IBM Spectrum Storage Suite

Leading-edge flexibility and cost-efficiency for today's rapidly growing and changing data storage

Highlights

- Get unlimited access to the IBM® Spectrum Storage family and IBM Cloud Object Storage software

- License the suite on a cost-per-terabyte (TB) basis so pricing is easy to understand and predictable; change or add software without raising license costs

- Improve the way you manage, protect and store data; deploy new storage faster

- Simplify the evolution of storage to a software-defined infrastructure supporting cognitive and other new workloads.

Data today is not only growing faster and bigger than ever, it's also considerably different than it has been. It comes from different places: social media and the Internet of Things, in addition to the enterprise itself. It's used in different operations: analytics and cognitive workloads as well as backups and archiving. It's structured differently: on flash, as file and object data and as traditional block data. Plus it's stored differently: in a software-defined, storage-rich server infrastructure and in the cloud rather than only a storage area network (SAN) environment.

However just as these differences can make data more beneficial for business, they can also add complexity and cost for IT. Challenges ranging from management to licensing often arise from the jumble of multi-vendor applications typically deployed to support virtualised environments. However integrated solutions managed together and purchased together under a simplified licensing and pricing structure – and then used as needed at no additional expense – can provide the streamlined management and lower cost organisations need to get the most from data.

IBM Spectrum Storage Suite gives you unlimited access to the IBM Spectrum Storage software family and IBM Cloud Object Storage software with licensing on a flat, cost-per- terabyte (TB) basis to make pricing easy to understand and predictable as capacity grows. Structured specifically to meet changing storage needs, the suite is ideal for organisations just starting out with software-defined storage as well as those with established infrastructures who need to expand their capabilities.

The evolution from SAN to software-defined, storage-rich servers

Organisations worldwide are finding that the data from traditional workloads such as databases, email and enterprise resource planning (ERP) systems is growing at a much slower rate than data from social media, the Internet of Things, cognitive computing and other new sources. To meet their capacity needs, many continue to maintain their traditional data on SAN-based systems – while storing rapidly growing newer data on storage-rich servers. In fact, in 2014, enterprises for the first time purchased more TBs of storage-rich server capacity than of traditional array capacity. By 2018, storage-rich servers are expected to account for 50 percent of new capacity purchases.[1]

As storage capacity grows, the challenge is to provide full storage functionality regardless of platform – while helping reduce storage costs and predict future storage expenditures.

The simplified IBM approach to improving storage capacity management

IBM Spectrum Storage Suite is designed to help improve the way you manage, protect and store data; deploy new capacity faster; and change or add software without raising license costs. Licenses are calculated on the amount of storage capacity you're managing, not the number of software products you're using. Yet it provides full coverage for software-defined storage needs along with benefits for operations and the budget. The suite gives you access to six members of the IBM Spectrum Storage family and IBM Cloud Object Storage software:

- **IBM Spectrum Control** – Analytics-driven hybrid cloud data management to reduce costs by up to 73 percent[2]
- **IBM Spectrum Protect** – Optimised hybrid cloud data protection to reduce backup costs by up to 53 percent[3]
- **IBM Spectrum Protect Plus** – Complete virtual machine (VM) protection and availability that's easy to set up and manage yet scalable for the enterprise
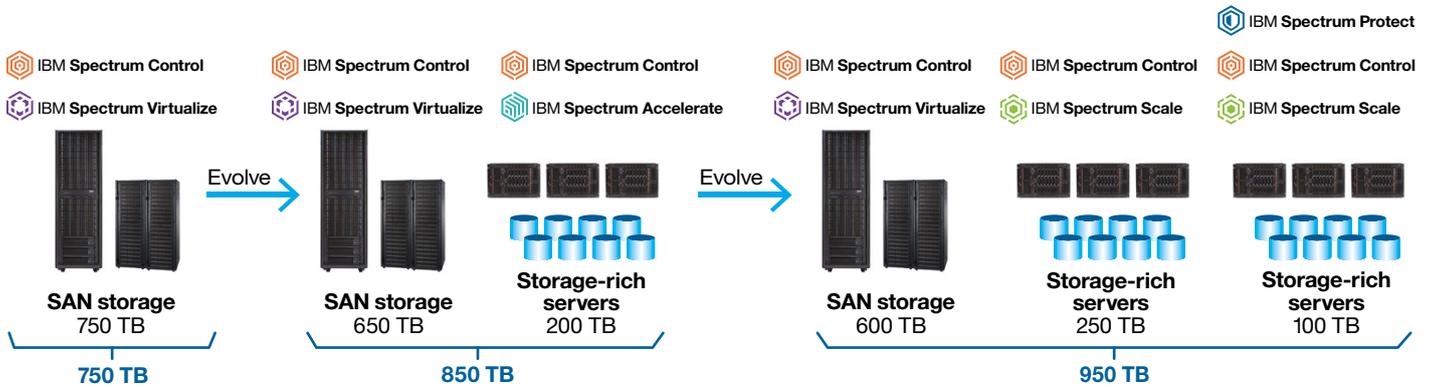
- **IBM Spectrum Archive** – Fast data retention that reduces total cost of ownership (TCO) for active archive data by up to 90 percent[4]
- **IBM Spectrum Virtualize** – Virtualisation of mixed block environments to increase data storage by up to five times[5]
- **IBM Spectrum Accelerate** – Enterprise block storage for hybrid cloud deployed in minutes instead of months
- **IBM Spectrum Scale** – High-performance, highly scalable hybrid cloud storage for unstructured data driving cognitive applications
- **IBM Cloud Object Storage** – Flexible, scalable and simple object storage with geo-dispersed enterprise availability and security for hybrid cloud workloads.

