

Demartek Lab Notes - March 2010



Lab Notes

March 2010

Welcome



Welcome to the **Demartek Lab Notes**, our monthly newsletter. This newsletter contains a few links to our recent lab evaluations, articles and upcoming speaking engagements. You may also be interested in some of our planned lab activities for 2010. I look forward to continued discussions with you about these or other topics!

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Public Evaluations

[Demartek Publishes Evaluation of NetApp Ethernet Storage](#)

Demartek recently evaluated the NetApp Ethernet Storage system and its native Fibre Channel over Ethernet (FCoE) connectivity for its flexibility and performance in satisfying FCoE and other storage

protocols. Using Demartek's FCoE server and network infrastructure, this is the first end-to-end native FCoE storage system that we have tested in our on-site lab.



Recent Articles

[Demartek Comments on Windows Server File Classification Infrastructure](#)

Dennis Martin commented on the File Classification Infrastructure (FCI) that is part of Windows Server for an article at SearchWindowServer.com.



[Demartek Publishes Storage Networking Interface Comparison](#)

Because of the number of interfaces and related technologies that are used for storage

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devices (FC, FCoE, IB, iSCSI, SAS, SATA, and USB), Demartek compiled a summary document that provides some basic information for each of the interfaces. This document will be updated periodically.

[Demartek Commentary: FCoE Technology Math Lesson](#)

On the February 2, 2010 Wikibon FCoE Fact vs. Fiction call, we discussed some of the potential technology advantages of Fibre Channel over Ethernet (FCoE). This short article compares a rack of ten servers using current technologies to a rack of ten servers using FCoE technology.

[Demartek Publishes Exchange Server 2003 vs 2007 I/O Comparison Summary](#)

This article summarizes the I/O changes that Microsoft made when moving from Exchange Server 2003 to Exchange Server 2007. This article includes a comparison table. Expect details for Exchange Server 2010 to be added to this summary in the future.

[Demartek Publishes Storage Networking Virtualization \(IOV\) Article](#)

Dennis Martin has written an article describing I/O Virtualization. The complete article is available at SearchStorage.com. Technologies discussed in this article include PCI Express, SR-IOV, MR-IOV, Infiniband, 10GbE and others. Companies mentioned in this article include Aprius, Mellanox, NextIO, VirtenSys and Xsigo Systems.

[Demartek Publishes Unified Data Center Fabric Primer](#)

Dennis Martin has written a series of articles explaining the unified data center fabric, covering topics such as Data Center Bridging (DCB) and Fibre Channel over Ethernet (FCoE). These articles are available at SearchNetworking.com.

Upcoming Speaking Engagements

Storage Networking World (SNW) - April 12-15, 2010

Dennis Martin will present two sessions at the Storage Networking World Conference (SNW) in Orlando, Florida. These sessions are:

- Monday, April 12, 9:20 a.m.: [Unified Storage Networking](#)
- Tuesday, April 13, 2:10 p.m.: [I/O Virtualization - The Next Virtualization Frontier](#)

Drop me a line if you are going to be at SNW in Orlando!

Initiatives For 2010

These are some of the technology areas that will be researched and tested in the Demartek lab this calendar year:



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- Continued FCoE validation testing
- SSDs and their impacts on controllers, applications, and networking
- Server virtualization and storage interaction
- I/O virtualization (SR-IOV, MR-IOV, etc.)
- Updated interfaces (SAS & SATA 6Gb/s, USB 3.0, PCI-Express 2.0, 10GbE, Infiniband)

I'm interested in discussing these topics with you!

Demartek on Skype

Demartek is now using Skype for video conference calls and briefings when available. We know that some travel budgets have been restricted, and we find that using the video feed is a great way to actually see each other while we're giving or receiving presentations. Our Skype id is: **Demartek**. Let me know if you would like to do a free Skype video call.



Dennis Martin
Demartek