USE CASE: USING vMOTION MIGRATION BETWEEN DISSIMILAR STORAGE ARRAYS

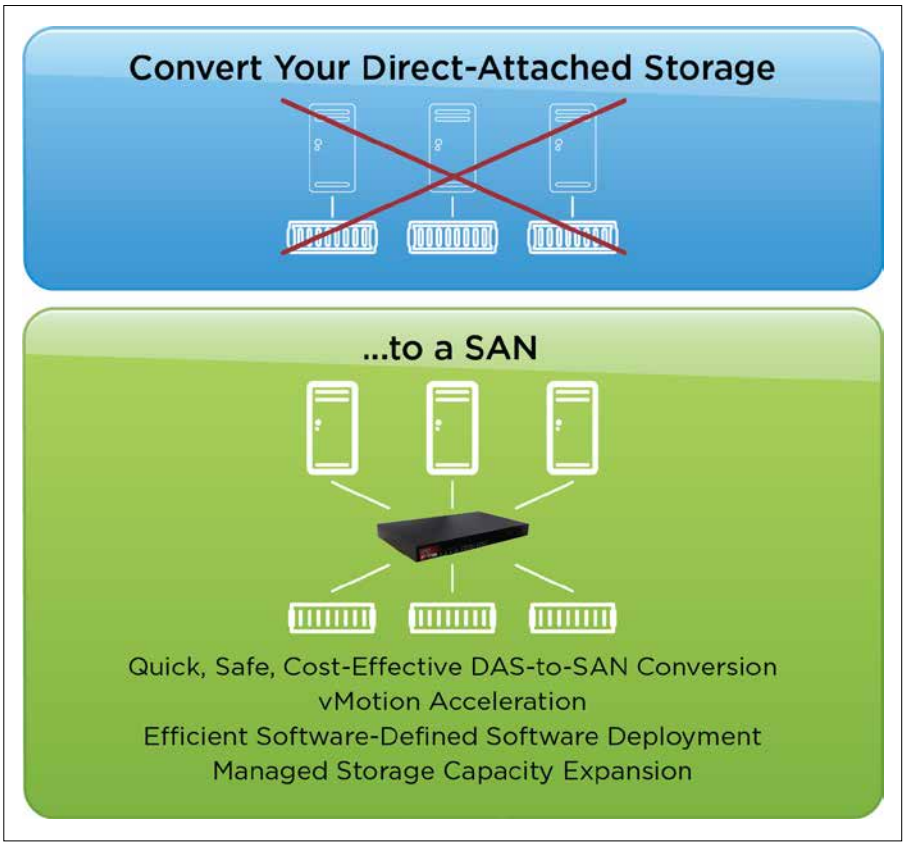
Enterprise Fibre Channel SAN Connectivity

Convert your Direct Attached Storage into a SAN

ATTO's XstreamCORE™ is an external storage controller that allows IT administrators to decouple their direct attached external SAS storage and present the storage as part of the Fibre Channel fabric to multiple hosts. ATTOs XstreamCORE Storage Controller reduces live migration time by eliminating the need to migrate data. By creating a SAN using the XstreamCORE Storage Controller, all physical hosts can see the storage that VMs reside on. This removes the need to migrate the VM data. The system state is the sole data that is required to be migrated by VMware vSphere vMotion®.

XstreamCORE Dissimilar Array VAAI Support

ATTO's XstreamCORE provides support for VMware's vStorage API for Array Integration (VAAI). ATTO's XstreamCORE also has the ability through aliasing to allow VAAI functionality between dissimilar arrays installed behind the controller. This means that XCOPY and other functions are supported between any storage chassis which is attached to the XstreamCORE Storage Controller. This feature is unique to ATTO's XstreamCORE Storage Controller.



"By converting Direct Attached environments to shared storage, users can experience much faster data transfers between physical hosts or between hosts and storage, allowing VMware functions like vMotion live migration to complete in a shorter amount of time."

JAMES U'REN
STORAGE CONTROLLER PRODUCT MANAGER
ATTO TECHNOLOGY

ABOUT VMWARE VSPHERE®

The vSphere platform—the best foundation for your applications, your cloud and your business. vSphere helps you get the best performance, availability, and efficiency from your infrastructure and applications. It's the ideal foundation for any cloud environment.

ABOUT ATTO'S XSTREAMCORE STORAGE CONTROLLER

The controller platform features hardware acceleration engines for high performance support for Flash SSDs, HDDs and open services and features such as data mover, VMware integration, latency analytics performance monitoring, and host LUN mapping with new features and services are in development.

