

Alacritech Release 9.3.2093 Release Notes

Date: Thursday, 17 April, 2008

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Introduction

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This is the official release of the 9.3.0.2093 driver package for Alacritech Accelerators on Windows Server platforms using the Microsoft Scalable Networking Pack.

This is a features release for NDIS 6.0 platforms (Windows Server 2008 and Windows Vista). This driver introduces support for Windows Vista, and adds support for tagged VLANs and teaming for Server 2008. This driver also contains bug fixes resolved since the 9.1.0.1283 driver.

This release supports the following Alacritech product families:

- SEN1800 Volume Server Scalable Network Accelerator
- SEN2000 Enterprise Server Scalable Network Accelerator
- SEN2100 Enterprise Server Scalable Network Accelerator
- SES1800 Volume Server Scalable iSCSI Accelerator
- SES2000 Enterprise Server Scalable iSCSI Accelerator
- SES2100 Enterprise Server Scalable iSCSI Accelerator

1000x1 and SES1001 products continue to be supported through the 7.x.x.x drivers. 100 Mbit products continue to be supported through the 6.x.x.x drivers.

This file provides details on known outstanding bugs, support issues and feedback mechanisms for this release.

Content List

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This release contains the following file and directories:

autorun.inf
Launches the installation process on a Windows system if it is located on CD media.

install.html
Front end introduction to the drivers included on the CD.

doc
Files and documentation associated to Alacritech's hardware and software products. The snp directory contains documentation specific to this software release. This includes the Alacritech Accelerator Users Guide.

doc\images
Folder containing files referenced by html documentation.

doc\include
Folder containing files referenced by html documentation.

doc\wlh
The snp directory contains documentation specific to this software release. This includes the Alacritech Accelerator Users Guide.

readme.html
Front end introduction to the driver

RelNotes.txt
This file.

FlashImage
Flash image files to provide a PXE/UNDI interface to Alacritech Accelerators based on the STA2000 ASIC.

wlh
Directories for x86 and x64 versions of the NDIS 6.0 driver software. [Windows Server 2008 and Vista]

x86
The install programs, software drivers, libraries, and utilities for Windows Server 2008 and Windows Vista.

x64
The install programs, software drivers, libraries, and utilities for Windows Server 2008 x64 and Windows Vista x64.

NDIS 6.0 x86 File Versions:

File	Version	Build Date	Description
slicIx86.sys	9.3.0.2093	04/02/2008 5:03 PM	Network Miniport Driver
slicteam.sys	9.3.0.2093	04/02/2008 5:03 PM	Teaming driver

NDIS 6.0 x64 File Versions:

