



ATTO Technology, Inc.

Product Release Notes

Celerity 16Gb/32Gb Fibre Channel Multipath Director™ Release V2.00MP – Mac OS® X

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the Celerity Gen 5 16Gb Fibre Channel adapter product and Gen 6 16Gb/32Gb Fibre Channel adapter product v2.00MP that was released on 06/30/2016. This information pertains to the Mac OSX. **Note:** It is recommended that latest firmware available on ATTO website be utilized with this driver release.

2. Changes

- **Version 2.00MP (Released 06/30/2016)**

- **New Features/Enhancement**

- Added support for Celerity Gen 6 16Gb/32Gb FC adapters.
- Added support for LU-based multipathing.
- Added support for configuring an alias.
- Addressed a potential for failover to fail when large numbers of LUNs are present.
- Addressed issues that could cause excessive completion times for failover or discovery.

- **Supported OS**

- Mac OS X 10.7
- Mac OS X 10.8
- Mac OS X 10.9
- Mac OS X 10.10
- Mac OS X 10.11

- **Version 1.45MP (Released 01/21/2016)**

- **New Features/Enhancement**

- Resolved a connection issue with previous versions of EMC storage

- **Supported OS**

- Mac OS X 10.7
- Mac OS X 10.8
- Mac OS X 10.9
- Mac OS X 10.10
- Mac OS X 10.11

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- **Version 1.40MP (Released 8/06/2015)**

- **New Features/Enhancement**

- Added support for 10.11
- Improved system resource utilization when using event logging services
- Implemented T10-PI management improvements
- Fixed a max transfer size processing issue
- Addressed a SCSI abort issue
- Added support for Dot Hill arrays

- **Supported OS**

- Mac OS X 10.6
- Mac OS X 10.7

- Mac OS X 10.8
 - Mac OS X 10.9
 - Mac OS X 10.10
 - Mac OS X 10.11
- **Version 1.35 (Released 3/136/2015)**
 - **Note:** It is recommended that firmware dated 03/16/2015 be utilized with this driver release.
 - The following apply to driver v1.35
 - **New Features/Enhancements**
 - ALUA devices are now allowed to change the path mode from disabled to the default
 - For Thunderbolt topologies, addressed an issue to properly manage multipathing configurations across Thunderbolt cable pulls.
 - Addressed an event logging issue.
 - Active/non-optimized paths are activated in the same manner as standby path by default.
 - Corrected identifier determination for some storage. As a result, previously saved configuration will no longer be in effect for some arrays. The configuration must be resaved after upgrading.
 - Addressed a timing issue when mounting volumes.
 - Fixed an issue of seeing LUNs in a direct attached environment.
- **Version 1.31 (Released 1/27/2015)**
 - **Note:** It is recommended that firmware dated 08/14/2014 be utilized with this driver release.
 - The following apply to driver v1.31
 - **New Features/Enhancements**
 - Fixed a resource leak issue.
 - Addressed an I/O response underrun
- **Version 1.30 (Released 10/30/2014)**
 - **Note:** It is recommended that the latest firmware dated 08/14/2014 be utilized with this driver release.
 - The following apply to driver v1.30
 - **New Features/Enhancements**
 - Added support for Mac OS X 10.10
 - Addressed a firmware issue causing an error when querying a switch
 - Corrected an issue where HBAs failed to properly recover from a controller reset.
- **Version 1.25MP (Released 9/25/2014)**
 - **New Features/Enhancements**
 - Enhanced diagnostic capabilities with improved event logging
 - Improved CLI management capabilities
 - Added support for atreset
 - Added support for device display in atinfo
 - Addressed a potential kernel panic when drivers run out of IO resources
 - Addressed a potential kernel panic when a FC ThunderLink is present
 - Addressed an issue where IO to a LUN could be stalled
 - Set default so that active/non-optimized paths are activated for IO in the same manner as standby paths
 - Corrected an issue where a cable pull could result in I/O failure
- **Version 1.20MP (Released 3/24/2014)**
 - **Note:** It is recommended that firmware dated 11/08/2012 be utilized with this driver release.
 - **New Features/Enhancements**
 - Expanded diagnostic output tools.
 - Feature added to allow user driven rescanning of all paths to devices.
 - Feature added allowing a path to be a member of two path sets at one time for devices that change identifiers in VPD. Supported with Config Tool 4.14 and later.
 - Corrected a kernel panic that may occur when unloading a driver.
 - Resolved issues with execution throttle.