Deployment and management flexibility for today's storage environments

IBM Spectrum Storage family and IBM Cloud Object Storage software enable the full range of storage options – so they provide the flexibility you need to support traditional SAN-based storage and then transition at the rate that is best for you to a software-defined, storage-rich server environment and the cloud.

IBM Spectrum Accelerate, for example, is the software at the heart of high-end, grid-scale IBM XIV and IBM FlashSystem A9000 and IBM FlashSystem A9000R storage systems. However it also can be deployed on Intel-based servers to enhance the flexibility, performance, manageability and scalability of server storage. Or you can deploy IBM Spectrum Accelerate in the cloud, on completely virtualised server storage. With this flexibility, you can get more from your existing server-based storage; you can get the efficiency of running virtualised compute and storage functions on the same server; and you don't need to buy more dedicated storage hardware. What's more, with IBM Spectrum Storage Suite, you can make this evolution with no change to your software licenses.

Sample scenario: Evolving storage with IBM® Spectrum Storage Suite

A company might start with 750 TB of SAN storage and add both capacity and IBM Spectrum Storage products over time (as its use of SAN storage declines and its use of storage-rich servers increases). It might then add still more capacity and products as specialised needs occur. However despite the addition of software products and capabilities, the cost of the license increases only for the additional 200 TB of total capacity

A software suite with a single license that makes growth and change easy

Here's how evolving your capacity with IBM Spectrum Storage Suite works: Simply add up the TBs of physical capacity you want to include in the software-defined environment. This capacity defines the cost of IBM Spectrum Storage Suite. If your capacity remains the same over time, your cost remains the same, too – regardless of how many software components you deploy. Plus as capacity grows – typically with increases in storage-rich servers and decreases in SAN storage – the cost keeps pace. A 10 percent increase in TB, for example, would mean simply a 10 percent increase in software cost.

The licensing structure of IBM Spectrum Storage Suite is designed to help make your storage costs more predictable and your storage budgets easier to manage. Meanwhile, tape storage, when used for massive volumes of archived or seldom-used data, is not calculated into the suite pricing.

Why IBM?

As a trusted supplier of storage software for more than 20 years, IBM has helped thousands of organisations improve data access and availability and get costs under control. IBM gives you confidence your data will be available when you need it and recoverable anytime. IBM research innovations and best practices developed from hands-on field experience combine to provide a solid foundation for building successful business outcomes.

IBM Spectrum Storage Suite at-a-glance

Licensing options

Perpetual	• Designed for capital expenditure budgeting • One-time, upfront purchase of a single license for all products • Annual subscription and support fee for access to technical support and product upgrades • Ideal for users with slower growing or easier-to-predict capacity needs
Monthly	• Designed for operational expenditure budgeting • A single license for all products, with cost per TB of storage • Licensed for a specified term, usually one to 60 months • License for use of software, download updates and technical support for the license term • Ideal for users with rapidly growing capacity needs or who experience short-term spikes in demand
Utility	• Designed for operational expenditure budgeting • Combination of perpetual- and monthly-style licenses: – One-time, upfront purchase – Per-TB and per-term licensing • Ideal for service providers or others with more complex storage needs

For more information

To learn more about IBM Spectrum Storage Suite, please contact your IBM representative or IBM Business Partner (BP), or visit: **ibm.com**/spectrumstorage

Additionally, IBM Global Financing provides numerous payment options to help you acquire the technology you need to grow your business. We provide full lifecycle management of IT products and services, from acquisition to disposition. For more information, visit: **ibm.com**/financing

[1] Natalya Yezhkova, 'Worldwide Enterprise Storage Systems Forecast, 2015–2019,' Doc # 256302, *IDC*, May 2015. https://www.idc.com/getdoc.jsp?containerId=256302

[2] ITG Management Brief, 'Cost/Benefit Analysis of IBM Spectrum Storage,' *ITG*, November 2015. http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?subtype=WH&infotype=SA&htmlfid=TSW03325USEN&attachment=TSW03325USEN.PDF

[3] Based on IBM Butterfly software analysis engine reports of projected cumulative savings.

[4] Three-year total cost of ownership comparison of IBM TS3500 Tape Library/IBM Spectrum Archive solution to IBM DS5100 disk storage solution using IBM Spectrum Control for data management.

[5] IBM lab measurements, April 2012.

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TSD03212-GBEN-02