

All-Flash Buyer's Guide



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5 Reasons Global Enterprises Select Hitachi Data Systems for All-Flash Solutions

To thrive in today's digital economy, organizations need a more advanced IT infrastructure that can handle data faster and more efficiently. Companies are turning to all-flash solutions to accelerate business decisions, enhance IT agility and improve customer satisfaction.

Our All-Flash Buyer's Guide will help you make more informed decisions when selecting an all-flash partner. Not every all-flash solution provides consistent performance, efficiency and simplified management. These capabilities are all necessary to achieve the comprehensive technical and business benefits offered by a shift to all-flash storage.

All-Flash Advantages:

1 Improve Scalability for Growth.



2 Maximize Data Reduction Technology.



3 Confidently Manage All Workload Types.



4 Reduce Disruption for Higher Performance.



5 Achieve Consistent Long-Term Performance.





1 Improve Scalability for Growth



A flash array can quickly fix performance problems, but enterprises can also outgrow their flash system if they don't develop a strategic plan that takes this into account. As a result, you may have silos of information that can't be easily shared.



Hitachi provides the tools required to successfully plan an all-flash investment to scale over time, without creating silos of information. If you have multiple all-flash products already, Hitachi can virtualize these to build a pool of all-flash capacity that is easy to manage and eliminates wasted capacity, so your all-flash solution grows seamlessly with your infrastructure.



2 Maximize Data Reduction Technology



Data reduction technology reduces storage demands while saving space and money across all tiers. But most data reduction technologies come with a performance tradeoff. The processing power needed to run data reduction algorithms takes away from the overall system ability to move data at fast response times.



Hitachi offers solutions designed for specific workload needs that minimize performance issues. VSP F series manages data reduction directly on patented flash modules, rather than the storage controller, for consistent performance and data reduction. This approach eliminates the bottlenecks that other flash systems experience when data reduction technologies are running. Alternatively, Hitachi Flash Storage systems allow IT to selectively disable data reduction services to accommodate high volume when maximum performance is required.

3 Confidently Manage All Workload Types



Many all-flash vendors have solutions that work well with specialized workloads, but not all vendors can cover every workload.



Unlike many one-size-fits-all vendors that sell all-flash systems, Hitachi offers both hybrid-flash (HF) and all-flash (AF) solutions for every need and application for large and small projects. These solutions include:

- ✓ General purpose and consolidation: Hitachi Virtual Storage Platform (VSP) G series (HF); VSP F series (AF).
 - ✓ High-availability clusters: VSP G series (HF).
 - ✓ Large databases (>150TB): VSP G series (HF), VSP F series (AF).
 - ✓ Small databases (<200TB): VSP G series (HF), Hierarchical File System HFS (AF).
 - ✓ Messaging: VSP G series (HF), VSP F series (AF).
 - ✓ Server virtualization: VSP G series (HF), VSP F series (AF).
 - ✓ Virtual desktop infrastructure: HFS (AF).
- High-performance computing: VSP G series (HF), HFS (AF).
Network Attached Storage NAS and file sharing: VSP G series (HF), VSP F series (AF).

Additionally, Hitachi's award-winning VSP G1000 can be configured as an all-flash solution that delivers up to 4M IOPS.



4

Reduce Disruption for Higher Performance



Flash technology is simpler and less problematic than mechanical disks, so it is expected to cause less disruption, right? Unfortunately, many flash solutions can be very disruptive. It's important to know which ones to avoid.



Backed by our industry-leading 100% data availability guarantee, Hitachi offers all-flash solutions designed to reduce disruption in ways that improve productivity with faster performance and more uptime.

We also offer solutions that provide nondisruptive data migrations, active-active clusters and zero recovery point and time objective (RPO and RTO) failovers.

5 Achieve Consistent Long-Term Performance



The ideal all-flash solution delivers consistently high performance throughout its lifetime. However, with many all-flash solutions, when they fill and overwrite data, performance begins to suffer.



Hitachi offers hybrid and all-flash solutions designed to deliver maximum performance, over time. From patented innovations in Hitachi Accelerated Flash to selectable data services, we deliver solutions that meet your specific application requirements.

Hitachi also offers ecosystem-monitoring tools that analyze and determine hot spots to proactively identify and resolve issues that can affect performance, before it happens.

Optimize Your Storage Infrastructure With All-Flash Solutions From Hitachi

In today's digital economy, the need for faster IT performance to stay competitive and satisfy customers continues to grow. Adopting all-flash solutions can meet these performance demands. Now is the time to consider Hitachi as your long-term strategic partner for fast-evolving all-flash technology.

Hitachi Data Systems is an acknowledged leader in storage, servers and networks, including converged and hyperconverged infrastructure solutions, and we already support the world's largest all-flash production environment. Hitachi's long-term commitment and investment in developing next-generation flash technologies is proven by its impressive 350 flash-related patents, more than any other vendor in the industry.



Contact our flash experts today. They can assess your storage challenges and tailor custom flash solutions to meet your changing needs.

 **Hitachi Data Systems**

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