Hewlett Packard Enterprise

HPE MSA 2040 SAN Storage

Disk Storage Systems

What's new

- Introducing two new drives: the HPE MSA 900GB 12G SAS 15K SFF ENT HDD, and the HPE MSA 4TB 12G SAS 7.2K LFF MDL SED.

Overview

Changing storage needs for server customers now requires greater levels of performance and functionality at a lower cost of ownership. The next generation HPE MSA 2040 Storage arrays raises the bar & uniquely addresses HPE ProLiant customers' shared storage and data protection needs, reduces TCO while dramatically increasing performance using technologies such as Solid State Drives, Snap and Volume copy, Replication and SEDs. The MSA 2040 Storage arrays are positioned to provide an excellent value for customers needing increasing performance to support initiatives such as consolidation and virtualization. The MSA 2040 delivers this performance by leveraging new

controller architecture with a new processor, four ports with 4GB cache per controller & using drive technologies such as SSDs. The MSA 2040 Storage ships standard with 64 Snapshots and Volume Copy enabled for increased data protection and allow replication with optional Remote Snap software between arrays (FC or iSCSI only).

Features

Simple: Flexible Architecture, Easy to Setup, Easy to Manage

HPE MSA 2040 Storage deploys single or dual controllers depending on high-availability and budgetary requirements.

Select disk enclosures with Large or Small Form Factor drives –choice of High-performance Solid State Drives, Enterprise-class SAS or SAS Midline drives or Self-Encrypting Drives (SED) based on application, performance and budget needs.

The integrated setup and management tools for MSA are easy to manage for HPE ProLiant/BladeSystem IT managers.

Fast: MSA 2040 Sets New Standards for $/IOPS in Entry SAN

HPE MSA 2040 Storage has a high-performance Converged SAN controller and SAS controller offer 4x the performance of most other entry-level SAN arrays.

4-port Converged SAN controller supporting Fibre Channel and iSCSI and a SAS Controller with 4GB Cache translating into better application response time and ability to support more virtualized environments.

SSD support with integrated "wear gauge" helps improves application performance and allows customers to reduce their operating costs by reducing foot prints and power consumptions.

Self-Encrypting Drives (SEDs) designed to safeguard critical personal and business information and to comply with regulatory mandates.

Futureproof: 2x the Bandwidth and the First Entry SAN with 16 Gb FC

HPE MSA 2040 Storage has the options of 8 Gb/16 Gb FC, 1 Gb/10GbE iSCSI and 12 Gb SAS to match the configuration needs of infrastructure.

The 4th generation of MSA's unique Data-in-Place upgrades provides investment protection.

Host ports upgradeable by SFPS (8 Gb/16 Gb FC) or (1 GB/10GbE iSCSI) allows customers to manage their total cost of ownership lower.

ENERGY STAR Certified: MSA 2040 features Increased Power with Increased Power Efficiency

ENERGY STAR certified power supplies will lead to energy consumption efficiencies translated into savings or regulatory rebates for customers.

Technical specifications   HPE MSA 2040 SAN Storage

Capacity	768 TB Maximum Including expansion, depending on model
Drive description	(199) SFF SAS/MDL SAS/SSD or (96) LFF SAS/MDL SAS Maximum including expansion, supported, depending on model
Host interface	16 Gb/8 Gb Fibre Channel (4) Ports per controller 1 GbE/10GbE iSCSI (4) Ports per controller 12Gb/sec SAS (4) Ports per controller Supported
Storage controller	(2) MSA 2040 SAN Controller (2) MSA 2040 SAS Controller Supported
Storage expansion options	HPE MSA 2040 LFF Disk Enclosure or D2700 2.5-inch disk enclosure or the HPE MSA Dual I/O DC Power Carrier Grade SFF (2.5in) Drive Enclosure
Clustering support	Windows, Linux, HP-UX, OpenVMS
SAN backup support	Yes
Systems Insight Manager support	Yes
Compatible operating systems	Microsoft Windows Server 2012 Microsoft Windows 2008 Microsoft Windows Hyper-V HP-UX Red Hat Linux SUSE Linux VMware ESXi 5.x VMware ESXi 6.x Detailed information available at: http://www.hp.com/storage/spock
Form factor	2U
Warranty - year(s) (parts/labor/onsite)	3/0/0

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.

Operational Services

- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.

- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.

- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.

- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

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