

Pavilion HyperParallel Data Platform™ for Banking

Accelerate retail banking applications with real-time performance at scale

In seeking to serve the changing needs of their global customers, retail banks face a diverse and complex set of challenges. Consumers expect that real time banking services are available in multiple formats. They demand instant gratification, either in a branch or on-line, quicker transaction processing for credit card approvals and faster transactions. Banks have to deal with analyzing these transactions for fraudulent activity and regulatory increases. Plus, they must struggle to navigate internal, federal, and local regulatory requirements. All, while frequently needing to transform their business models to respond and stay relevant.

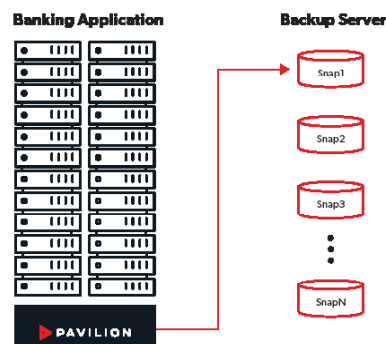
In response, banks are increasing analysis of their structured and unstructured data, and need to speed time to results. To stay competitive, they are mandated to reduce costs, and storage resources is one of the largest costs in a data center, so it needs to be economical as well as future proofed.

Now banks can reduce storage over provisioning, accommodate storage growth, consolidate applications, accelerate time to results, and reduce TCO with the Pavilion HyperParallel Data Platform. The Pavilion HyperParallel Data Platform scales to over a 2 PB of capacity in each 4RU system, and provides unprecedented high performance, and ultra-low latency to banking applications in an affordable solution.

Direct attached storage and legacy all-flash arrays can't analyze data quickly enough to provide an unrivaled customer experience. The Pavilion HyperParallel Data Platform delivers the performance of NVMe DAS and all the benefits of fabric attached storage, along with the reliability, security, manageability, and user experience that banks need.

The Pavilion HyperParallel Data Platform

The Pavilion HyperParallel Data Platform delivers never before seen performance (120 GB/s throughput and 20M IOPS), latency (25µs) and density (2.2 PB) in a compact 4U form factor. It provides applications with the performance of locally attached NVMe SSDs, enabling banking organizations to move to a Composable, Disaggregated Infrastructure (CDI) infrastructure, where application resources are readily available. The Pavilion HFA supports multiple block, file, and object protocols with NVMe-oF/RDMA, NVMe-oF/TCP, iSCSI, NFS, and S3.



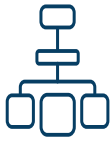
The Pavilion HyperParallel Data Platform requires no

Benefits

- Increases density 2X
- Reduces storage deployed by 75% and storage TCO by half
- Petabyte scalability, high performance, low-latency, and linear scaling maximizes data center efficiency
- Protect your data and meet evolving requirements for data security and compliance
- Concurrent block, file, and object protocols for deployment flexibility
- Enterprise design and data integrity validation ensure reliable access to data
- Management via Web GUI, vCenter, Kubernetes, RESTful API, OpenStack, DTMF/Redfish, and Swordfish

proprietary software to be installed and uses standard NVMe, NVMe-oF, Ethernet, and InfiniBand drivers, freeing up host resources for processing and reducing deployment risk.

Scalable & Flexible



The Pavilion HyperParallel Data Platform is capable of providing up to 2.2 PB of capacity in each high density, 4RU chassis. All of the storage can be accessed using NVMe-oF, iSCSI, NFS, or S3, in any combination.

Start with as few as 4 controllers and 18 drives and then grow performance and capacity, linearly and independently, without impacting on-going operations.

The enjoy unlimited scale out across any number of chassis.

Fast & Dense



Give customers an exceptional experience by processing information faster using an high performance and ultra-low latency storage array. Search data 25 times quicker than with a DAS NVMe SSD, speeding time to results.

Disaggregating flash storage from each server eliminates the need to dedicate resources to managing local SSDs. Using servers that don't have to support DAS storage can double the compute density of a rack. No custom software needs to be installed on application servers, enabling them to take full advantage of host processing resources and reduce risk.

Safe & Secure



Protect the SSDs with Pavilion SwarmController™, which leverages multiple controllers in parallel to rebuild a failed SSD at the rate of less than 5 minutes per TB. Get self-healing bit-rot support for data, to assure every process gets uncorrupted data.

Security is a must for banking organizations. Pavilion uses a FIPS-compliant data at rest encryption and ensures the always-on encryption does not impact performance. Meeting government compliance requirements is a fundamental part of the system design. Use consistent snapshots, encrypt those snapshots, and standard backup and restore utilities with the confidence that banking data is safe and secure.

Enterprise Strength & Support



Get end-to-end data integrity, a robust and modular chassis, and redundancy throughout the storage array to protect your banking applications as infrastructures grow. All features come in-the-box, including thin provisioning, snapshots, clones, data at rest encryption and more.

Don't let support concerns prevent the deployment of banking applications. The Pavilion global services team provides 24/7 proactive support and acts as an extension of your IT organization for all applications.

Use the Pavilion Web GUI to manage storage, or integrate with various frameworks, including: vCenter, Kubernetes, RESTful API, OpenStack, DTMF/Redfish, Swordfish, and more.

Unified Storage



Banks have a huge volume of data, but much of it resides in silos. Unify the silos, driving collaboration across workloads. Simultaneously use NVMe/RDMA, NVMe/TCP, iSCSI, NFS (v3, v4, pNFS, RDMA) and S3, in any combination, for all your application needs.

Economical & Global



NVMe SSDs are one of the most expensive components of an application cluster. Scale down flash storage deployed by 2-3X, and save 50% over DAS in terms of \$/GB/sec. Reduce management overhead by eliminating the need for volume managers or file systems.