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## Highlights

- Deploy storage virtualisation and flash performance in one affordable system
  - Help lower storage costs with powerful data compression
  - Build hybrid cloud storage solutions to increase business agility
  - Leverage the power of IBM® Spectrum Virtualize to extend the life of existing assets, simplify storage management, maximise storage utilisation and help lower operating costs
  - Simplify storage management with an innovative new user interface that provides an end-to-end (E2E) view of storage health, long-term performance analytics and capacity statistics across more than 400 virtualised systems.
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# IBM Storwize V5030F

*Advanced performance, functionality and affordability in a single all-flash platform*

Twenty-first century organisations with mid-sized application workloads and limited budgets are seeking to gain competitive advantage from the data assets available to them. The IBM Storwize family provides especially powerful solutions for these organisations. With comprehensive storage services and capabilities based on leading-edge IBM Spectrum Virtualize technologies, Storwize offers feature-rich, affordable storage solutions for the cognitive business looking to grow and thrive.

IBM Storwize V5030F provides an all-flash, highly flexible, easy-to-use storage solution that enables organisations of all types and sizes with mid-range application workloads to efficiently and affordably meet the challenges of rapid data growth and constrained IT budgets. For organisations that need affordable all-flash storage that provides Fortune 500-level functionality plus storage virtualisation capabilities, Storwize V5030F offers an ideal choice.

IBM Spectrum Virtualize serves as the block data plane backbone for the IBM Spectrum Storage family. Its innovative capabilities can combine isolated storage capacity and systems in mixed storage environments into a consolidated virtual resource and then extend a spectrum of enterprise data services to all, whether the underlying systems support the functionality natively or not. Thanks to its IBM Spectrum Virtualize foundation, Storwize V5030F offers a rich set of storage features such as IBM data compression, cloud connectivity, dynamic tiering, thin provisioning and data copy services. IBM Spectrum Virtualize technology can help reduce capital investments by extending the life of existing assets, simplifying storage management, maximising storage utilisation and helping to lower operating costs.



## Increased affordability

IBM Storwize V5030F leverages the performance and affordability of a new category of flash drives that provide much higher storage density than previous solutions. To further reduce storage capacity requirements and costs, Storwize V5030F utilises a powerful data compression technology that provides more consistent results across a wider range of application workload patterns.

## Enterprise-grade security and availability

Storwize V5030F also provides enterprise-grade system availability and data security, 'five nines' availability, data-at-rest encryption and distributed Redundant Array of Independent Disks (RAID) technology that can reduce disk rebuild times up to 10 times over current RAID solutions.<sup>1</sup> IBM HyperSwap functionality enables a single Storwize V5030F system to support servers in multiple data centres (DCs). When combined with server data mobility functions such as VMware vMotion or IBM PowerVM Live Partition Mobility (LPM), IBM HyperSwap enables non-disruptive storage and virtual machine (VMs) mobility between data centres (DCs) up to 300 km (186 miles) apart.

## Easier management

Storwize V5030F is designed to be easy to use from the very start. The innovative new user interface enables administrators to perform configuration, management and service tasks in a consistent manner over multiple storage systems – even from different vendors – vastly simplifying management and helping reduce the risk of errors. IBM Spectrum Control, a member of the leading-edge IBM Spectrum Storage family of software-defined storage solutions, can provide organisations with an E2E view of storage health, long-term performance analytics and capacity statistics for Storwize V5030F and the surrounding storage infrastructure.



## Cloud capabilities

IBM Spectrum Virtualize for Public Cloud functionality enables replication of heterogeneous storage between on-premises DCs and IBM Cloud. It provides the ability to use IBM Cloud for setting up a disaster-recovery (DR) target or for workload migration between on-premises and IBM Cloud.

With its virtualised storage design and tight affinity with PowerVM, OpenStack, Microsoft Hyper-V, VMware vSphere v6 and VMware vSphere Virtual Volumes (VVOL), Kubernetes and Docker containers, Storwize V5030F makes an ideal complement for virtualised servers that are at the heart of cloud deployments.

