

Next Generation HPE Nimble Storage Flash Arrays

With HPE Store More Guarantee for All Flash Arrays

What's new

The new Next Generation HPE Nimble Storage All Flash Arrays:

- Come with HPE Store More Guarantee, so your customers can buy with confidence and deploy the most efficient all-flash array¹
- Are Storage Class Memory and NVMe Ready
- Have Next Generation hardware that delivers up to 220%² better price-performance balance

The new HPE Nimble Storage Adaptive Flash Arrays offer **inline always-on deduplication**, making them the industry's most efficient hybrid arrays.³

Why it matters

HPE Nimble Storage is a radically simple unified family of All Flash, Adaptive Flash, and Multicloud storage. The Next Generation portfolio brings with it a synergy of HPE Storage PoV qualities: **Predictive, Cloud ready, and Timeless**. With HPE InfoSight and HPE Cloud Volumes already spearheading the Predictive and Cloud ready strategies, the HPE Nimble Storage portfolio now benefits customers with a Timeless promise.

The HPE Store More Guarantee, available for all HPE Nimble Storage All Flash Arrays, delivers the most effective capacity per raw TB of flash compared to other all-flash arrays. Customers can rest easy about how much data can be stored after accommodating for overhead and data reduction.

By being **SCM/NVMe ready**, our All Flash platform displays the HPE commitment to future-proofed storage platforms as part of the HPE Timeless program. The platform is designed for customers to get seamless non-disruptive upgrades to future technologies.

Product overview

HPE Nimble Storage All Flash Arrays:

AF series

- **Getting started:** The new AF20Q and AF20 replace the AF1000 as the entry-level models and start at 6 TB raw capacity, up from 5 TB.
- **Best price-performance:** AF40 and AF60 deliver 220% better price-performance when compared to the AF3000, AF5000, and AF7000. This doubles the price-performance in this market segment.
- **Screaming fast:** The AF80 delivers 4 PB effective capacity at sub-ms latency, extending the high-end performance of the AF9000.

Table 1. AF series overview

Old model	New model	Effective capacity
AF9000	AF80	Up to 4 PB
AF7000	AF60	Up to 2 PB
AF5000	AF40	Up to 682 TB
AF3000		
AF1000	AF20	Up to 168 TB
	AF20Q	Up to 128 TB

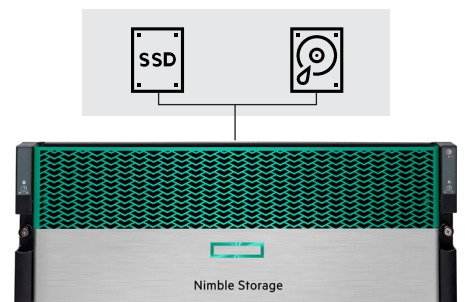
HPE Nimble Storage Adaptive Flash Array: HF series—a single hybrid series in place of the CS and SF series

- **Getting started:** The HF20H and HF20 start at 11 TB raw capacity, replacing the CS1000 and CS1000H.
- **Scale deep:** The HF20C is the new deep-scale model, which replaces CS1000 and CS1000H, and provides up to 2 PB effective capacity.
- **Best price-performance:** The HF40 provides up to 150% better price-performance, replacing the CS3000 and CS5000 with the best price-performance in the series.⁴
- **Screaming fast:** The HF60 extends the high-end performance of the CS7000 by up to 65%.

Note: Inline always-on deduplication is available in HF20, HF20H, HF40, and HF60 models.

Table 2. HF series overview

Old model	New model	Effective capacity
CS7000, SF300	HF60	Up to 5 PB
CS5000, CS3000, SF100	HF40	Up to 2 PB
CS1000 and CS1000H	HF20C	Up to 2 PB
	HF20	Up to 845 TB
	HF20H	Up to 821 TB



¹ HPE Store More Guarantee, 2018.

^{2,4} Based on internal HPE product comparisons.

³ Based on an HPE competitive evaluation of leading hybrid flash arrays assuming triple parity data protection with inline deduplication, March 2018.



Quick reference card

For HPE and Channel Partner internal use only.

Resources

[HPE Nimble Storage All Flash Arrays QuickSpecs](#)

[HPE Nimble Storage Adaptive Flash Arrays QuickSpecs](#)

[HPE Store More Guarantee Solution Brief](#)

[HPE Store More Guarantee Infographic](#)

[HPE Nimble Storage Sales Briefcase](#)

[HPE Storage Master Sales Briefcase
Internal, Partner](#)

Trainings

[Next Generation HPE Nimble Storage Overview:
Internal, Partner](#)

[Learn about the industry's most effective capacity
guarantee: Internal, Partner](#)

[Inside sales training for Next Generation
HPE Nimble Storage: Internal, Partner](#)

How to sell/Product differentiation

HPE Nimble Storage All Flash Arrays

The Next Generation All Flash Array platform is designed to take advantage of SCM, a new class of storage media, and NVMe, a high-performance communications protocol.

All Flash Arrays offer:

- Sheer performance and scalability
 - Scale-up and scale-out
 - Always-on data services
 - Quality of service
- 33%–66% less TCO⁵
 - 20% more usable capacity⁶
 - Backup/DR at minimum cost
- Absolute resiliency
 - **Guaranteed 6-nines availability**

HPE Nimble Storage Adaptive Flash Arrays

The industry's most efficient hybrid flash array with inline always-on deduplication, HPE Nimble Storage Adaptive Flash Arrays are specifically built for:

Hybrid flash workloads: Adaptive Flash Arrays for primary workloads where cost-efficient flash performance is important while ensuring price-performance balance.

Adaptive Flash Arrays offer:

- Performance and scalability
 - Scale-up and scale-out
 - Quality of service
- Industry-leading hybrid architecture
 - Write to disk at flash speeds
 - 5X lower footprint⁷
 - Inline, variable deduplication and compression
- Absolute resiliency
 - Guaranteed 6-nines availability

Secondary flash workloads: Secondary flash arrays for backup and disaster recovery, allowing customers to put their backup data to work. Here, Adaptive Flash Arrays offer:

- Ability to run real workloads as secondary storage
 - Use backups for development/testing and support
 - Zero copy clones
 - Inline dedupe and compression
- Enhanced data protection
 - Near-instant restore
 - Near-instant DR
 - Fast verification
- Ability to simplify operations
 - HPE InfoSight
 - Validated and integrated with Veeam
 - Guaranteed 6-nines availability

Product positioning in HPE portfolio

HPE Nimble Storage All Flash Arrays

(AF series) are suitable for high performance, latency-sensitive workloads that require critical flash performance.

HPE Nimble Storage Adaptive Flash Arrays

(HF series) are optimized for performance, cost per gigabyte, backup, and DR while providing flash acceleration for secondary applications such as development/testing and analytics. Two primary use cases for Adaptive Flash arrays include:

- Mainstream and mixed primary workloads, and wherever the customer is concerned about cost and price-performance balance.
- Secondary storage that is optimized for high-performance backup and DR, with the performance to run other applications such as development/testing and analytics.

Learn more at [HPE Nimble Storage](#)

⁵ Based on internal HPE product comparisons.

⁶ HPE competitive team studies, March 2018.

⁷ Results taken from tests conducted by HPE Nimble Storage competitive team, March 2018.

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