- **Version 1.15MP (Released 2/06/2014)**
 - **Note:** It is recommended that firmware dated 11/08/2012 be utilized with this driver release.
 - **New Features/Enhancements**
 - Corrected an issue with path discovery for paths that are deactivated immediately after being found.
 - Addressed an issue with deactivating paths that are disabled due to I/O errors.
 - Fixed an issue where discovery or failover of a path could be delayed by a transitioning asymmetric access state for a port group that did not apply to the path.
 - Resolved an issue where simultaneously reporting device changes on multiple HBA channels could result in the multipathed devices from being activated
 - Addressed an issue where path selection could prematurely fail an I/O when the last remaining path failed simultaneously
 - Corrected an issue where path rediscovry would not activate the path after the link down timeout previously expired
 - Paths that have a scan pending are considered retrying so I/O is suspended when no paths are active.
 - Feature added to allow path activations and deactivations during the link down timeout period to coordinate with other device events to prevent invalid path states.
 - Added PCIe pause support for Thunderbolt hot plugging in OS X 10.9.
 - **Supported OS**
 - Mac OS X 10.9
 - Mac OS X 10.8
 - Mac OS X 10.7
 - Mac OS X 10.6

- **Version 1.03MP (Released 6/27/2013)**
 - **Note:** It is recommended that firmware dated 11/08/2012 be utilized with this driver release.
 - **New Features/Enhancements**
 - Corrected an issue where I/O could be stopped to a device after a link goes down.

- **Version 1.02MP (Released 4/10/2013)**
 - **Note:** It is recommended that firmware dated 11/08/2012 be utilized with this driver release.
 - **New Features/Enhancements**
 - Added '—m' option with the same functionality as the standard driver.
 - Corrected out of resource processing when the mapped controller and destination controller for an I/O are different.

- **Version 1.01MP (Released 1/15/2013)**
 - **Note:** It is recommended that firmware dated 11/08/2012 be utilized with this driver release.
 - **New Features/Enhancements**
 - Changed the default Execution Throttle to 255 (disabled).
 - Implemented interrupt coalescing.
 - Fixed event Log messages so lost frames report with the correct error code.
 - Corrected an issue that could result in devices not being found after waking from sleep.
 - Corrected target identifier determination for certain arrays.
 - Disabled multipathing for certain arrays that do not report proper device identification.

- **Version 1.00MP (Released 11/08/2012)**
 - **Note:** It is recommended that firmware dated 11/08/2012 be utilized with this driver release.
 - **New Features/Enhancements**
 - Initial release of Mac OS X multipathing drivers for the Celerity 16Gb FC adapters.
 - **Supported OS**
 - Mac OS X 10.8
 - Mac OS X 10.7
 - Mac OS X 10.6

3. Known Issues/Advisements

- Multiple direct connections to a Xyratex drive array do not work.

- Celerity quad-channel (FC-164E) is not supported on Mac operating system.

4. 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
Celerity FC-164P	CTFC-164P-000
Celerity FC-162P	CTFC-162P-000
Celerity FC-161P	CTFC-161P-000
Celerity FC-322E	CTFC-322E-000
Celerity FC-321E	CTFC-321E-000
ThunderLink FC 2082 Desklink Device	TLFC-2082-D00
ThunderLink FC 2162 Desklink Device	TLFC-2162-D00

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. Please visit <https://www.attotech.com/support/> for hours of operation.

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