



Highlights

- Increase operational agility with flexible cloud building, faster provisioning and easier hardware repurposing
 - Scale simply with a single management paradigm across commodity servers, IBM® XIV® storage and public cloud
 - Deploy hotspot-free storage in minutes with technology used in more than 100,000 servers worldwide
 - Keep data available and protected with remote mirroring, multi-tenancy, access-control security and other enterprise capabilities
 - Cut costs with right-fit sizing, data operations standardization, greater self-service and licensing flexibility
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IBM Spectrum Accelerate

*Ultra-flexible software-defined storage,
deployed fast, anywhere*

Today, almost every organization faces an unprecedented explosion of data. You need an efficient storage infrastructure to get the most value from your data with the least cost and effort, and the greatest flexibility. Software-defined storage transforms data economics for traditional and next-generation applications with greater speed, agility and efficiency, while maintaining the security and reliability essential for business-critical data.

IBM Spectrum Storage™ is a comprehensive portfolio of software offerings for organizations of all sizes, designed to deliver storage capacity and services for traditional and next-generation applications anywhere: on-premises, in the cloud or via hybrid solutions. It increases operational agility while decreasing costs and unlocks software innovation to deliver advanced storage functionality. It helps evolve your solutions over time as you enjoy the cost benefits of integrating and transforming existing infrastructures and investments. It deploys flexibly across multiple delivery models—as software, as a cloud service or in an optimized system—and brings the benefits of proven technology and accrued storage intelligence.

IBM Spectrum Accelerate

IBM Spectrum Accelerate™, a key member of the Spectrum Storage portfolio, is a highly flexible storage solution that enables rapid deployment of block storage services for new and traditional workloads,



on-premises, off-premises and in a combination of both. Designed to help enable cloud environments, it is based on the proven technology delivered in IBM XIV Storage System and in use on more than 100,000 servers worldwide.

Spectrum Accelerate has a born-for-the-cloud design that helps deliver predictable, consistent, hotspot-free service levels for a full workload range at all times—without performance tuning. It offers extreme ease of use and task automation, reducing administrative overhead, and scales management to greater than 40 petabytes in a single environment. It comes with advanced mirroring, security and other enterprise capabilities.

In addition to its technology benefits, Spectrum Accelerate is easy to license and deploy. Delivered via the global IBM Passport Advantage® program, it offers efficient online acquisition, license management and renewal. Two kinds of licensing are offered—perpetual and/or monthly—based on usable terabytes.¹ Site-based and hardware-independent, the license can be flexibly used on any virtual array at any time.

IBM Spectrum Accelerate is a new, highly flexible storage offering based on proven technology, for deploying cloud environments in minutes instead of days, and for simple management.

How Spectrum Accelerate works and excels

Spectrum Accelerate runs as a virtual machine—today, on the VMware vSphere ESXi hypervisor—enabling you to build a server-based storage area network (SAN) from commodity hardware that includes x86 servers, Ethernet switches, solid-state drives (SSDs) and high-density disk drives. Spectrum Accelerate works by efficiently grouping virtual nodes with the underlying physical disks and spreading the data evenly across the nodes, creating a single, provisioning-ready virtual array. It cost-effectively uses your standard data center network for both inter-node and host connectivity. Spectrum Accelerate supports any hardware configuration and components that meet the minimal requirements, and requires no explicit hardware certification. Scaling of nodes is linear and nondisruptive.

Spectrum Accelerate delivers hotspot-free performance derived from architectural features that include massive parallelism, and optimal ongoing data distribution and load balancing. Its smart use of cache provides a superior cache hit ratio—and it uses flash media, when deployed, as extended cache across all volumes, boosting performance while sparing the need to manage tiers. It delivers high availability through self-healing, world-class disk rebuild technology and robust quality of service.

Advanced enterprise capabilities. Spectrum Accelerate includes enterprise features with the license, including remote replication, multi-tenancy, snapshots, monitoring, security, and management tools, with automation and orchestration through OpenStack, and representational state transfer (REST).

Transform your infrastructure

Spectrum Accelerate is designed to help you transform industry-standard infrastructure into an agile, simply managed, cost-saving environment for deploying the storage services you need, when you need them.

Deploy fast. Spectrum Accelerate lets you deploy scale-out storage grids in automated environments in minutes rather than days. Built-in management tools and integration with open industry standards such as OpenStack help make it a rapid cloud building block that supports automation and orchestration. Efficient Spectrum Accelerate licensing, download and support help avoid prolonged purchasing processes.

Gain agility. Spectrum Accelerate operates seamlessly across delivery models—on commodity servers in private cloud, with the optimized XIV system, and on public cloud infrastructure such as [SoftLayer self-service infrastructure as a service \(IaaS\)](#).² This means you can right-fit storage deployment for different hardware, environments and needs. Its flexible licensing lets you leverage software-defined storage to dynamically balance capital and operating expenses, and repurpose servers at any time to improve utilization.

Realize simplicity. Spectrum Accelerate lets you simplify and standardize data management across the data center, through world-class ease of use and enterprise features delivered in a hyper-consolidated, single management environment across deployment models. It scales tune-free, enabling management of large, dynamic storage capacities with minimal overhead and training.

Speed growth: Use cases

Spectrum Accelerate helps you take fast steps toward growing your cloud footprint and gaining agility for better data economics and responsiveness. Here are some ways how:

Diverse environments. Deploy test/development or ad-hoc project environments, repurposing the hardware when finished. Mix online transaction processing and new application workloads. Deliver enterprise capabilities to different tiers.

Disaster recovery. Mirror to the cloud or to a data center server running Spectrum Accelerate. Execute backup to server-based, on-premises solutions using the solution's powerful snapshot technology.

Hybrid cloud storage. Create a solution of existing or purpose-built infrastructure, the XIV system, and/or cloud services for cloud-based backup, recovery or archiving for data center servers.

Remote office and branch office. Provide high-availability storage to smaller or distributed organizations such as banks and schools through disaster recovery and other capabilities, using less expensive hardware.

Why IBM?

Innovative technology, open standards, excellent performance, and a broad portfolio of proven storage software and hardware solutions offerings—all backed by recognized industry leadership—are just a few of the reasons to consider storage solutions from IBM. In addition, IBM delivers some of the best storage products, technologies, services and solutions in the industry without the complexity of dealing with different hardware and software vendors.

IBM Spectrum Accelerate at a glance

Recommended specifications

- 3 to 15 x86 servers, each with internal disk drives
- Each server, using VMware vSphere ESXi v5.5, runs a virtual machine with the following configuration*:
 - 4 non-virtualized physical cores
 - 48 GB physical memory
 - 4 x 10 GbE ports
 - 12 disks of 2 TB, 3 TB or 4 TB—all the same size[†]
 - 1 x 800 GB SSD



Take the next step. Click here.
See the full list of specifications.

For more information

To learn more about the IBM Spectrum Accelerate, please contact your IBM representative or IBM Business Partner, or visit the following website: ibm.com/spectrumstorage

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* One IBM Spectrum Accelerate virtual machine per ESXi server.

[†] 1 terabyte (TB) is equal to 2 to the 40th power, or 1,099,511,627,776 bytes.

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² SoftLayer Technologies was acquired by IBM in July of 2013.



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