

Dell PowerMax vs. HPE Alletra 9000

Dell PowerMax 2500 / 8500

World's most secure mission critical storage¹

Security includes Hardware Root of Trust, Secure Boot Chain of Trust, security anomaly detection, RBAC, and FIPS 140-2 validation.

Massive consolidation

Block, File, vVols, Mainframe, & IBMi storage.

Multi-Controller, scale-out and up

Up to 16 active nodes, 576 CPU cores and 384 NVMe SSDs. Up to 256 front end host connectivity ports².

Fast Dynamic Fabric interconnect

Scale performance and capacity independently over fast 100Gb NVMe InfiniBand, max node count not required for max capacity. Any node to any drive.

High Efficiency Trusted data services

Global inline data reduction, available with 4:1 DDR guarantee for Open Systems, 3:1 for mainframe³. Simultaneous active/active metro sync replication with 3rd site async.

NVMe/TCP host connectivity with auto discovery

Achieve great performance with NVMe/TCP and the industry's first automated end-to-end NVMe/TCP deployment⁴ utility for storage resource automation. Dell SmartFabric storage Software (SFSS) for NVMe/TCP provides automated discovery.



HPE Alletra 9000

Lacks some security features

Security includes FIPS 140-2 validation and RBAC. No Hardware Root of Trust, Secure Boot Chain of Trust, or security anomaly detection.

Limited consolidation

No Mainframe or native IBMi, File services requires an external gateway server adding costs and complexity.

Much less scalability than PowerMax

Only up to 4 active nodes, 160 CPU cores, 240 NVMe SSDs. Up to 48 front end host connectivity ports.

Mixed interconnect

Combo of 32Gb PCIe & 100GbE NVMe RDMA. Max node count required for max capacity. Cluster interconnect transfers data between nodes.

Data services that slow performance

Inline data reduction, available DRR guarantee varies per workload. No mainframe support. Active/active metro sync replication, active/standby with 3rd site async.

No support for NVMe/TCP

Support for NVMe/FC but no support for NVMe/TCP.

¹ Based on Dell internal analysis of cybersecurity capabilities of Dell PowerMax versus cyber security capabilities of competitive mainstream arrays supporting open systems and mainframe storage, February 2022.

² Based on PowerMax 8500.

³ Storage Data Reduction Guarantee: Requires customer signature and purchase of ProSupport Plus or ProSupport with Mission Critical. Applicable products include All-Flash Storage products only. See [Terms and Conditions](#).

⁴ Based on Dell analysis comparing primary PowerMax NVMe/TCP tool (SFSS) usages vs competitive storage solutions, March 2022.