

## 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 HFA
- 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.

## Composed by Pavilion

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 HFA's use of NVMe-oF gave them the same parallel performance as local NVMe SSDs. The Pavilion HFA 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.

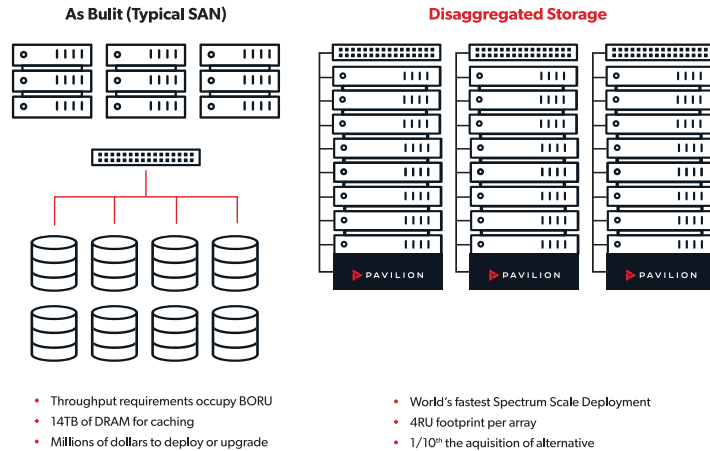
The Pavilion Data NVMe Storage Platform delivers up to 90 GB/s throughput, 40µs of latency, and 1.1 PB of storage in a compact 4U form factor. It is the industry's first hyperparallel flash array and it unlocks the parallel performance of NVMe.

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 HFA, they also found that the Pavilion HFA used 95% less rack space and required less power and cooling. So the customer replaced their SAN with the Pavilion HFA. It gave them the bandwidth needed to process feeds from additional sources, further improving their analytics fidelity.

The client used the Pavilion HFA'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 HFA, 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 HFA is ideal for media operations. Its OpenChoice feature future-proofed their storage solution and saved them production cost by letting them redeploy existing or purchase new NVMe SSDs as their expansion needs arise.

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

### Find Out More

The Pavilion HFA is defining the future of composable disaggregated NVMe of. Our expertise is in simplifying and optimizing NVMe to make the impossible, possible. Taking the infrastructure to the next level, requires the "Midas touch" of proven experts. When storage is business-critical, there's no substitute for the guaranteed performance, functionality, high availability, and professional software support of a Pavilion HFA. We design, implement and deliver a complete solution tailored to the environment. Contact us today to get in touch with our talented team of professionals.