



ATTO Technology, Inc.

Product Release Notes

FastStream SC 5000/7000 Series Firmware Release v2.80

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the FastStream SC product line, version 2.80, which was released on 04/23/2008.

2. Changes

- **Version 2.80 (Released 04/22/08)**
 - **This version supports all FastStream Storage Controller products**
 - **New Features**
 - The FastStream Graphical User Interface has been renamed from ExpressNAV 2.0 to the ExpressNAV Storage Manager. This better expresses the functionality provided by ExpressNAV to setup, manage and maintain storage with the FastStream appliance.
 - Provided IOPS improvements to boost low block size performance for IT, Database and Audio applications.
 - Added Hot Swap with Autorebuild. Now in the event of a disk failure, users may replace a failed disk while the system is active and have the replaced drive automatically start a rebuild on that disk to repair the RAID group
 - Improved the ExpressNAV disk scan method, users are now able to view an updated drive list without having to perform a system scan.
 - Several fine tuning parameters have been added to ExpressNAV to give users additional options when setting up RAID groups:
 - Added additional interleave setting options to the ExpressNAV Storage Manager custom setup screen. Available settings are now 16/32/64/128/256/512/1024/2048 expressed in 512-byte blocks.
 - A manual mapping option has been added to custom setup
 - The SpeedRead™ setting and help text have been added as a custom RAID group setup option.
 - Added the ability to update firmware from the ExpressNAV Storage Manager GUI so users can update the appliance firmware without the need for Telnet, Zmodem or FTP.
 - Added bootdelay CLI command which sets up a delay period after the FastStream boots up to allow hosts to detect discovered disk targets.
 - For OEM customers using the 7500E embedded product, the option is now available to use only the external SAS ports, internal SAS ports or a combination of both. This allows customers to use the product with external storage, internal storage or a mix of either.
 - Updated to latest SAS firmware from Intel
 - Updated to latest ATTO Celerity Fibre Channel firmware

- **Incident Resolutions/Bug Fixes/Changes**
 - Updated the AutoResume Rebuild command default to be enabled so interrupted rebuilds will automatically resume on startup
 - Added ability to change FCMultiNode in ExpressNAV Storage Manager, previously this was only able to be changed from the CLI screen
 - Updated the N-way mirroring feature in ExpressNAV so it is more user friendly, now users can make multiple mirrors of a RAID1 group with fewer mouse clicks from the Manage page.
 - The system date is now correct when using the Firefox web-browser.
 - Added ability to allow FastStream to identify itself when finding devices.

- **Version 2.71**
 - ***This version of firmware supports only the FastStream SC 5000 series***
 - **New Features**
 - Added RAID 4 Functionality which utilizes a single parity drive
 - Added support for creating partitions greater than 2TB for DVRAID™
 - Added an option for audio setup to the SC 5700 (SC 5300 already had this) – this one-button setup supports 3 sessions of DigiDesign ProTools HD
 - Ability to name the Appliance from the GUI, the appliance name will display under the “FastStream” banner on the top of the GUI page. This will allow customers to individually name the FastStream to help identify which product they may be logged into to help avoid changing settings on the wrong product.
 - Addition of a read-only account for monitoring the FastStream appliance
 - Added option for DVRAID to support 8 or 16 drive configurations
 - QuickNAV functionality allows users to scan for other ATTO appliances from the ExpressNAV GUI. By selecting another appliance in ExpressNAV the GUI for that appliance will be brought up in a web-browser window
 - OEM Customization of the GUI now available (able to change banner, logos and text)
 - Now able to identify a FastStream appliance by blinking the alert LED
 - DHCP Setup has been added to the GUI (Enable/disable)
 - Ability to set static IP Address from System Config GUI page
 - Email server now accepts a server host name or a server IP address
 - The ExpressNAV GUI was qualified with Internet Explorer v7
 - Updated Windows drivers to support Windows Vista (32 and 64 bit)
 - Added informational email alerts
 - Added email alerts for drive failures to the SC 5700 (SC 5300 already had this)
 - Improved performance for the One-Click IT and Database setups
 - **Incident Resolutions/Bug Fixes/Changes**
 - Fixed issues with reporting the Drive Performance and Health metrics
 - Fixed GUI display error on Initialize and Verify page, drives would not be displayed as de-selected after system scan
 - Modified the CLI command so time may be set while SNTP enabled
 - Fixed an error that prevented deleting a RAID Group in the middle of a rebuild
 - Changed TCP source port to prevent occasional problems when trying to FTP new appliance firmware through a firewall
 - Fixed issues with exiting a telnet session using “Exit” multiple times
 - Fixed interoperability issue with Xyratex array (SC 5700)
 - Fixed issues with using maximum length parameters when setting up email notification (GUI and CLI)

- **Version 1.00 (7000 Series only)**
 - ***This is the current version of firmware created for the initial release of the FastStream SC 7000 Series, it is recommended that you upgrade to the current v2.80 version of code***
 - *This code was based on 5000 series version 2.40*

3. Known Issues/Advisements

- When replacing the SAS cable on the 7500 model, drives may not show up in the ExpressNAV Storage Manager. If this happens, make sure the drives are idle, disconnect then reconnect the SAS cable and the drives will be available.
- Some GUI buttons may not be formatted correctly in the 3.0 version of Safari for OS X; earlier versions of this browser have no issues.
- When using 1-Gb Fibre Channel drives, auto negotiation may not work properly, Setting the FCDataRate to 1-Gb will allow you to connect the FastStream 1-Gb Fibre Channel drives.
- When using FastStream with an HBA based on the 2-Gb Qlogic ISP23xx chip autonegotiation may not detect this HBA. Setting the FCDataRate to 2-Gb will allow you to connect the FastStream to an ISP23xx based HBA.
- The Reset button on the SC 5300 is not operational; to reset the 5300 appliance turn the power switch off and back on, make sure all disk activity has ceased before cycling power on the FastStream.
- RAID groups may fault/disappear and become online when you pull a drive. This only affects certain enclosures, a drive pull may hang the bus and the drives will not be able to be seen by the SC 5700 or SC 7700 appliances. If this happens cycle power on the enclosure or replace the drive to correct the problem.
- When using online capacity expansion, individual drives on the Health and Status Monitor page will show up as CONVRT 0% instead of online; drives and RAID groups will be online and accessible. A reboot of the FastStream will clear this status and set it to the correct status of online.

4. Affected Products

Product Name	SKU
FastStream SC 5300	FSSC-5300-0R0
FastStream SC 5700	FSSC-5700-0R0
FastStream SC 7500	FSSC-7500-D00
FastStream SC 7500E	FSSC-7500-E00
FastStream SC 7700	FSSC-7700-D00

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 8:00 PM EST (except holidays and plant closings).

ATTO Technical Support can be contacted via phone or email:

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