ATTO Technology, Inc.

Product Release Notes

Celerity 8Gb & 16Gb Fibre Channel Multipath Director Release v1.35MP - Windows

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the Celerity Fibre Channel adapter product v1.35MP that was released on 6/27/2013. This information pertains to the Windows 8, 7, Vista, XP, Server 2012, 2008, 2008 R2 and 2003 OS. ***Note*:** It is recommended that latest firmware available on ATTO website be utilized with this driver release.

2. Changes

- ***Version 1.35MP (Released 6/27/2013)***
  - **New Features/Enhancements**
    - Increased the timeout error threshold for some storage devices during discovery.

- ***Version 1.34MP (Released 12/18/2012)***
  - **New Features/Enhancements**
    - Corrected target identifier determination for some storage.
    - Disabled multipathing for some arrays that do not report proper device identification.
    - Corrected Test Unit Ready polling to function when only one LUN is present for a device.

- ***Version 1.33MP (Released 11/07/2012)***
  - **New Features/Enhancements**
    - The included CLI tools have been updated to scan for all LUNs.

- ***Version 1.32MP (Released 10/26/2012)***
  - **New Features/Enhancements**
    - Corrected an issue that could cause paths to not be rediscovered during the link down timeout if a bus scan failed when it went down.

- ***Version 1.31MP (Released 10/01/2012)***
  - **New Features/Enhancements**
    - Fixed an issue that could cause a blue screen during path scanning and activation.

- ***Version 1.30MP (Released 09/17/2012)***
  - **New Features/Enhancements**
    - Added atmpcfg to the installation.
    - When a device returns sense data of 06/29/00 (Power On/Reset), all paths to the device are rescanned for changes.
    - If the vendor ID, product ID, or SCSI device type in the Inquiry data for a device changes, the device is destroyed and recreated so the OS is updated.
    - Resolved issues with multipathed devices being added and removed properly when Multipath Director is enabled and disabled in Device Manager.
    - Inquiry data for multipathed devices is modified to clear the TPGS field.
    - Capturing time for statistics is more accurate and efficient.
    - Corrected a timing window in which a saved configuration may fail to load if loaded after multipathed devices are reported to the OS.

        - Setting a saved configuration for a path or a device that is no longer configurable is silently ignored.
        - Added support for Celerity 16Gb adapters.
        - Added support for performing explicit failover and failback for active non-optimized paths to some arrays.
        - Added support for disabling failback via atmpcfg.
        - Corrected an issue so failover/failback would happen immediately after a link event.
        - Polling using Test Unit Ready commands has been enhanced to better detect asymmetric access state changes automatically.
        - Corrected issues in path management processing to properly handle paths that have failback scheduled.
        - Improved command error processing during path scanning and activation.
        - Corrected issues in path activation that could cause I/O to be suspended even though a path is available for I/O.

- ***Version 1.21MP (Released 02/17/2011)***
    - **New Features/Enhancements**
        - Corrected an issue that could exhaust system memory when a disk LUN is removed and replaced with LUNZ.

- ***Version 1.20MP (Released 01/19/2011)***
    - **New Features/Enhancements**
        - The device IDs for devices created by MultiPath Director have been changed to correspond to those created by Windows. Therefore, device drivers will still load when MultiPath Director is installed.
        - Resolved an issue that occurred if debug logging was enabled and an unsupported IOCTL was received by MultiPath Director.
        - Target based identifiers in Inquiry VPD page 0x83 are given priority over LUN based identifiers in determining how to multipath devices.
        - Devices that report an unknown device type in Inquiry data are ignored.
        - Internal commands are retried during asymmetric access state transitions.

- ***Version 1.10MP (Released 10/15/2010)***
    - **New Features/Enhancements**
        - Added driver readme to the self-extracting executable package.
        - Installed new CLI tools with the driver - atmpinfo and atmpcfg - to display information and configure settings respectively for devices controlled by MultiPath Director.
        - Feature added so the driver detects LUN inventory changes by polling one logical unit on each device present every three seconds.
        - Corrected an issue with I/Os waiting to be retried.
        - Improved the discovery of multiple paths.
        - Added debugging and event logging support controlled by a new registry setting EventLogMask. A new CLI tool, atbdlog.exe, is installed with the driver to retrieve the log. No events are logged to the Windows system event log.
        - Added support for the ‘access’ LUN of some storage arrays.
        - Enhanced power management processing.

- ***Version 1.00MP (Released 10/28/2010)***
    - **New Features/Enhancements**
        - Initial release of Windows drivers for the Celerity 8Gb FC adapters
    - **Supported OS**
        - Windows XP (x86, x64)
        - Windows Vista (x86, x64)
        - Windows Server 2003 (x86, x64)
        - Windows Server 2008 (x86, x64)

3. Known Issues/Advisements

- When upgrading from versions prior to version 1.20, saved configurations may be lost. The ATTO Configuration Tool will display the device twice when this occurs. Delete and resave all configurations to correct the problem.

Affected Products

Product Name	SKU
Celerity FC 164E	CTFC-164E-000
Celerity FC 162E	CTFC-162E-000
Celerity FC 161E	CTFC-161E-000
Celerity FC 81EN	CTFC-81EN-000
Celerity FC 82EN	CTFC-82EN-000
Celerity FC 84EN	CTFC-84EN-000

4. 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 and plant closings).

ATTO Technical Support can be contacted via phone or email:

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