Product Release Notes

ATTO Technology, Inc.

FibreBridge 6500 Firmware Release v1.14

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the FibreBridge 6500 version 1.14 that was released on 10/21/2013.

2. Changes

- **Version 1.14 (Released 10/21/13)**

  o **Incident Resolutions, Enhancements and Feature improvements**
    - *Updated READ BUFFER command set, added 0Bh which returns the content of the INFO CLI command*
    - *Added ability to pass through mapped media changer to appear as tape device in OS*
    - *Improved Fibre Channel connectivity*

- **Version 1.10 (Released 09/12/13)**

  o **Incident Resolutions, Enhancements and Feature improvements**
    - *Added PTP compatibility with Gen 5 Fibre Channel Host Bus Adapters (16Gb)*
    - *Added OEM configurable option to perform a LUN INVENTORY CHANGE when a device is removed and reinserted to improve integration for OEM customers.*
    - *Fixed the state when devices are disconnected on the SAS end and now report the correct CDB when device is not present*
    - *Improved the Mapping pages in the ExpressNAV™ System Manager GUI*
    - *Updated SNMP MIB to include new status for power supplies*
    - *Added custom capability to report a LUN INVENTORY CHANGE when a device is removed and reinserted into the same slot of an attached storage enclosure.*

  o **New Product: FibreBridge 6500D Specifics**
    - *New SKU: FCBR-6500-DPS*
    - *New rackmount enclosure which supports Dual Power Supplies*
    - *Power Supply Monitoring is available through the event log, SNMP, ExpressNAV System Manager GUI, Email Alerts and new front panel mounted LEDs.*

- **Version 1.06 (Released 02/28/13)**

  o **Incident Resolutions, Enhancements and Feature improvements**
    - *Improved operation when connecting pass-through devices such as tape libraries or autoloaders which have robotic media changer devices. The media changer is visible and will be reported as a media changer instead of a tape drive.*

    - *Added instructions to the manual and quickstart guide for using the 6500 with media changer devices as default settings will not map the media changer.*

- ***Version 1.05 (Released 03/01/12)***

    - **Release Features**
        - *Supports LTO SAS tape drives including SpeedWrite, TapeDriveCaching, VirtualDriveResponse and TapePerfOptimize settings*
        - *Increased Fibre Channel port resource allocation to support 4096 outstanding commands*
        - *Added facility to have all back-end devices automatically mapped when the bridge boots*
        - *Added delay into Automap to improve discovery*
        - *Improved thermal error handling to disable CLI commands in over temperature conditions*
        - *Increased user login name to 128 characters*
        - *Improved ExpressNAV interoperability with version 10 and higher Mozilla Firefox web browser*
        - *Added error messages in the event of a Zmodem upload failure*
        - *Slot number now uses Connector Element Index if the Slot Number field is not returned by the enclosure*

- ***Version 1.00 (Released 12/08/10)***

    - **Initial Release Features**
        - *Supports SAS and SATA 1.5Gb / 3Gb and 6Gb disk storage devices*
        - *Drive Map Director™ feature provides predictive enclosure-aware mapping scheme*
        - *ExpressNAV™ System Manager GUI, CLI, FTP and Telnet access*
        - *Available FC and SAS port statistics*
        - *Support for up to 250 disk drives*
        - *Available in-band access*
        - *SNMP Support*
        - *SMTP Support*

    - **FibreBridge 6500 Specifics**
        - *New platform which bridges 2x 8Gb Fibre Channel to 2x (4 lane) 6Gb SAS*
        - *Flash ROM supports Dual Boot Images for greater reliability during firmware updates*
        - *Large Flash Event Log stored in NAND memory for field diagnostics*
        - *Fibre Channel SFP+ modules included with product*
        - *SAS QSFP modules are not included with product*
        - *Dual 100/1000 Ethernet management ports*
        - *Worldwide certifications*
        - *Battery-free design*

3. Known Issues/Advisements

- FTP fails on bind. This only occurs when the connection is closed & reopened in less than 8 seconds.
- Incorrect error message for fcsfpinfo command as ReadOnly account.
- Advanced Page never refreshes if firmwarerestart command is issued.
- The 6500 is not currently interoperable with Xyratex SAS enclosures that have a Xyratex SAS-SATA bridge installed, this will be addressed in a future release.
- The 6500 is not currently interoperable with Marvell expanders, this will be addressed in a future firmware release.
- 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.

4. Affected Products

Product Name	SKU
FibreBridge 6500D	FCBR-6500-DPS
FibreBridge 6500S	FCBR-6500-D00
FibreBridge 6500E	FCBR-6500-E00

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