

# NVME-oF STORAGE FOR GOVERNMENTS

## 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
- Work with a GDPR-compliant storage innovator
- 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

## Digital Transformation Without Compromise

### Deliver new capabilities with speed and agility

Artificial intelligence and analytics are game-changing technologies for governments. By managing citizen information with large-scale repositories and creating effective communications to the right individuals via their preferred channel is rapidly becoming the most effective means of communications. Similarly, cleansing large data sets for accuracy, geo-location, contextual reference, and pattern identification allows governments to increase citizen engagement and satisfaction.

Couple these omnichannel communications methods with the diverse set of databases (tens or even hundreds) where individual citizen information may be stored, along with tight budget constraints and it is clear that the traditional infrastructure of government must be reimagined to maintain accurate and consistent records with a rapid return on investment and the lowest possible total cost of ownership over time.

Data processing and storage architectures have evolved rapidly. Traditional SAN or NAS architectures based on monolithic applications and databases 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 solutions. Not only do the applications and systems not scale for correlation of images, videos and structured queries, the exorbitant cost of licenses and support limit the remaining IT budget from performing real transformation.

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

### Look forward – Look to Pavilion

Pavilion Data is leading the way in government transformation. Whether it is a logical evolution of a VMWare-based environment to improve storage utilization, shatter backup windows and achieve compliance, or a wholesale replacement of the customer experience with MongoDB, MariaDB, Cassandra or AeroSpike, our NVMe-oF Storage Platform provides unprecedented performance, availability and versatility to future-proof your storage infrastructure as you bring new services and efficiencies to your customers.

### Performance

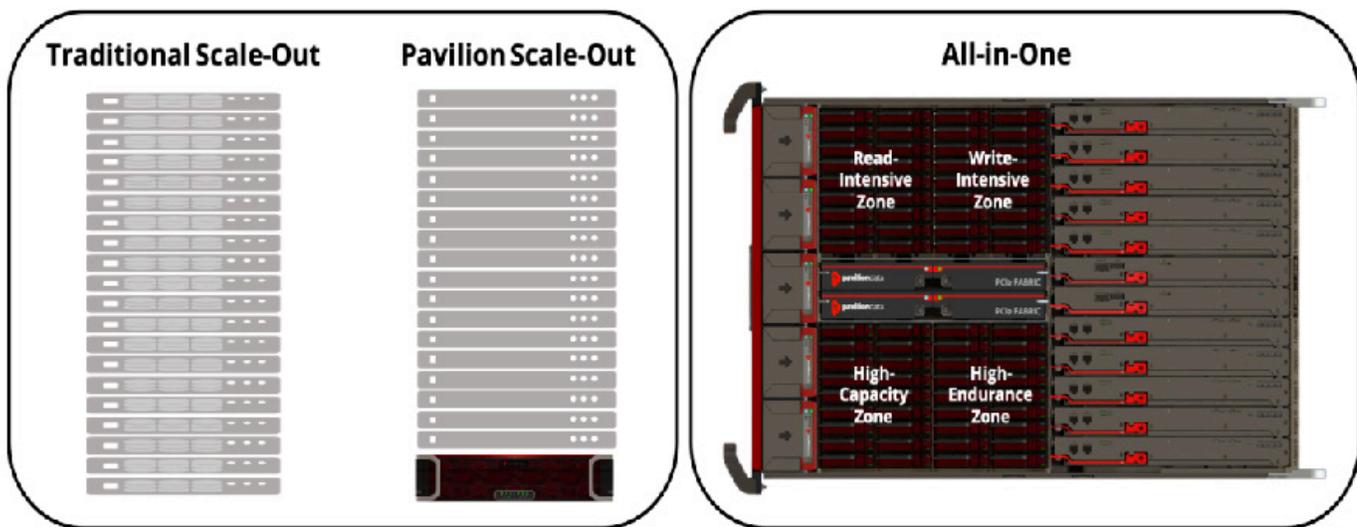
Pavilion Data has the industry's lowest latency disaggregated storage array. At 40 microseconds from a host, over RDMA-based fabrics and through 20 parallel storage controllers to a RAID-6 volume of OPENCHOICE NVMe SSDs, Pavilion Data's performance is unparalleled. To achieve similar results in just 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)