



HPE MSA 2052 Storage

HPE MSA Storage has been the industry leading entry fibre channel SAN platform for the past eight years¹ with over 500,000 storage systems sold worldwide. Hewlett Packard Enterprise now introduces the fifth generation HPE MSA platform with HPE MSA 2052 Storage system that provides 2X more performance than the previous generation.² HPE MSA 2052 hybrid flash model performs in excess of 200,000 IOPS, and saves 40% with the all-inclusive software suite and 1.6 TB of flash capacity included.

The HPE MSA 2052 Storage system keeps your business running with expanded data protection features. New virtualized snapshot technology makes data protection and instant recovery a snap. Remote replication with Fibre Channel (FC) or iSCSI supports affordable disaster recovery.

HPE MSA 2052 allows you to grow flexibly now and into the future. Customers can start small and scale as needed with any combination of SSD, Enterprise, or Midline SAS drives.

The latest HPE MSA array features two high-performance controllers with support for the industry's latest Fibre Channel and iSCSI host interfaces. HPE MSA 2052 delivers midmarket features to entry SAN customers wanting to utilize the latest hybrid flash technologies. HPE MSA 2052 is simple to deploy and simple to manage.

Key features and benefits

Affordable application acceleration

- HPE MSA 2052 performs in excess of 200,000 IOPS.
- HPE MSA 2052 delivers 2X more performance than the previous generation HPE MSA 2042.
- Customer can save 40% on HPE MSA 2052 with all-inclusive software and 1.6 TB of SSD capacity is included.

Advanced data services with no experience required

- HPE MSA 2050 is easy to install, easy to use, easy to maintain—no storage expertise necessary.
- Automated tiering dynamically responds to workload changes, so you don't have to.

Keep your business running with expanded data protection features

- New virtualized snapshot technology makes data protection and instant recovery a snap.
- Remote replication with FC and iSCSI supports affordable disaster recovery.

Grow flexibly now and into the future

- Data-in-place upgrades protect drive investments and mitigates risky data migrations.
- Customers can start small and scale as needed with any combination of SSD, Enterprise, or Midline SAS drives.

¹ IDC WW Quarterly Enterprise Storage Systems Tracker, 4Q16, based on vendor revenues.

² Based on HPE internal study, MSA 2052 hybrid flash model delivers 2x more performance than previous generation, May 2017.

Technical specification



HPE MSA 2052 Storage

Drive description	Up to 192 SFF SSD/SAS/MDL SAS or 96 LFF SSD/SAS/MDL SAS maximum including base array and expansion, depending on model
Max. drive type	10 TB 12G 7.2K LFF dual-port MDL SAS HDD 1.8 TB 12G 10K SFF dual-port SAS HDD 2 TB 12G 7.2K SFF dual-port MDL SAS HDD 3.2 TB SFF SSD
Max. raw capacity	Supported 614 TB SFF/960 TB LFF maximum raw capacity Including expansion, depending on model
Storage expansion options	HPE MSA 2050 LFF Disk Enclosure HPE MSA 2050 SFF Disk Enclosure
Host interface options	8 Gb/16 Gb FC 8 ports per system or 1GbE/10GbE iSCSI 8 ports per system
Storage controllers	2 controllers per system supported included
SAN backup support	Yes
RAID levels	1, 5, 6, 10
HPE Systems Insight Manager support	Yes
Compatible operating systems	Microsoft® Windows Server® 2016 Microsoft Windows Server 2012 VMware® HP-UX Red Hat® Enterprise Linux® SUSE Linux Detailed information available at hpe.com/storage/spock
Clustering support	Windows®, Linux, HP-UX
Form factor	2U base array, 2U LFF or SFF disk enclosures
Warranty (parts/labor/on-site)	3/0/0
Warranty and included services	3-year parts only next business day, no labor or on-site support Includes 3 years 9x5 telephone support, and rights to new versions of firmware

HPE MSA software and data services

HPE MSA Performance Automated Tiering

HPE MSA 2052 ships standard with Performance Tiering enabled. HPE MSA Performance Automated Tiering engine moves data between available tiers based on the access characteristics of that data. Frequently accessed pages migrates to the highest available tier delivering improved I/Os to the application. Another feature of HPE MSA tiering engine is Archive Tiering where cold or less frequently accessed data can be moved to lower performance tiers. Pages are migrated between tiers automatically to enhance performance, and reduce operational expenses.

HPE MSA Snapshot Software

HPE MSA 2052 ships standard with 512 snapshots enabled. HPE MSA Snapshot Software enables increased data protection by creating recovery points for your data, taking a picture of what your data was at the time of the snapshot. The snapshots are then maintained even as data continues to change. In the event of a failure, you can recover data to any previous snapshot. Snapshots are a great complement to tape or disk backup strategy.

