



Technology Partner



# Dell and Enmotus: Flash Optimized Storage Server Solutions

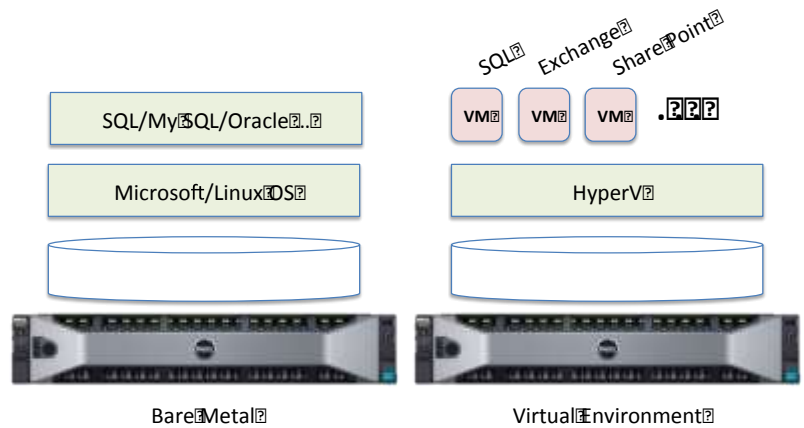
Enmotus FuzeDrive enables flash optimized Dell server solutions that offer the performance of flash with the capacity and price points of HDDs

- Performance – The flash drives are treated as primary storage not look aside cache ensuring full flash performance for both reads and writes for your active data set
- Best in class business economics – Mix any ratio of fast flash and high capacity storage to tailor your solution to to your performance and cost/capacity requirements
- Intelligence – Visual tools provide a simple way to monitor activity of fast and slow tier and guage system efficiency
- Automation – Real-time operation guarantees that your hot data is on the fast storage tier when you need it without any manual intervention
- Future Proof – Create flash/HDD virtual drives as well as flash/flash for the ultimate all flash solution
- Multi-environment - Baremetal, sub-hypervisor or virtual machine client deployment ensuring compatibility across multiple environments.

The proliferation of flash has altered the storage landscape. As flash prices come down and capacities go up, there is no doubt that integrating flash into your storage solutions is no longer a luxury but a necessity. Conversely, the amount of data being created continues to grow exponentially, and storing this data on flash is economically unfeasible. The Enmotus FuzeDrive addresses both of these challenges.

### The Solution

Enmotus FuzeDrive software creates a Virtual SSD drive from the combination of 2 different classes of storage media. Typically this is Flash and HDD, but can also be high performance flash combined with cost effective capacity flash for an all flash hybrid. The Virtual SSD has the performance characteristics of the high speed flash with cost/capacity points of the bulk storage media. Our MicroTiering™ technology is fully automated and operates in real-time, ensuring that your active data resides on the high speed tier. Unlike caching technologies, FuzeDrive treats the flash as the primary storage providing a significant step up in performance over legacy SSD caching solutions. FuzeDrive’s flexibility allows any ratio of high speed to slow speed tier, thereby allowing users to tailor the solution to match their performance requirements to their capacity requirements and staying within a budget.



### Key Differentiators:

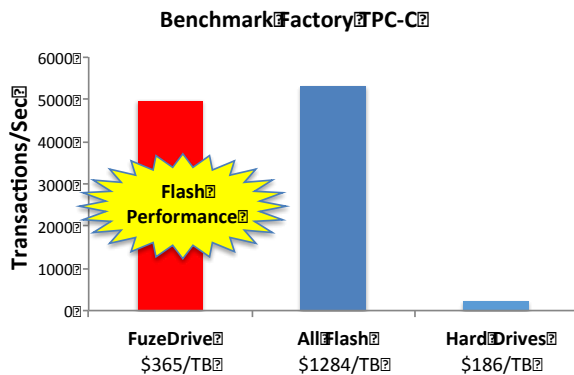
- SSD class performance for virtual hybrid disks
- Best in class business economics
- Monitoring tools provide visibility into performance and capacity tiers
- Intelligently move active data in real time
- Pin critical files for guaranteed performance and minimal latency
- Simple 5 minute install
- Migrate existing systems in minutes

