 13.x.

2. Changes

- *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 a checkbox on the RAID group Properties panel that indicates the RAID group is bootable.
    - The diagnostics package has been updated to collect system-wide information
    - Resolved an installer issue in Ubuntu 12.x
    - 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 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.
    - User session changes are now properly detected.
    - Right-click support on the system tray icon is enabled for Gnome 3 desktops.
    - Resolved a hardware buzzer issue.
    - Resolved an OS name display issue.
    - The system log opens properly so that messages appear in the system log.

- *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.
- The installer log is now located in "/var/attotech/log" instead of the installation directory. Additionally, the installer now installs a system menu item for the application.
- Resolved an issue where the ConfigTool daemon hangs on shutdown.
- Debugging messages from the auto discovery responder service are no longer submitted to the system log.
- 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**
    - Celerity 16Gb support to the Windows and Linux diagnostic scripts.
    - 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.

- *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)***
  - o The following apply to changes made from v4.03 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.
  - o **New Features, Enhancements and Changes**
    - ▪ Added support for OEM branding.
    - ▪ Added support for time-stamped log messages from a RAID device.

- ***Version 4.03 (Released 04/23/12)***
  - o 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.
  - o **New Features, Enhancements and Changes**
    - ▪ The name service switch component of the auto discovery mechanism will not break StorNext installations on the Linux platform.
    - ▪ The installer will now install the correct system service architecture on Mandriva Linux platforms.
    - ▪ The installer now makes the application available to all users.
    - ▪ Several freezes in the system service have been resolved.
    - ▪ On the Linux platform, resolved device events that seemed to "stop" after a period of time.
    - ▪ Several crashes related to the auto discovery system were resolved.

- ***Version 4.02 (Released 02/14/12)***
  - o 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.
  - o **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)***
  - o 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.
  - o **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)***
  - o 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.
  - o **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 ConfigTool may display a warning message if a CacheAssure module is installed and in high protection mode.
- When running the installer SELinux enabled, a notification will appear about an AVC issue.
- The Notifications tab can be viewed and changed without logging into a host. Additionally, the Notifications tab doesn't detect if a connected host has disconnected, and thus the information displayed may become stale.
- 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.
- If many notifications pop-up, the Notification Application may stop responding.
- The ConfigTool notification application icon disappears after reboot on Linux.
- Multipathing visual failover/failback indicators are different on different OS's.
- The maximum transfer size control is no longer available in 4.xx.
- The expander version for the H30F and R30F are not supported.
- The ConfigTool installer may flag the installation with an error but no error occurred.
- The one-button diagnostic feature may not work with Celerity FC-4X.

4. Affected Products

ATTO ConfigTool for the following ATTO products:
ATTO ExpressSAS H6F0GT0, H6F0, H60F, H680, H608, H644, H30F, H380, H308
ATTO ExpressSAS RAID Adapters R30F, R380, R348, R60F, R680, R608, R644
ATTO Celerity FC-162E, FC161, FC-84EN, FC-82EN, FC-81EN, FC-44ES, FC-42ES, FC-41ES, FC-42XS, FC-41XS
ATTO ExpressPCI UL5D Low-Profile, ExpressPCI UL5D, ExpressPCI UL4D
ATTO FastFrame Network Adapters CS14, CS12, CS11, NS14, NS12, NS11, NT12, NT11
ATTO ThunderStream SC 3808
ATTO ThunderLink FC1082, SH1068, NT1102, NS1101

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