File	Version	Build Date	Description
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```
slicIx64.sys  9.3.0.2093    04/02/2008 5:00 PM    Network Miniport Driver
slicteam.sys 9.3.0.2093    04/02/2008 5:00 PM    Teaming driver
```

PXE/UNDI File Versions:

File	Version*	Build Date		Description
oasis0.bin	1.0.1.3	07/10/2007	1:50 PM	iSCSI boot firmware
oasis1.bin	1.0.1.3	07/10/2007	1:50 PM	iSCSI boot firmware
oasis2.bin	1.0.1.3	07/10/2007	1:50 PM	iSCSI boot firmware
stub_m.nic	1.0.1.3	07/10/2007	1:50 PM	iSCSI boot firmware
stub_mb.nic	1.0.1.3	07/10/2007	1:50 PM	iSCSI boot firmware
stub_mc.nic	1.0.1.3	07/10/2007	1:50 PM	iSCSI boot firmware
stub_mf.nic	1.0.1.3	07/10/2007	1:50 PM	iSCSI boot firmware

*At this time there is no version stamp in the PXI/UNDI files. Version can be determined with 'findstr "Alacritech" *.nic'.

Caveats

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No caveats.

Features

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Supported Hardware

This release supports the following products:

Part Number	Product Description
SEN1800	Volume Server Scalable Network Accelerators
SEN1811XT	PCI-X Gigabit Copper 1-port Network Accelerator
SEN1812XT	PCI-X Gigabit Copper 2-port Network Accelerator
SEN1822ET	PCI-Express Gigabit Copper 2-port Network Accelerator
SES1800	Volume Server Scalable iSCSI Accelerators
SES1811XT	PCI-X Gigabit Copper 1-port iSCSI Accelerator
SES1812XT	PCI-X Gigabit Copper 2-port iSCSI Accelerator
SES1822ET	PCI-Express Gigabit Copper 2-port iSCSI Accelerator
SEN2000	Enterprise Server Scalable Network Accelerators
SEN2001XT	PCI-X Gigabit Copper 1-port Network Accelerator
SEN2001XF	PCI-X Gigabit Fiber 1-port Network Accelerator
SEN2002XT	PCI-X Gigabit Copper 2-port Network Accelerator
SEN2002XF	PCI-X Gigabit Fiber 2-port Network Accelerator
SES2000	Enterprise Server Scalable iSCSI Accelerators
SES2001XT	PCI-X Gigabit Copper 1-port iSCSI Accelerator
SES2001XF	PCI-X Gigabit Fiber 1-port iSCSI Accelerator
SES2002XT	PCI-X Gigabit Copper 2-port iSCSI Accelerator
SES2002XF	PCI-X Gigabit Fiber 2-port iSCSI Accelerator

SEN2100	Enterprise Server Scalable Network Accelerators
SEN2102ET	PCI-Express Gigabit Copper 2-port Network Accelerator
SEN2102EF	PCI-Express Gigabit Fiber 2-port Network Accelerator
SEN2104ET	PCI-Express Gigabit Copper 4-port Network Accelerator
SEN2104EF	PCI-Express Gigabit Fiber 4-port Network Accelerator

SES2100	Enterprise Server Scalable iSCSI Accelerators
SES2102ET	PCI-Express Gigabit Copper 2-port iSCSI Accelerator
SES2102EF	PCI-Express Gigabit Fiber 2-port iSCSI Accelerator
SES2104ET	PCI-Express Gigabit Copper 4-port iSCSI Accelerator
SES2104EF	PCI-Express Gigabit Fiber 4-port iSCSI Accelerator

Supported Platforms

This release is supported only for IA32 x86 and x64 compatible architecture running selected Microsoft Windows operating system versions:

Supported Windows Versions

Enterprise Server Accelerators [2000 & 2100 series]:

- Windows Server 2008 [Standard, Enterprise, Datacenter]
- Windows Server 2008 x64 [Standard, Enterprise, Datacenter]
- Windows Server Core 2008* [Standard, Enterprise, Datacenter]
- Windows Server Core 2008 x64* [Standard, Enterprise, Datacenter]
- Windows Vista [All]

Volume Server Accelerators [1800 series]:

- Windows Server 2008 [Standard]
- Windows Server 2008 x64 [Standard]
- Windows Server Core 2008* [Standard]
- Windows Server Core 2008 x64* [Standard]
- Windows Vista [All]

*Teaming is not supported on Windows Server Core 2008

Existing Features

- Basic NIC Functionality
- TCP Offload
- IPv4 checksum, TCP checksum, and large send offload even when connections not offloaded.
- PXE UNDI flash ROM support (To enable iSCSI boot)
- Jumbo Frames

Added Features:

- Link Aggregation (Teaming)
 - + 802.3ad/(Fast/Gigabit) EtherChannel compatible mode
 - + Hot Standby Failover mode
- Membership in multiple tagged VLANs
- TCP Offload for IPv6

Discontinued Features:

No features have been removed by this release.

Windows Logo (Windows Hardware Quality Lab [WHQL] signature)

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These drivers are all digitally signed by Microsoft.

Known Issues

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This section contains a list of currently understood issues. Both open bugs and known integration issues are documented based on this specific release. Please review the current open bugs and known issues before filing a bug report. See the Support and Feedback section below for details on reporting bugs.

Open Bugs

None known at the time of this release.

Integration Issues

TCP Offload is not available to virtual client operating systems.

Problem - Under Virtual Server 2005 or Hyper-V, TCP Offload is unavailable to client OSes. TCP Offload is available to the host OS. This has design implication for environments where client OSes wish to access iSCSI LUNS. Better performance can be gained by mounting the LUN to the host OS which can then present the LUN to the client as a local disk, rather than having the client OS access the LUN directly.

Workaround: None. The Microsoft virtual network drivers do not support Scalable Networking Pack.

Resolved Issues

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Resolved since 9.1.0.1283

Bug 01684 [All]

BSOD D1 When Deleting the Last VLAN on a Single Adapter

Deleting last VLAN on a non-team member ports resulted in a double free, causing a BSOD.

Bug 01498 [All]

SACK advertised but not implemented

Selective ACK is advertised by Microsoft front end but not supported by Alacritech Offload layer.

Readme

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The readme.html contained with distribution should be used as the starting point for learning about this driver.

Users Guide

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There is a Users Guide contained in the doc directory provided to customers for use with Alacritech Accelerators. For details on installation, management, teaming, and interoperability issues, please review the Users Guide, as full details have been provided there.

Support and Feedback Mechanism

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Before Contacting Customer Support, please browse the troubleshooting section of the Users Guide. Should you need to contact customer support, please gather all of the following information requested in the Incident Reports section below before initiating contact.

To contact Alacritech customer support you may use one of the following options:

Email: support@alacritech.com

Phone: 877.341.8267

Incident Reports

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Please include the following information when sending in an incident request:

Hardware:

- CPUs
- Amount of memory
- PCI busses
- Number of Alacritech accelerators
- Other network interfaces

Software:

- Windows Version (2000, XP, 2003)
- Windows Service Pack version
- Version of Alacritech drivers

Log information:

- Event Viewer details related to Alacritech
- Windows dump files (if there is a crash)

Testing environment:

- What software is being tested
- What types of tests reproduce the problem
- Where is the failure occurring
- What has been done to try and solve the problem

Patents

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One or more U.S. and international patents apply to Alacritech products, including without limitation: U.S. Patent Nos. 6,226,680, 6,247,060, 6,334,153, 6,389,479, 6,393,487, 6,427,171, 6,427,173, 6,434,620, 6,470,415, 6,591,302, 6,658,480, 6,687,758, 6,697,868, 6,751,665, 6,757,746, 6,807,581,

6,938,092, 6,941,386, 6,965,941, 6,996,070, 7,042,898, 7,076,568, 7,089,326,
7,093,099, 7,124,205, 7,133,940, 7,167,926, 7,167,927, 7,174,393, 7,185,266,
7,191,241, 7,191,318.

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