### Target Applications:

Dell Storage Servers with FuzeDrive software are the ideal solution for performance intensive applications. Bare metal servers targeting a single application can take full advantage of the performance of the flash storage while maintaining competitive cost points. Dell and FuzeDrive increase the efficiency of virtualized servers, allowing an increase of virtual machines plus providing the capacity to store large volumes of data. Support for both Windows and Linux operating systems plus a wide range of storage devices means the solution can be tailored to any application and system requirement. FuzeDrive is compatible with all enterprise flash devices including NVMe, PCIe, SAS and SATA and will allow you to transition seamlessly to the newer SCM class memory.

### Increase Your Servers Efficiency – Not Your Budget

Block based tiering increases the efficiency of the FuzeDrive hybrid virtual SSD volumes, which means users can take advantage of the full performance with minimal flash.

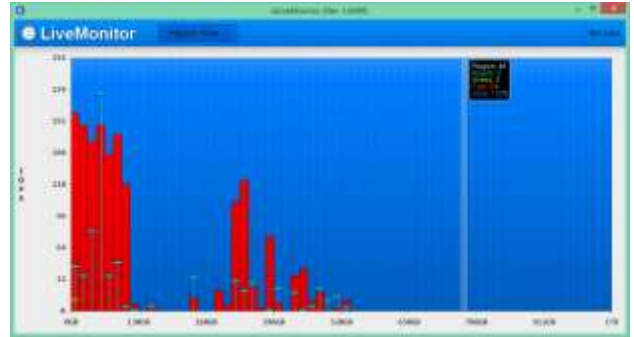


The example above illustrates that with the FuzeDrive solution, users can attain flash performance at a fraction of the cost of an all flash array. DRAM for the application was minimized in order to show the performance of the FuzeDrive engine. The FuzeDrive solution was able to process 22X the number of transactions as compared to a hard drive only solution. The analysis is storage media cost only based on an 8TB system and publically available retail pricing. It also includes MSRP pricing for the FuzeDrive Software. FuzeDrive supports virtual volumes up to 256 TB in capacity.

### Do You Know What Your SSD is Doing?

Enmotus FuzeDrive provides a rich set of configuration and monitoring tools. Flexible tiering policies, coupled with file based pinning gives IT managers the tools they need to fine tune their storage to meet the requirements of their application. Advanced graphical monitoring utilities help the IT Manager understand how well the tiered volume is adapting to activity levels across a tiered volume. A quick visual inspection verifies that the activity

remains concentrated on the fast tier. As data access patterns change, IT managers can see the newly active data being promoted to the fast tier in real time.



### About Enmotus

Enmotus develops intelligent storage acceleration software for next generation data center, web scale and professional workstation applications. Our hybrid storage software solution, FuzeDrive, enables system builders and IT managers to easily build hybrid storage solutions using any standard block storage device, including NVDIMM, NVMe, PCIe SSDs and SAS/SATA storage devices, presenting them as a real time automated tiered devices within Windows or Linux based operating systems.

Enmotus was founded by storage and virtualization experts. For more information, please visit [www.enmotus.com](http://www.enmotus.com) or contact us at [info@enmotus.com](mailto:info@enmotus.com).

### The Dell Technology Partner Program

Enmotus is a Dell Technology Partner, and FuzeDrive is certified by Dell to run on the Dell platforms specified in the above technical overview.

The [Dell Technology Partner Program](http://www.dell.com/partners) is a multi-tier program that includes ISVs, IHVs and Solution Providers. This global program helps partners build innovative and competitive business solutions using Dell platforms. Program resources keep customer costs low and helps to sustain competitiveness.

The program has a structured and streamlined process that combines technology and business strategies with Dell Solution Center expertise to onboard and test partner products on Dell platforms. This testing process helps ensure that products have met the technical requirements to perform well on Dell platforms.

