



ATTO Technology, Inc.

Product Release Notes

FastFrame 10GbE CNA Release v1.30 - Windows

1. General Release Information

These product release notes define the new features, changes, known issues and release details that apply to the FastFrame Converged Network Adapters product v1.30 that was released on 9/19/2013. This information pertains to the Windows 8, 7, Server 2008, 2008 R2 and 2012 OS.

2. Changes

- **Version 1.30 (Released 9/19/2012)**
 - The following apply to driver v1.30
 - **New Features**
 - Initial release of CNA Link Aggregation feature.
 - Added support for atreset.
 - Added support to display interrupt information in atinfo.
 - Improved target mode performance.
 - Added uninstall functionality to the driver installer.
 - Functionality has been added so the FastFrame package will safely install in a system which has a previous driver version already installed on the FastFrame hardware.
 - Improvements have been made to the VNIC driver unload code.
 - Resolved an issue caused by the VNIC driver handling FCoE interrupts.
 - Resolved an FCoE issue which caused ADT write-only test failures.
 - Resolved a bus reset condition that occurred during creation of a RAID 1 group in Windows.
 - Improvements have been made to DCBX handling code to ensure that certain DCBX configuration requests from the switch are interpreted correctly.
 - Enhancements have been made to the device reset behavior to complete the reset more quickly.
 - Resolved an I/O issue which caused “Insufficient Resources” errors in Windows 8.
 - Improvements have been made to provide the OS with additional information it can use to maintain the association between individual VNICs and the CNA ports to which they are attached.
 - **Supported OS**
 - Windows 8 (x86, x64)
 - Windows 7 (x86, x64)
 - Windows Server 2012 (x86, x64)
 - Windows Server 2008 (x86, x64)
 - Windows Server 2008 R2 (x86, x64)
- **Version 1.20 (Released 6/21/2012)**
 - The following apply to driver v1.20
 - **New Features**
 - Initial release of CNA Advanced Features
 1. Data Center Bridging Exchange (DCBX) Protocol
 2. MSI interrupts
 3. VN2VN port connections
 4. Target Mode
 5. SM-HBA

- Implemented new transmit and interrupt watchdog timers
 - Corrected checksum and LSO offloads in certain specific cases.
 - Corrected a network connectivity problem upon waking from hibernation.
 - General performance enhancements
- **Version 1.01 (Released 7/28/2011)**
 - The following apply to driver v1.01
 - **New Features**
 - Resolved statistics issue with tracking dropped packets.
 - Resolved MTU size reporting issue.
 - Fixed initialization and reporting of adapter's link state.
 - Improved driver functionality when changing Network Properties options in Windows 2003 x64.
 - Fixed allocation and handling of global adapter list lock.
 - The receive-side DPC handling in the FastFrame driver was modified, resulting in a more responsive system for the user when under heavy load.
 - Added registry settings to specify the number of packets processed per OPC to provide improved functionality.
 - Improved FIP event log messages.
 - Fixed an issue where the driver would hang while parsing a malformed FIP descriptor.
- **Version 1.00 (Released 5/18/2011)**
 - The following apply to driver v1.00
 - **New Features**
 - Initial release of Windows drivers for the FastFrame 10GbE Converged Network Adapters
 - **Supported OS**
 - Windows XP (x86, x64)
 - Windows Vista (x86, x64)
 - Windows 7 (x86, x64)
 - Windows Server 2003 (x86, x64)
 - Windows Server 2008 (x86, x64)
 - Windows Server 2008 R2 (x64)

3. Known Issues/Advisements

- There is an incompatibility between FastFrame quad port cards and the PCIe Gen 3 slots of certain motherboards that use the Intel 7ZZ chipset.
- Remove an unneeded Group completely by removing each member adapter, instead of disabling it, when more than one FastFrame Link Aggregation Group is present to prevent permanently disabling the Group.
- In Windows 8, when the system is shut down and a FastFrame card is physically moved from one PCIe slot to another, the system may fail to boot. This is apparently caused by changes to power management behavior in Windows 8: by default the system hibernates when "shut down" is selected, and does not fully reinitialize on wake. To resolve the problem, forcibly restart the system and delete the restoration file when prompted. The system will discard the stale PCI slot information and detect and initialize the new configuration correctly.
- The Microsoft LLDP protocol driver, MSLLDLP, can interfere with DCBX operation resulting in faulty FCoE operation when enabled on a FastFrame CNA port. Any LLDP packets that are delivered to FastFrame by upper-layer protocols for transmission are discarded.
- Changing LLI moderation settings using the AtCnaNvr CLI tool does not work and disables all LLI settings. A workaround is to use ATTO Configuration Tool to change LLI moderation settings.
- Windows XP shows the speed of the FastFrame Network Adapter device in Network Connections as "1.4 Gbps" when running at a full 10 Gbps. This is an issue with XP and is purely cosmetic.
- FastFrame/ Config Tool hangs when FC Target connection is reconnected.
- Blue Screen disconnecting/reconnecting fibre channel target via FCoE.
- The configured MTU size does not include the extra bytes needed to insert an 802.1q tag. Any link partner must be configured appropriately if 802.1q tags are to be used.

- Properties page hangs when making changes to 5.x driver, after uninstalling TCPIPv6 protocol has left broken “Microsoft Tun Miniport Adapter” device(s). This is a third-party issue.
- The FastFrame driver is incompatible with certain Intel 10GbE drivers, and cannot be installed if such a driver is present on the system.

4. Affected Products

Product Name	SKU
FastFrame CS11	FFRM-CS11-000
FastFrame CS12	FFRM-CS12-000
FastFrame CS14	FFRM-CS14-000

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 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
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