HPE MSA Volume Copy Software

HPE MSA 2052 ships standard with Volume Copy enabled. HPE MSA Volume Copy Software makes a physical copy of the data to another set of disks within the same array. One of the benefits of HPE MSA Snapshot and HPE MSA Volume Copy Software is the ability to mount a snap or volume copy to another server for backup, application testing, or data mining. HPE MSA Volume Copy Software is controller based, meaning no host resources are used. It provides a physical copy of data from one LUN to another with no server performance impact.

HPE MSA Remote Snap Software

HPE MSA 2052 ships standard with HPE MSA Remote Snap Software enabled. HPE MSA Remote Snap Software is storage based asynchronous replication technology that provides both local and remote replication on HPE MSA 2050 arrays. HPE MSA Remote Snap functionality is based on existing Snapshot technology. Supporting both Ethernet (iSCSI) and FC interconnects provides flexible options to your application environments.

HPE StoreEasy 3000 Gateway Storage

An HPE StoreEasy 3000 Gateway Storage can add file, print, iSCSI, and manage hosting services to an HPE MSA 2050 array. For more information, visit hpe.com/storage/storeeasy.

Resources

QuickSpecs

[HPE MSA 2052 Storage](#)

HPE Factory Express

HPE Factory Express offers configuration, customization, integration, and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped, and deployed.

HPE Factory Express offers service packages for simple configuration, racking, installation, complex configuration, and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through HPE Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers, as well as the HPE MSA family of storage systems.

Customer Technical Training

The job responsibility of a storage administrator has evolved to one that needs to adapt to changes quickly. Companies need the right people with the right skills and expertise to manage immense volumes of data, making certain their teams maintain high levels of staff motivation and productivity. They should be able to view and manage storage ecosystems holistically and operate all components together—from services, applications, devices, and infrastructure.

HPE Financial Services

Optimize your IT investment strategy with new ways to acquire, pay for, and use technology, in lock-step with your business and transformation goals. hpe.com/solutions/hpefinancialservices

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HPE Pointnext

HPE Pointnext leverages our strength in infrastructure, partner ecosystems, and end-to-end lifecycle experience, to accelerate powerful, scalable IT solutions to provide you the assistance for faster time to value. HPE Pointnext provides a comprehensive portfolio including Advisory and Transformational, Professional, and Operational Services to help accelerate your digital transformation.

Operational Services

• HPE Flexible Capacity

With **HPE Flexible Capacity**, you get the speed, scalability, and economics of the public cloud in the privacy of your data center. Gain the advantages of the public cloud—consumption-based payment and rapid scalability without worrying about capacity constraints. Reduce the heavy lifting needed to operate a data center. And retain the advantages that IT provides the business, such as control, security, and others. Deliver the right user experience, choose the right technology for the business, manage privacy and compliance, and manage the cost of IT. And, you have the option to use the public cloud when needed.

• HPE Datacenter Care Service

HPE Datacenter Care helps improve IT stability and security, increase the value of IT, and enable agility and innovation. It is a structured framework of repeatable, tested, and globally available services building blocks. You can deploy, operate, and evolve your data center wherever you are on your IT journey. With HPE Datacenter Care, you benefit from a personalized relationship with Hewlett Packard Enterprise via a single point of accountability for HPE and others' products.

• HPE Proactive Care Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, we help you prevent problems and maintain IT stability by

utilizing personalized proactive reports with recommendations and advice. This service includes available response times of next business day, 4-hour response, or 6-hour to repair with answers to software questions within two hours. This service also includes collaborative software support for independent software vendors (ISVs), such as Red Hat, VMware, Microsoft, and others running on your HPE servers.

• HPE Foundation Care Service

HPE Foundation Care connects you to Hewlett Packard Enterprise 24x7 for assistance on resolving issues. This service includes available response times of next business day, 4-hour response, or 6-hour to repair with answers to software questions within two hours. Hewlett Packard Enterprise is a leading manufacturer who makes this level of coverage available as a standard service offering for your valuable servers. In addition, collaborative software support is included and provides troubleshooting assistance on industry-leading software running on your server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems.

Advisory and Transformation Services—

HPE Pointnext designs the transformation and builds a road map tuned to your unique challenges including Hybrid IT, Workload and Application Migration, Big Data, and the Intelligent Edge. Hewlett Packard Enterprise leverages proven architectures and blueprints, integrates HPE and partner products and solutions, and engages Professional and Operational Services teams from HPE Pointnext as needed.

Professional Services—HPE Pointnext creates and integrates configurations that get the most out of software and hardware, and works with your preferred technologies to deliver a more efficient solution. Services provided by the HPE Pointnext team, certified channel partners, or specialist delivery partners include installation and deployment services, mission-critical and technical services, and education services.

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