

# Benefits of ATTO Storage Controllers with Stretch Clusters

## STRETCH CLUSTERS 101:

There are several methods, topologies and technologies that enable a stretched cluster. ATTO Technology, Inc., storage controllers help many different vendors build stretch clusters by enabling low latency Fibre Channel connectivity using off-the-shelf SAS JBOD or JBOF storage and connecting this storage to multiple servers at multiple data center sites. ATTO storage controllers connect up to 240 drives to multiple servers at one site while enabling reads and writes to servers at a second site.

## HIGHER AVAILABILITY AND RELIABILITY:

### Decoupling storage from servers

When storage is included inside the server it creates a potential point of failure that, when a server fails, cuts off access to on-site storage. This will cause an unnecessary failover to the second host site which reduces resiliency. A simple alteration to the topology using ATTO storage controllers will virtually eliminate this undesirable scenario.

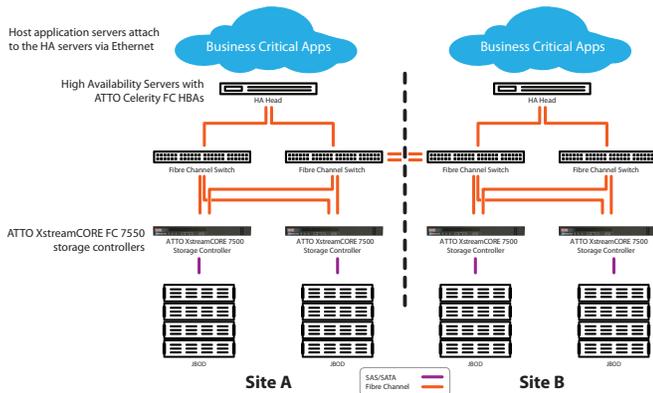
### Use ATTO storage controllers to remotely separate storage from the server

When using a server attached to SAS JBOD or JBOF enclosures, the storage remains resilient when all servers on both sites have shared access to the same pool of storage. If one or any of the servers fail, there is no failover event that needs to occur because secondary on-site servers will retain communication with on-site storage.

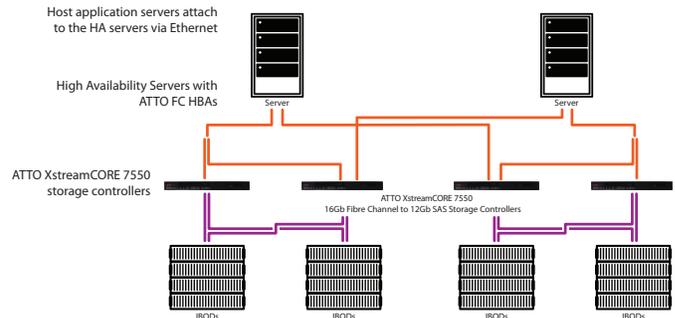
### Longer distances between sites with synchronous replication due to lower latency

With switched environments, synchronous mirroring between host sites can be up to 400km apart. While in unswitched environments, Fibre Channel allows up to a 10km distance between clusters allowing for a resilient solution on large campuses, manufacturing companies and other sites that don't require extended distances. These companies may not have the ability to meet business continuity and production objectives with other technology.

## LONG DISTANCE STRETCH CLUSTER WITH FIBRE CHANNEL SWITCHES



## SWITCHLESS STRETCH CLUSTER UP TO 10KM BETWEEN SITES



### ATTO storage controller products that work with stretch clusters

Product	4K IOPS	Throughput	Fibre Ports	x4 SAS Ports	SKU
XstreamCORE™ FC 7550	1.2M	6,400 MB/s	4 -16Gb	4	XCFC-7550-004
XstreamCORE™ FC 7500	735,000	3,200 MB/s	2 -16Gb	4	XCFC-7500-002