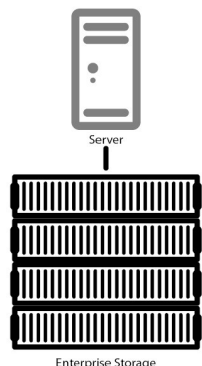


# eCORE Control Engine

## MOVING TO A SOFTWARE-DEFINED WORLD?

If you have been paying even a little attention to the storage world lately you will notice claims of a revolutionary change in the market as traditional storage is being challenged by software-defined storage (SDS). The transfer of features out of storage and into servers running SDS software has been the latest technology shift claiming to pay dividends to those implementing new, open storage solutions.

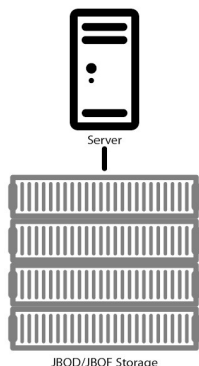


*Traditional storage architectures provide services and features such as RAID, deduplication and snapshots at the enclosure level. This leads to higher expense as these services and features may need to be purchased several times over*

## WHAT IS THE BENEFIT OF ALL THINGS SOFTWARE DEFINED?

One of the primary benefits of moving to SDS infrastructures is reducing the overall cost of storage. By moving features and licensing costs to the server and using off-the-shelf JBOD (just a box of disks) or JBOF (just a box of flash) storage organizations can save an impressive amount of capital expenditure by reducing the cost of and eliminating the need for proprietary monolithic storage products. Flexibility is also increased as JBOD and JBOF storage can stay in use almost

indefinitely as long as the hardware is in good working condition with storage capacity added as needed—no more rip and replace refreshes are required.



What does this mean

*Software defined storage architectures provide services and features at the server level. This allows one place to maintain feature licensing while using lower cost storage to architect a data center*

to you? Now you can use multiple server heads running SDS and change servers out as new features, performance or hardware is required to keep up with desired features and service level agreements (SLAs). You can add new JBOD or JBOF storage, and since it is storage that has no intelligence, storage lock-in is eliminated so almost any brand of storage can be used to scale up.

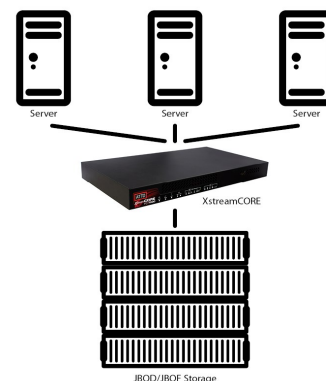
## ATTO eCORE CONTROL ENGINE TECHNOLOGY

ATTO Technology, Inc., has developed control engine technology that complements SDS by separating data and control paths so that ATTO's eCORE can add common, open storage services, industry standard API integration, reservation handling, storage routing and host and LUN mapping functions. When using off-the-shelf JBOD or JBOF storage many of these hardware features and acceleration technologies are lost, leading to missing features or longer latency times. The eCORE Control Engine also manages traffic for data mover

offload functions with error handling and diagnostic tools. These features add value to JBOD or JBOF storage while providing tight integration with server based software.

## WHERE CAN I FIND eCORE?

eCORE technology is currently available exclusively on ATTO XstreamCORE™ solid state storage controllers which connect off-the-shelf JBOD, JBOF and RAID storage to shared storage networks. XstreamCORE allows system architects to build solutions that meet today's demanding performance requirements while allowing up to 240 SSD flash devices to connect to multiple servers, which leads to a benefit of reducing or eliminating the need for flash inside the server and lower software licensing costs.



*XstreamCORE storage controllers allows multiple servers running software defined storage to share off the shelf storage at high speed while adding features that accelerate and offload data transfers from host servers*

**Contact ATTO today to find out more about how XstreamCORE storage controllers with eCORE Control Engine technology can improve your storage solution.**