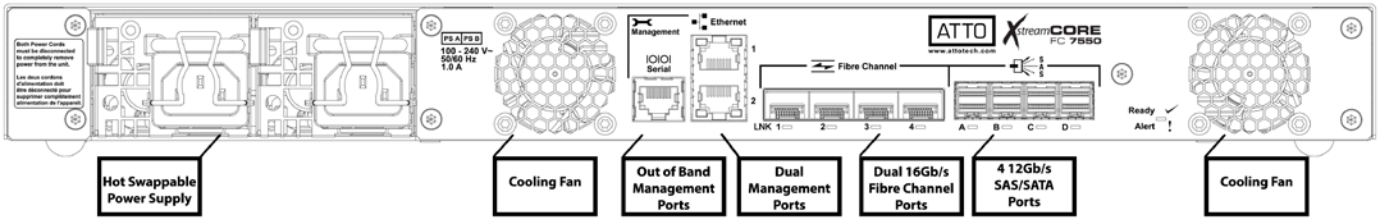
VMware Ready™ XstreamCORE Storage Controller

What makes XstreamCORE different than other storage controllers is a pair of industry-leading technologies designed to allow storage architects to build highly scalable, shared storage solutions that take advantage of commodity flash and capacity storage, enabling systems builders to manage up to 240 storage devices from a single pane of glass. XstreamCORE storage controller includes support for VAAI to enhance performance of virtual machine management operations by off-loading these operations to the XstreamCORE. With hardware offload, VMware ESXi™ hosts may perform certain operations faster while consuming less host CPU and memory resources, storage fabric and network bandwidth.

ATTO Technology's XstreamCORE Storage Controller has earned the VMware Ready logo, signifying to customers that it has met specific VMware integration and interoperability standards and works effectively with VMware infrastructure, which can optimize customer environments,

Create a Safe, Fast SAN Using the XstreamCORE Storage Controller

XstreamCORE provides the same or lower costs with full redundancy when compared to the options of purchasing a new SAN or converting the controllers of an array to provide Fibre Channel SAN connectivity. There is minimal disruption to the production environment, no risk to the data as the controllers remain the same, and an increase to the backbone capacity which allows the arrays to run at wire speed. XstreamCORE and ATTO Fibre Channel HBAs can be installed during a minimal maintenance window. The Fibre Channel fabric can be created during production hours. During the conversion arrays are disconnected from the servers, mapped to the ATTO XstreamCORE Storage Controller, and the hosts connected to the Fibre Channel fabric. Virtual machines can be backed up in minutes as compared to hours or days. Backbone speed is increased to 16 Gb and the attached arrays will have up to 12 Gb SAS connectivity.



ATTO TECHNOLOGY

For nearly 30 years, ATTO Technology, Inc. has been a global leader across the IT and media & entertainment markets, specializing in storage and network connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO solutions provide a high level of connectivity to all storage interfaces, including Fibre Channel, SAS, SATA, iSCSI, 40/10GbE, and Thunderbolt. ATTO is the Power Behind the Storage.

SYSTEM SPECS

- xCORE™ Hardware Acceleration Technology to eliminate bottlenecks.
- eCORE™ Control Engine adds common, open storage services.
- XstreamVIEW™ remote management user interface for configuration, monitoring, and management of ATTO's storage controller products.
- Up to four 16 Gb/s Fibre Channel ports.
- Four x4 12 Gb/s Mini-SAS HD connectors (16 phys).
- Up to 2.2M 4K IOPS with <4 micro seconds latency.

Use Cases

Increase ROI and lifespan of existing storage solutions by quickly and cost effectively converting direct attached SAS RAID, JBOD, or JBOF storage to high performance SAN technology.

- VMware vSphere 6.0 certified.
- Easily changes architecture from direct attached to shared storage adding DAS storage on a fabric quickly.
- Improves live migration completion time from hours down to a few minutes.
- Installs on 4 ESXi servers in under an hour.
- No data migration needed.

Find Our Solutions in the VMware Solution Exchange

https://solutionexchange.vmware.com/store/companies/atto-technology-inc

Learn More

To learn more about how ATTO Technology and how vSphere can improve performance in vMotion live migration, download our whitepaper at: http://bit.ly/2h2SUHq.

VMware, Inc. 3401 Hillview Avenue Palo Alto CA 94304 USA Tel 877-486-9273 Fax 650-427-5001 www.vmware.com