ATTO Technology, Inc.

Product Release Notes

XstreamCORE FC 7600 Firmware Release v3.50

1. General Release Information

These product release notes define the features, known issues and release details that apply to the XstreamCORE FC 7600 Storage Controller version 3.50 firmware that released on August 2, 2019.

2. Introduction

- ***Version 3.50 (Released 8/2/2019)***
  - **Release details**
    - This release includes a change to the release ZBD name which is longer than the previously standard filename. As such, the XstreamVIEW firmware update GUI page releases prior to 3.50 will not accept the 3.50 release's filename length. The 3.50 release should be uploaded to an XstreamCORE FC 7000 via FTP (which does not have the same filename length restriction).
    - Added "Fibre Channel LUN Naming" capability.
    - Improved SCSI command handling, particularly for overrun/underrun, deferred, and large sense data payloads.
    - Improved streaming device (i.e. tape) handling.
    - Shortened drive discovery time for systems with a large number of drives.
    - Improved error handling in Event Log and CLI Log infrastructure.
    - Reduced exposure to certain DDoS scenarios.
    - Removed "CONTROL MODE PAGE" override by controller for attached target devices.
    - Improved UVDA Core Dump information retrieval.
    - Improved FPGA exception handling.
    - Boot Block updates are now handled via standard ZBD firmware uploads.
    - Fibre Channel firmware has been updated, 11.4.337.0 for G5, and 12.2.302.0 for G6.
    - Improved handling of device loss during discovery.
    - Improved XstreamVIEW Mapping page and CLI RouteDisplay command to distinguish between "Offline" and "Online" devices.
    - Added CLI EthPortList to show Ethernet port status.
    - Added CLI FCCorePresent to show whether an FC FW core exists.
    - General platform UVDA, Fibre Channel, and SAS source code refresh.

- ***Version 3.00***
  - **Initial Release of the 32Gb Fibre Channel to 12Gb SAS XstreamCORE FC 7600**
    - ***xCORE™ Data Acceleration*** *- features multiple parallel I/O acceleration engines, end to end I/O processing, hardware buffer allocation management and real-time performance and latency analytics*
    - ***eCORE™ Control Engine*** *- adds common, open storage services, industry standard APIs, handles reservations, storage routing and host and LUN mapping functions*
    - *Supports SAS 3Gb, 6Gb and 12Gb disk storage devices*
    - *Supports SATA 3Gb and 6Gb disk storage devices*

- *Supports connection to 8Gb,16Gb and 32Gb Fibre Channel*
- *Drive Map Director™ feature provides predictive enclosure-aware mapping scheme*
- *XstreamVIEW™ System Manager GUI, CLI, FTP and Telnet access*
- *Available FC and SAS port statistics*
- *Available in-band access*
- *SNMP Support*
- *SMTP Support*

3. Known Issues/Advisements

- The XstreamCORE FC 7000 3.50 release includes a change to the release ZBD name which is longer than the previously standard filename. As such, the XstreamVIEW firmware update GUI page releases prior to 3.50 will not accept the 3.50 release's filename length. The 3.50 release should be uploaded to an XstreamCORE FC 7000 via FTP (which does not have the same filename length restriction).
- IR18684 – Pulling the SAS cables from the XstreamCORE or connected storage during operation may result in a controller crash requiring reboot.
- In VMware environments, at least one drive must be present in the storage between the lun range of 0 – 7 (this can be confirmed by using RouteDisplay, visual confirmation of storage, or by using the IdentifyLun command). Otherwise, VMware will not continue its discovery scan to luns that are mapped above lun 7 and will not detect any drives. (This is a VMware issue and not an ATTO controller issue).
- Note that when you plug in a power cable to one of the power supplies on the 7550, power is immediately enabled on the controller, there is no power switch.
- The Drive Map Director™ feature requires that SAS enclosures support the SMP protocol, for specific information contact ATTO tech support, if enclosures do not support the SMP protocol then mapping occurs via the Automap feature.
- Controller crashes may occur when SNMP is enabled, when 256 or more connected drives or state device maps are connected/created (Maps for devices no longer connected to system) or when performing SAS cable pulls.

4. Affected Products

Product Name	SKU
XstreamCORE FC 7600	XCFC-7600-002

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:

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