

## Customer

- Online Reservation Provider

## Industry

- Travel

## Use Case

- Comparison shopping across multiple sub-brands
- Real-time reservations for flights and hotels

## Challenge

- Needed to increase performance, capacity, and throughput, but stymied by existing SAN
- Additional reporting requirements
- Backups SLAs not being met due to capacity needs

## Solution

- Replaced complex SAN with Pavilion HyperParallel Data Platform
- Snapshots provide instant & space-saving copies of reservations data for backup & reporting

## Results

- 300% increase in data searches
- 2X reduction in storage
- 20X reduction in storage footprint, power, and cooling
- 40% decrease in server TCO
- Increased number of reservations processed
- Linear scalability of compute and storage

# Accelerate Online Reservations

This client is the world's largest online travel aggregator handling millions of daily reservations. Their reservation systems collect, move, store and share information from a wide number of databases across the globe. Delivering the right prices, for the right flight or hotel at the right time, in real-time requires a massive amount of parallel processing. Real-time analytics are critical, as is having enough capacity to store and compare against a large inventory of customer options.

## Pavilion HyperParallel Data Platform™

This client reached a critical bottleneck with their existing SAN. To scale capacity with necessary performance a radical architecture change was required. Not only was real-time comparison of pricing required, but new business processes were imposed for detailed reporting on all transactions.

The client looked at replacing SAS-based SSDs with NVMe SSDs for their existing SAN, but found that doing so did not unlock the parallel performance provided by an NVMe SSD, since their SAN provider did not support NVMe-Over-Fabrics. As such, they needed an entirely new approach that allows for scale of bandwidth, capacity and throughput in an elastic fashion.

The client found the Pavilion HyperParallel Data Platform's use of NVMe-oF gave them the same parallel performance as local NVMe SSDs. The Pavilion HyperParallel Data Platform also gave them the same functionality they had with their SAN including thin-provisioning, snapshots/clones, framework integration, encryption, performance monitoring, multi-pathing, and 24/7 proactive cloud-based support.

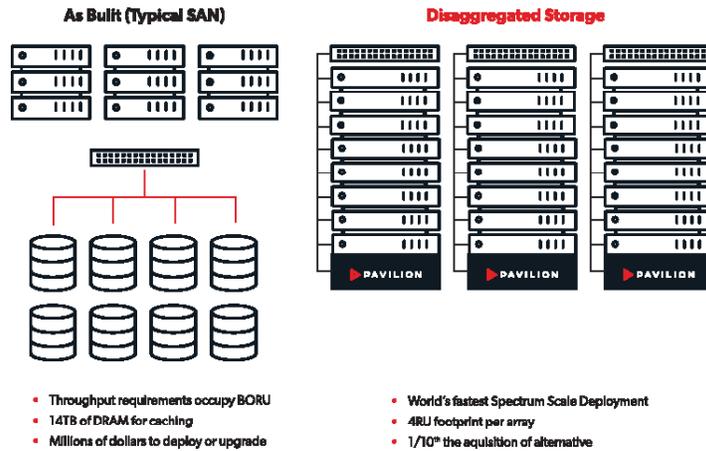
The Pavilion HyperParallel Data Platform delivers up to 120 GB/s throughput, 25µs of latency, and 2.2 PB of storage in a compact 4U form factor. It is the industry's first hyperparallel flash array and it unlocks the parallel performance of NVMe.

The ability to make clones directly from snapshots accelerated backup and reporting operations and eased completion headaches. The client found that expanding their SAN for equivalent performance would cost 25 times more than the Pavilion HyperParallel Data Platform, they also found that the Pavilion solution used 95% less rack space and required less power and cooling. So the customer replaced their SAN with Pavilion. It gave them the bandwidth needed to process feeds from additional sources, further improving their analytics fidelity.

The client used the Pavilion HyperParallel Data Platform's zero-footprint snapshots and clones to make multiple instant and transparent copies of their processes. They shared the snapshot with their existing backup solution. This allowed their backup process to operate in parallel, speeding operations. Their SAN-based solution delayed backup and impacted their reservation operations.

We collect millions of statistics on our web properties each day. SAS SSDs could not keep up. Pavilion future-proofs our storage so that we can optimize our customer experience.

**Director of IT**



## Summary

By using the Pavilion HyperParallel Data Platform, this travel aggregator increased the number of daily reservations. They were able to respond to address their customer's request to have view additional flight and hotel options across a variety of delivery vehicles.

Pavilion worked closely with the client to assure a smooth transition from their legacy SAN environment and provides them with high performance, low latency, and gave them a linear price and capacity scalability. The client found that the Pavilion HyperParallel Data Platform is ideal for media operations.

Operations staff also found that the Pavilion HyperParallel Data Platform's SAN-like management for snapshots, clones, and thin provisioning aligned to the processes they had implemented for the SAN.

## Find Out More

Pavilion shatters customer expectations and resulting organizational outcomes by revolutionizing data processing for modern AI/ML, HPC, Analytics, Enterprise Edge and other data-driven applications. The Pavilion HyperParallel Data Platform, powered by Pavilion HyperOS, delivers unmatched performance and density, ultra-low latency, unlimited scalability and flexibility, providing customers unprecedented choice and control. Learn why Fortune 500 companies and federal government agencies choose Pavilion. Visit [www.pavilion.io](http://www.pavilion.io) or follow the company twitter at <https://twitter.com/PavilionData>