

# Your SAN game: 12 reasons it's time to power-up.

## DATA SHEET

Why your storage and networking upgrades should go hand-in-hand, and why Hitachi Vantara and Brocade represent the global benchmark of how to do it...

### **1** Your SAN is probably struggling to meet today's needs, let alone tomorrow's

... And your legacy storage and networking infrastructure is only hindering performance further.

Given today's short storage innovation cycles, your network probably needs to handle multiple generations and the ability to transition seamlessly between them is critical.

### That makes Brocade Gen 7 Fibre Channel critical too. In:

- Protecting your storage investments
- Accelerating data access
- Easing scalability
- Fast-tracking migration to NVMe and Flash – which need the latest network connections to unlock their true potential
- Delivering 71% faster application response times
- Unleashing the full potential of Hitachi's next-generation storage platforms, with their 100% data availability guarantee
- Eliminating workload bottlenecks
- Smoothing the path to tomorrow's SAN performance

## 2 High risk of downtime and non-compliance

Running unsupported products across your storage networking fabric can create major issues: older platforms weren't designed to handle today's traffic, workloads, and compliance needs. Even 16G or 32G technologies are at risk of failing over time. And even the shortest delays can impact critical application performance. Hitachi and Brocade deliver the storage networking performance and resilience you need to maximize uptime, optimize compliance, and keep your mission-critical apps safe.

## 3 You're likely missing out on valuable insights and diagnostics


You can't manage what you can't measure. So you need full visibility of every asset across your storage network. To rapidly diagnose and resolve the causes of application issues. To meet SLAs. And to enable the fast, accurate analytics critical to application delivery and evolution. With integrated advanced monitoring and diagnostics, Brocade and Hitachi provide such visibility, maximizing performance and insight, accelerating remediation, and ensuring peace of mind. Centralized, open, and automated, management is easier too – so you can spend more time on strategic activities and less time keeping the lights on.

## 4 There's more to NVMe than NVMe

NVMe technology is vital to the immediate future of storage. As is the ability to scale up to more devices, applications, and workloads. But neither is possible without the higher speed and lower latencies required – which means deploying the latest, best networking technology too. In other words, Gen 7 Fibre Channel from Brocade.

## 5 Support renewal is expensive

With Brocade Gen 5 having reached end of life, renewal support pricing has risen by 50%. So upgrading to Gen 7 now means renewal support cost savings, all the networking performance you need to optimize your storage, and deploying the perfect adjunct to Hitachi's unmatched storage prowess.



See how  
**Brocade Gen 7**  
enables the  
autonomous SAN.







## **6** Hitachi VSP demands 32GB networking

Hitachi VSP 5000 and E Series storage arrays deliver all the storage agility and muscle you need, but they need 32GB networking. Brocade Gen 7 FC delivers it – as well as providing NVMeoFC. End to end.

## **7** Automation and analytics

Reducing the number of steps needed, the integrated analytics and advanced automation built into Gen 7 ease and simplify SAN resource deployment, configuration, and management via easy-to-use tools. No more java – all html5.

## **8** Maximum NVMe performance

Gen 7 will help you squeeze maximum value from your NVMe arrays across high-transaction workloads and cuts network latency by a massive 50%.

## **9** Simpler licensing

All optional software licenses are now included (Fabric Vision, ISL Trunking, Integrated Routing, FICON CUP, Extended Fabrics) for the G720.



## 10 **The Brocade Network Advisor to Brocade SANnav uplift**

With the complexity of managing storage fabrics increasing as workloads, devices, and applications do the same, advanced automation is becoming essential. For accelerating analytics and troubleshooting, reducing administrative burden, and increasing visibility.

Also simplifying management through self-optimizing, self-learning, and self-healing to deliver a truly autonomous SAN, this what Brocade SANnav delivers – root cause analysis, critical traffic prioritization, and full device, protocol, I/O, and application monitoring.

### **Why Upgrade to Brocade SANnav?**

- Brocade Network Advisor reaches End of Support in February 2022
- Brocade Network Advisor is not compatible with Gen 7
- Brocade SANnav is complementary to Hitachi OpsCenter
- ... With end-to-end almost real-time troubleshooting capabilities
- All html5 interface
- Increased operational efficiency – 75% less time spent on inventory tasks
- Automated data collection and reporting – 300x more responsive operations
- Troubleshooting and actionable insights accelerated by 50%

## 11 **Extension products**

WAN Connections are expensive and maintaining the bandwidth, quality, and security of those connections drive costs up. Brocade Extension switches can provide a cheaper, lower quality connection, while using less bandwidth, so customers can deliver data with high performance and high availability no matter the distance with compression bandwidth management and always on encryption at a much lower cost.



## 12 **Simply better speeds & feeds**

No competitive solutions offer nearly the same levels of performance and resilience Hitachi and Brocade can:

- 50X more throughput over distance
- 1Gb ethernet switching scalable to 2.5Gb, 10Gb, and 40Gb
- 16Gb Fibre Channel interfaces
- ... With 32Gb and 1/10/40Gb available via the SX6 Extension Blade
- Built-in hardware compression technology typically yielding 4:1 compression
- Increased bandwidth and throughput to help meet backup time windows
- Built-in strong 256-bit AES hardware encryption
- Flexible bandwidth management – perfect for shared WAN connections

### **We Are Hitachi Vantara**

We guide our customers from what's now to what's next by solving their digital challenges. Working alongside each customer, we apply our unmatched industrial and digital capabilities to their data and applications to benefit both business and society.

### **Hitachi Vantara**



Corporate Headquarters  
2535 Augustine Drive  
Santa Clara, CA 95054 USA  
[hitachivantara.com](http://hitachivantara.com)

Contact Information  
USA: 1-800-446-0744  
Global: 1-858-547-4526  
[hitachivantara.com/contact](http://hitachivantara.com/contact)

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## Ready to turn up the power?

Embrace the future of storage networking and tomorrow's performance, availability, resilience, simplicity, and security with the global benchmark in the discipline: Hitachi Vantara and Brocade.

**Hitachi and Brocade. Alone exceptional, together unrivalled.**