

About ATTO

For over 30 years, ATTO Technology, Inc. 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. Working as an extension of customer's design teams, ATTO manufactures host bus adapters, network adapters, protocol bridges, Thunderbolt™ adapters, and software. ATTO solutions provide high level connectivity to all storage interfaces, including Fibre Channel, SAS/SATA, iSCSI, Ethernet, NVMe, NVMe over Fabrics and Thunderbolt. ATTO is the Power Behind the Storage.

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Stretch Clusters with ATTO XstreamCORE® 7600

Building a Business Continuity Solution

ATTO Technology, Inc., XstreamCORE® storage controllers enable stretch clusters by enabling low latency Fibre Channel connections to SAS storage. Aggregate storage up to 240 drives while software defined storage then manages reads and writes to multiple sites while maintaining high resiliency.

ATTO XstreamCORE 7600 works well for 2 dual controller solutions and offers high-performance:

- <4 microseconds of latency
- 1.1M 4K IOPS per controller
- 6,400 MB/s per controller

Where to use Stretch Clusters

Clusters Across Metropolitan Areas

- Avoid data loss in the event of a disaster up to 10km between sites
- Protect financial, medical or business assets at a second site

Same Campus or Facility

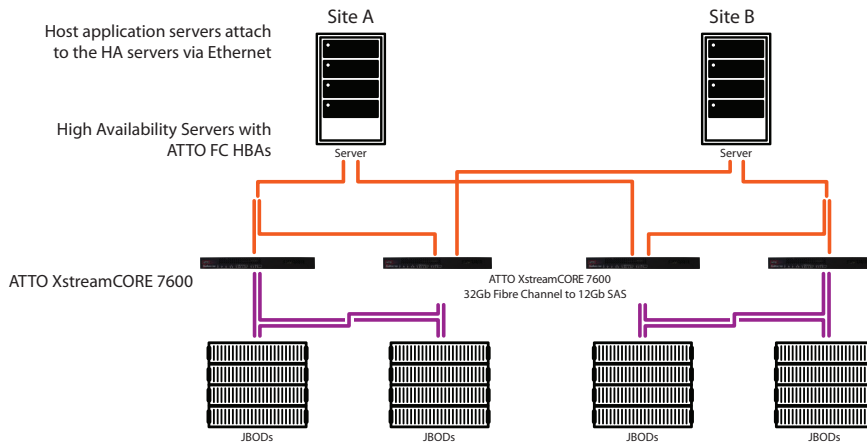
- Maintain 24/7 uptime access to files
- Keep a production site running non-stop
- Provide a high-performance medium to migrate data between sites

Stretch Cluster Benefits

- Zero planned and unplanned down time
- Workload mobility
- Cross-site automated load balancing
- Enhanced downtime avoidance
- Increased on-site data availability
- Disaster avoidance (workloads can be moved between sites)



Stretch Cluster up to 10KM Between Sites While Fabric Attached Metro Cluster can reach 300KM



Disaster Avoidance

Disaster Avoidance involves proactive behavior to circumvent an impending storage outage. Even if a partial site failure occurs, disasters tend to affect an entire site. Disaster avoidance technologies allow for configuration of a host, cluster or site in a fashion that keeps systems running with minimal interruption. There may be a brief outage at one location followed by a restart at the recovery site, but a minimum outage sustained under controlled circumstances is considered to be an acceptable alternative to an extended one.

Downtime Avoidance

Downtime Avoidance is similar to Disaster Avoidance. The main difference is that with Downtime Avoidance, virtualization technologies can move virtual machines or virtual storage with no interruption to service.

Disaster Recovery

Disaster Recovery helps to rapidly restore services when there is an unexpected outage and the recovery time is unknown. In these environments, the goal is to rapidly return to full operation, usually in a different data center.

High-Availability and Fault Recovery

High-availability technology reduces the length of an outage sustained by a failure and allows for rapid recovery of system services. High availability clusters provide automated fault recovery in a reactive fashion, with virtual machines restarted as required to recover from unplanned outages.