## Extraordinary support

Storwize family solutions now offer three new customer support and product upgrade programs:

- The IBM Data Reduction Guarantee helps reduce planning risks and lower storage costs with baseline levels of data compression effectiveness in IBM Spectrum Virtualize-based offerings
- The IBM Controller Upgrade Program enables customers of designated all-flash IBM storage systems to reduce costs while maintaining leading-edge controller technology for essentially the cost of ongoing system maintenance
- The IBM High-Availability (HA) Guarantee helps enterprises avoid the costs and risks related to business downtime by ensuring the availability of business-critical data and storage systems.

| <b>IBM Storwize V5030F at a glance</b>                   |  |
|--|--|
| <b>Host interface</b>                                    | 10 gigabits per second (Gbps) Internet small computer system interface (iSCSI) and optional 16 Gbps Fibre Channel (FC), 12 Gbps serial attached SCSI (SAS), 10 Gbps iSCSI/Fibre Channel over Ethernet (FCoE) or 1 Gbps iSCSI   |
| <b>User interface</b>                                    | Graphical user interface (GUI)   |
| <b>Supported drives</b>                                  | 2.5-inch flash drives: 400 gigabyte (GB), 800 GB, 1.6 terabyte (TB), 1.92 TB, 3.2 TB, 3.84 TB, 7.68 TB and 15.36 TB  |
| <b>RAID levels</b>                                       | RAID 0, 1, 5, 6, 10, Distributed   |
| <b>Maximum drives supported</b>                          | 760 per system; 1,520 per clustered system   |
| <b>Fans and power supplies</b>                           | Fully redundant, hot-swappable   |
| <b>Rack support</b>                                      | Standard 19-inch   |
| <b>Management software</b>                               | IBM Spectrum Virtualize software   |
| <b>Cache per control enclosure/<br/>clustered system</b> | 32 GB/64 GB clustered  |
| <b>Advanced features included</b>                        | Virtualisation of internal storage, thin provisioning, data migration  |
| <b>Additional available features</b>                     | Remote mirroring, compression, external virtualisation, encryption, IBM Easy Tier  |
| <b>Replication services</b>                              | IBM FlashCopy, IBM Spectrum Protect Snapshot, Metro Mirror (synchronous), Global Mirror (asynchronous)   |
| <b>Warranty</b>  | <p>Hardware:</p> <ul style="list-style-type: none"> <li>• Flexible warranty <ul style="list-style-type: none"> <li>– One- or three-year warranty with 09:00 to 17:00 next-business-day response (dependent upon machine type)</li> <li>– Tier 1 customer-replaceable units and on-site repairs</li> <li>– Warranty service upgrades available</li> </ul> </li> <li>• Post-warranty support available</li> <li>• Customer setup (initial installation and field upgrades)</li> <li>• Software:</li> <li>• Initial license purchase. Software maintenance agreement available</li> </ul> |
| <b>Size</b>  | <p>8.7 cm (3.4 in.) H x 48.3 cm (19.0 in.) W x 55.6 cm (21.9 in.) D</p> <ul style="list-style-type: none"> <li>• Approximate weight: <ul style="list-style-type: none"> <li>– Small form-factor control enclosure: <ul style="list-style-type: none"> <li>○ Empty: 19.0 kg (41.8 lb)</li> <li>○ Fully configured: 27.3 kg (60.0 lb)</li> </ul> </li> <li>– Small form-factor expansion enclosure: <ul style="list-style-type: none"> <li>○ Empty: 16.7 kg (36.7 lb)</li> </ul> </li> </ul> </li> <li>• Fully configured: 25.0 kg (55.2 lb)</li> </ul>                                  |
| <b>Operating environment</b>                             | <ul style="list-style-type: none"> <li>• Air temperature: <ul style="list-style-type: none"> <li>– Operating: 10°C – 35°C (50°F – 95°F) 30.5 m below to 3,000 m above sea level (100 ft below to 9,840 ft above)</li> <li>– Non-operating: -10°C – 50°C (14°F – 125°F)</li> </ul> </li> <li>• Relative humidity: <ul style="list-style-type: none"> <li>– Operating: 20% – 80%</li> <li>– Non-operating: 10% – 90%</li> </ul> </li> </ul>  |
| <b>Supported systems</b>                                 | For supported servers, operating systems (OS), host bus adapters, clustering applications, storage area network (SAN) switches and directors, visit IBM System Storage Interoperation Centre at: <a href="http://ibm.com/systems/support/storage/config/ssic">ibm.com/systems/support/storage/config/ssic</a>  |
| <b>Independent software vendor (ISV) solutions</b>       | For a list of high-quality solutions with our partner ISVs, including access to solution briefs and white papers, refer to the ISV Solutions Resource Library.   |

## Why IBM?

The Storwize family of products from IBM is known for providing efficient, highly functional, high-performance storage for any type of workload. Storwize solutions, customised for small, midsized and large organisations, are specifically designed to deliver performance in streamlined packages that are easy to buy, deploy and manage.

## For more information

To learn more about Storwize V5030E, contact your IBM representative or IBM Business Partner (BP), or visit: [ibm.com/bz-en/marketplace/external-virtualization](http://ibm.com/bz-en/marketplace/external-virtualization)

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](http://ibm.com/financing)



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<sup>1</sup>IBM lab measurements – April 2012.

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