

## Features

**Key Benefits**

- Next generation disaggregated NVMe-oF platform disrupts current architectures
- iSCSI-based interfaces allow for easy migration from legacy systems to modern, scale-out applications
- Thin provisioning of NVMe volumes for unpredictable data surges
- Use encryption at rest to assure the privacy and security of your most important fast data
- Use standard Ethernet and NVMe-oF drivers
- Operate with nearline storage as a complete solution to existing backup and archive systems

**Pavilion Benefits**

- Up to 920TB in 4U fully shared or partitioned
- 20m IOPS, 120GB/sec read and 90GB/sec write bandwidth @ 40µsec latency
- Create independent storage zones for DevOps, Test and backup
- Use zero-space snapshots and clones minimize network traffic and maximize productivity
- OPENCHOICE Storage lowers procurement costs and future-proofs investment

# NVME-oF STORAGE FOR CLASSIFIED AGENCIES

## Accelerating Digital Transformation

**Deliver new insights with speed and agility**

Facial recognition, event correlation, and high-fidelity surveillance demand performance storage that simply cannot be delivered by traditional SAN or NAS storage. Artificial intelligence and big data analytics are game-changing technologies for your agency, yet achieving real-time insights across petabytes of images, video, text, and social media feeds in a shared filesystem is often described as impossible.

Pavilion Data makes the impossible, possible with seamless integration into architectures like IBM's Spectrum Scale™ by leveraging NVMe-oF into a system designed for NVMe SSDs from the ground up. Previously, attempting to use NVMe technology for anything other than metadata access was unheard of. However, data processing and storage architectures have evolved rapidly, and Pavilion Data is at the forefront of classified agency transformation.

Traditional SAN or NAS architectures based on monolithic architectures have reached their limits for big data and fast data analytics. In fact, it is rare to find leading internet and consumer-facing for-profit firms using anything except modern, scale-out storage solutions for massively parallel applications. Not only do the applications and systems not scale for correlation of images, videos, and structured queries, the sheer throughput requirements cannot be delivered by shared storage systems.

Pavilion Data's technology and partnership with leading classified solutions providers offer a better way. NVMe-oF has crossed the chasm and offers the reliability, security, and manageability that organizations have trusted with SAN for modern, rack-scale applications, enabling new technologies with low risk and high return.

**Look forward – Look to Pavilion**

Pavilion Data is leading the way in government transformation. Whether it is a logical evolution of a global file system improve storage utilization, shatter backup windows and achieve compliance, or a wholesale replacement of your infrastructure with Spectrum Scale, Apache HDFS with Spark™, our NVMe-oF Storage Platform provides unprecedented performance, availability and management features to future-proof your storage infrastructure as you bring insights to your big data analytics.

**Performance**

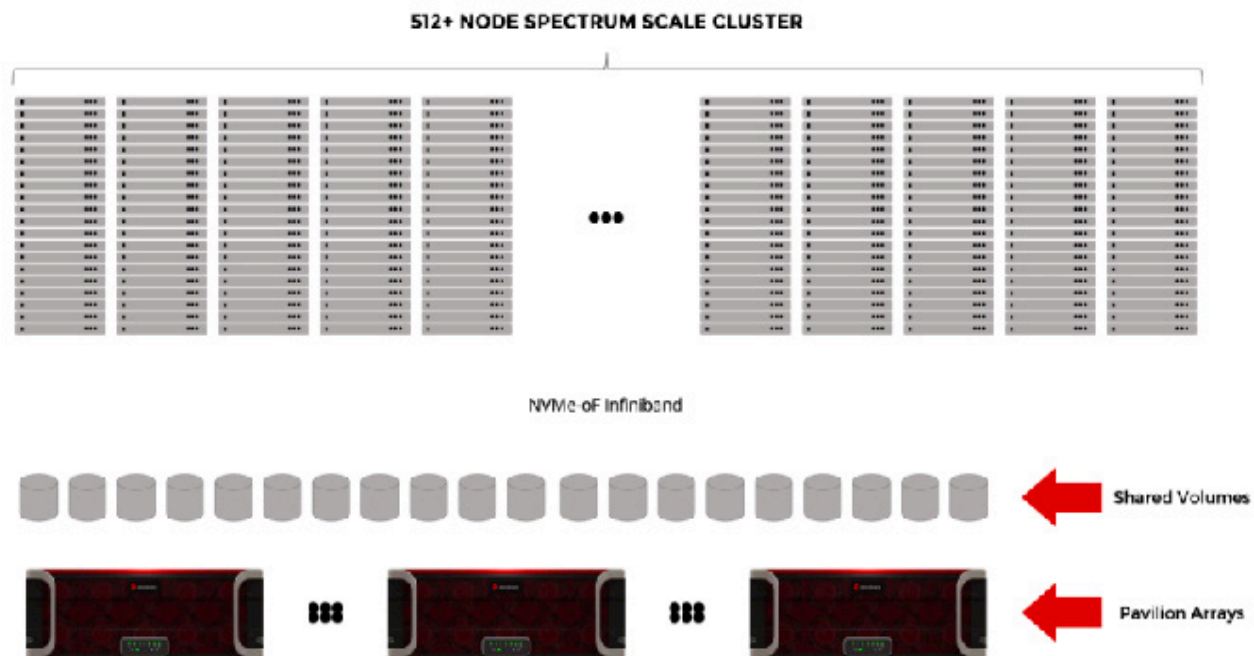
Pavilion Data has the industry's lowest latency disaggregated storage array. At 40 microseconds from a host, over RDMA-based fabrics and through 20 parallel storage controllers to a RAID-6 volume of OPENCHOICE NVMe SSDs, Pavilion Data's performance is unparalleled. To achieve similar results in just 4 Rack Units (RU) of space, competing alternatives require at least 80 RU, or two full racks and as much as 14TB of DRAM at 10 times the acquisition cost.

## Availability

Of course, you demand no single points of failure, standards-based hardware and protocols as well as redundancy throughout a storage array. Pavilion has you covered. Our platform features a completely fault tolerant design from controllers, power supplies, fans, management controllers, even dual PCIe switching fabrics. Using standard distribution NVMe-oF operating system drivers, multi-pathing to our 20 controllers assures fail-over in the event a network link or storage controller is unavailable.

## Versatility

With up to 20 storage controllers and 40 Ethernet or Infiniband fabric connections fully non-blocking at 100Gb/sec. the Pavilion array can serve as the ideal next wave of NVMe storage deployment for massive rack-scale workloads. Deploy the largest and fastest NVMe drives without concern for application performance impact in the event of a node recovery. Use a combination of read-intensive and high endurance drives for a bottom-of-rack configuration that services multiple workloads across a cluster. With OPENCHOICE future-proofing your storage investment has never been easier.



Alternatively, our platform is a perfect All-in-One solution for multi-purpose Test and DevOps environments that can seamlessly expand to rack-scale. Use our GUI or API to integrate with management frameworks like Swordfish™ or Redfish™ to create specific numbers of network, controller and SSD volumes with read-intensive drives, define other volumes for write performance, others for endurance, and yet other volumes with high-capacity drives for snapshots, clones and connectivity to standard backup technologies.

With built-in encryption for data at rest, meeting compliance requirements is a fundamental part of the system design.

Hedge funds and HFT are undergoing radical transformation. Pavilion Data offers a storage platform enabling you to become a disruptor using proven technology and trusted storage management techniques.

Learn more today at [www.paviliondata.io](http://www.paviliondata.io)