

HPE storage substantiation

HPE GreenLake for Block Storage

Substantiation

The industry's first storage as a service that offers self-service and 100% availability guarantee built-in for mission critical environments.

Based on analysis of known industry block storage-as-a-service offerings available as of March 11, 2022 that are offered self-service.

HPE GreenLake for Block Storage with HPE Alletra Storage MP

Substantiation

The industry's first disaggregated, scale-out block storage with a 100% data availability guaranteed

Based on analysis of known industry block storage-as-a-service offerings available as of March 28, 2023 that are offered self-service.

66% better price performance

Based on HPE net pricing and internal performance testing; compared to HPE 3PAR 8200 Storage

2.3x faster performance

Based on HPE internal testing; compared to HPE Primera 630A Storage

100% Data Availability Guarantee

"[Uptime guarantees that deliver](#)," April 2023

Primary claims for HPE Alletra and Data Services Cloud Console

Substantiation

99% operational time savings

Comparison of infrastructure lifecycle management of HPE Alletra versus ESG Market Research, April 2021

100% Availability Guarantee for HPE Alletra 9000

"[Uptime guarantees that deliver](#)," April 2023

99.9999% Availability Guarantee for HPE Alletra 6000

"[Uptime guarantees that deliver](#)," April 2023

40% IT resource savings

A commissioned study conducted by Forrester Consulting, [The Total Economic Impact of HPE GreenLake](#), June 2020

HPE Alletra 9000 delivers best-in-class performance density with over 2 million IOPS in just 4U

Based on HPE internal testing of 8 KiB random reads TPVV RAID 6

HPE Alletra 9000 is certified for an industry best 96 SAP HANA® nodes in just 4U

Based on HPE internal analysis of publicly available data on the scalability of competitive mainstream arrays, June 2021

HPE Alletra 6000 delivers up to 3x faster performance than previous HPE Nimble Storage All Flash Arrays

Based on HPE internal testing, June 2021

Supporting claims for HPE Alletra and Data Services Cloud Console

Substantiation

93% of IT decision-makers seeing storage and data management complexity impeding digital transformation

ESG Data Management Survey, April 2021, commissioned by HPE

82% of IT decision-makers seeing storage management at scale as a key challenge

ESG Data Management Survey, April 2021, commissioned by HPE

88% of IT decision-makers looking to bring cloud-native apps on-premises

ESG Data Management Survey, April 2021, commissioned by HPE

Primary claim for HPE Primera	Substantiation
HPE delivers the world’s most intelligent storage for mission-critical apps	Note this claim is subjective. The following is the evidence and/or reasoning that supports our view, as well as the internal research that shows certain customer outcomes that demonstrate how our storage products are most intelligent for mission-critical apps.

Supporting claims for HPE Primera	Substantiation
Up to 93% reduction in time spent to deploy, manage, and scale storage	Based on HPE internal testing of HPE 3PAR versus HPE Primera.
100% availability guaranteed	HPE Brochure: HPE 100% Availability Guarantee , August 2021.
Up to 1.5M IOPS	Based on HPE internal testing.
Up to 44 GB/s	Based on HPE internal testing.
Up to 115% faster performance	Based on HPE internal testing in an Oracle® environment at baseline of HPE 3PAR versus HPE Primera.
Up to 233% change in throughput	Based on HPE internal testing of HPE 3PAR versus HPE Primera.

Primary claim for HPE 3PAR and HPE Nimble Storage	Substantiation
HPE delivers the world’s most intelligent storage	Note this claim is subjective. The following is the evidence and/or reasoning that supports our view, as well as the internal research that shows certain customer outcomes that demonstrate how our storage products are most intelligent. Brochure: HPE InfoSight—Artificial intelligence for autonomous infrastructure , September 2021.

Primary claim for HPE Alletra dHCI	Substantiation
HPE Alletra dHCI is the industry’s only disaggregated HCI powered by artificial intelligence.	Note this claim is subjective. The following is the evidence and/or reasoning that supports our view, as well as the internal research and external opinion that demonstrate the point of view. HPE Alletra dHCI—Extending the Hyperconverged Experience to Workloads with Unpredictable Growth, Technical Validation by ESG , June 2019. HPE Solution Brief , August 2022.
HPE Alletra dHCI is made to do more than other traditional HCI and delivers a better HCI experience without any of the tradeoffs providing 10x faster application performance, 4x more reliability for business-critical applications, and 5x more efficient for better economics.	Based on HPE internal testing and comparing Dell EMC VxRail versus HPE Alletra dHCI with 100 TB effective capacity, ability to withstand a minimum of two drive failures, and triple mirroring.
HPE Alletra dHCI works for any virtual machine	HPE Alletra dHCI does not have technical restrictions on the virtual machine it can support. HPE Nimble Storage QuickSpecs , HPE Alletra dHCI QuickSpecs .
Apps and data can move freely across all clouds	HPE Cloud Volumes enables bidirectional data mobility between HPE Alletra dHCI and the public cloud. HPE does not charge any egress fees when restoring data from HPE Cloud Volumes on-premises. HPE Cloud Volumes customers can also leverage Amazon Web Services, Google Cloud Platform™, and Microsoft Azure simultaneously without any lock-in.



