TECH BRIEF

ATTO

vSAN Benefits

- Software-defined – Leverages industry standard hardware for lower TCO
- Converged – Lets you to create dense, building block-style solutions
- Flash-optimized – Built-in caching using server-side flash devices accelerates I/O and reduces storage latency
- Flexible – Elastic, non-disruptive scale-up and scale-out: Just add more disks or more hosts
- Simple – Integration with vSphere 6.0 provides single pane of glass management
- Automated – Per virtual machine policy based management automates provisioning of storage resources

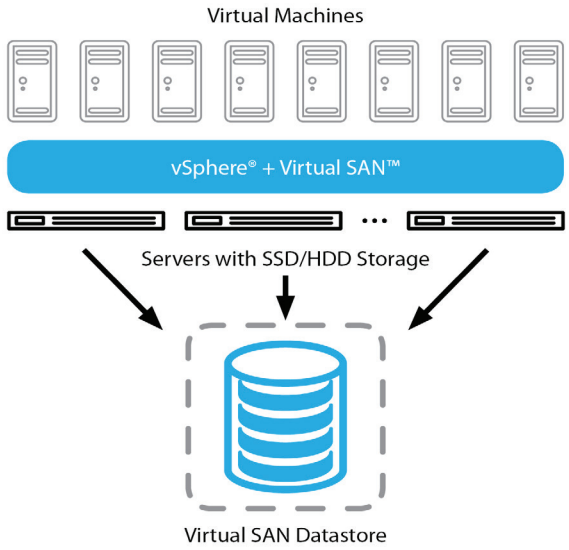
About VMware

VMware® is the leader in virtualization and cloud infrastructure solutions that enable businesses to thrive in the cloud era. Customers rely on VMware to help them transform the way they build, deliver and consume Information Technology resources in a manner that is evolutionary and based on their specific needs.

VMware® vSAN and Storage Virtualization

The speed, availability and predictable performance provided by Fibre Channel storage area networks (SANs) have made them a go-to solution for enterprises that require resilient data storage. But Fibre Channel SANs aren't a perfect fit for all organizations. Small-to-medium businesses in particular will benefit from an alternative solution—one that offers lower total cost of ownership Total Cost of Ownership (TCO), reduced complexity and an ability to easily scale resources in response to evolving business needs.

For such organizations, VMware® vSAN can provide that alternative. vSAN is VMware software defined storage (SDS), a hypervisor-based distributed platform that enables the convergence of compute and storage resources. Designed to be deployed on standard x86 servers in a heterogeneous hardware environment, vSAN significantly reduces storage TCO while offering the flexibility to use all-flash or hybrid flash/hard disk drive (HDD) configurations depending on performance requirements. In addition, vSAN simplifies and speeds up storage provisioning through policy based management with virtual machine-level granularity



ATTO ExpressSAS® host bus adapters (HBAs) provide key enabling technology for VMWare vSAN solutions.

About ATTO

For over 30 years, ATTO Technology, has been a global leader across the IT and media & entertainment markets, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with partners to deliver end-to-end solutions to better store, manage and deliver data.

Express HBAs

ATTO ExpressSAS® family of HBAs provide users with up to 12Gb SAS/SATA connectivity while enabling scalability for next-generation platforms and infrastructures. ExpressSAS HBAs are optimized for high bandwidth data transfers and feature a wide variety of port configurations to ensure flexibility for demanding applications. They additionally benefit from ATTO Advanced Data Streaming (ADS™) Technology that reduces latency by managing data acceleration to maximize the number of transactions the host's CPU can process.

- Qualified with major SAS/SATA SSDs and HDDs
- Mixed SSD/HDD workload support
- Handles greater than 256 queue depths
- Connects up to 2048 unique devices
- Proprietary ADS technology to minimize latency
- Efficiently handles both large and small block transfers
- VMware® driver support
- Advanced Format storage media support (512e, 4Kn)

ATTO Technology vConfigTool

ATTO vConfigTool™ for VMware vCenter Server is a software plug-in that integrates centralized management and monitoring of Celerity™ Fibre Channel and ExpressSAS® SAS/SATA HBAs into VMware virtual environments. The foundation for this virtualization management utility is built upon ATTO ConfigTool™ manager, a powerful tool designed to help IT administrators optimize storage connectivity performance. With vConfigTool for VMware vCenter Server, IT administrators using vSphere 5.5 and later web clients can accelerate adapter deployments, optimize configurations, improve system availability and reduce VMware host infrastructure cost.