Supporting claims for HPE InfoSight (for HPE Alletra, HPE 3PAR, HPE Nimble Storage, and HPE SimpliVity)	Substantiation
Most advanced AI for infrastructure	Brochure: HPE InfoSight—Artificial Intelligence for autonomous infrastructure , September 2021.
1250 trillion data points collected by HPE InfoSight	Based on the number of data points collected and processed since 2011 from HPE Nimble Storage and HPE 3PAR Storage arrays.
1.58 million hours saved in P1 cases resolved	Based on the volume of critical issues proactively resolved for customers. Analyst White Paper by ESG: Assessing the Financial Impact of HPE Nimble Storage Powered by HPE InfoSight , May 2019.
86% issues automatically opened and resolved	HPE Business White Paper: Redefining the standard for system availability , August 2021.
99.9999% guaranteed availability	Brochure: HPE Get 6-Nines Guarantee , September 2021.
79% lower storage operational expenses	Analyst White Paper by ESG: Assessing the Financial Impact of HPE Nimble Storage Powered by HPE InfoSight , May 2019.
54% of problems resolved are outside of storage	Based on an internal study of HPE Nimble Storage installed base , August 2021.
No Level 1 or 2 support; Level 3 response in < 1 minute on average	Analyst White Paper by ESG: Assessing the Financial Impact of HPE Nimble Storage Powered by HPE InfoSight , May 2019.
AI-driven automation delivers up to 85% improvement in IT efficiency	Analyst White Paper by ESG: Assessing the Financial Impact of HPE Nimble Storage Powered by HPE InfoSight , May 2019.
<ul style="list-style-type: none"> • 79% lower storage operational expenses • 73% fewer trouble tickets in the environment • 85% less time spent resolving storage-related trouble tickets • 69% faster time to resolution for events that necessitate Level 3 support 	Analyst White Paper by ESG: Assessing the Financial Impact of HPE Nimble Storage Powered by HPE InfoSight , May 2019.



Claim substantiation

Primary claims for HPE GreenLake for File Storage

Substantiation

80x faster than legacy NAS for read operations	Accelerating A.I. Workloads at Lightspeed , Reference Architecture white paper, January 2021 and Meet Your Need for Speed with NFS blog, October 2021, both by VAST Data. The FIO benchmark test showed 174 GB/sec, and a NAS NFS client delivers 2 GB/sec. HPE GreenLake for File Storage is built on VAST Data software and the HPE Alletra Storage MP hardware platform, which has RDMA for fast performance and can scale beyond 200 GB/sec of read performance.
100s of GB/sec of throughput and beyond for read performance	The per enclosure performance has been characterized and certified, and it is part of the configuration and sizing tools for HPE GreenLake for File Storage, which achieves 100s of GB/sec by scaling data and compute enclosures.
Designed for 99.9999% availability	HPE GreenLake for File Storage is built on the HPE Alletra Storage MP hardware platform and is fully redundant with no single point of failure. Hardware expansion and software upgrades do not cause interruption of connectivity to file shares. The six 9s metric for VAST Data software is substantiated by the " Ensuring Storage Reliability at Scale " white paper, February 2022.
Data reduction: Up to 2:1 for life sciences data; 3:1 for pre-reduced backups, pre-compressed log files, and HPC and animation data; and 8:1 for uncompressed time-series data.	These ratios are measured results from hundreds of VAST Data customer data sets, and they are documented in the " Universal Storage Explained " electronic white paper in the "A Breakthrough Approach to Data Reduction" section, which is current as of March 2023. Data reduction is a software feature with no dependencies on HPE Alletra Storage MP hardware.

Supporting claims for HPE GreenLake Day for Storage April 04, 2023

Substantiation

HPE GreenLake can help you radically simplify data management.	See substantiation for HPE InfoSight delivers the most advanced AI for infrastructure
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