



Highlights

- Deploy all-flash performance with market-leading functionality and storage virtualization in one cost-effective solution
 - 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, maximize storage utilization and help lower costs
 - Simplify storage management with an innovative new user interface that provides an end-to-end view of storage health, long-term performance analytics and capacity statistics across more than 400 virtualized system
-

IBM Storwize V7000F

High-performance, highly functional, cost-effective all-flash storage

Today's organizations need to meet ever-changing demands for storage while also improving data economics. IT staff must deliver more services faster and more efficiently, enable real-time insight and support more customer interaction. Better than ever before, all-flash storage solutions from IBM Storwize® can meet your requirements for fast, reliable and consistent access to data with extraordinary affordability.

IBM Storwize V7000F is the platform within the Storwize family that offers the greatest functionality, performance and reliability. Enterprises looking to implement an all-flash solution with a rich set of storage services at very competitive initial deployment costs typically find Storwize V7000F an ideal solution.

High performance and functionality

Storwize V7000F is an all-flash, highly scalable, virtualized, enterprise-class storage system designed to consolidate workloads into a single system for ease of management, reduced costs, superior performance and high availability. The 10-core CPU plus a data compression accelerator card accelerate storage throughput and performance. Storwize V7000F also leverages the advantages of enhanced flash drives and features an innovative new user interface, synchronous/asynchronous replication, more than 600 Storwize application programming interfaces (APIs), thin provisioning and snapshots, and a flash-optimized data reduction suite. These features make Storwize V7000F an ideal choice for organizations that need cost-effective high performance, highly functional all-flash storage with market-leading virtualization capabilities.



Powerful storage functionality

IBM Spectrum Virtualize serves as the block data plane backbone for the IBM Spectrum Storage™ family of software-defined storage solutions. Its innovative capabilities can combine isolated storage capacity and systems in mixed storage environments into a consolidated, virtual resource and then extend enterprise data services to all virtualized capacity, whether the underlying systems support the functionality natively or not.

Storage virtualization can reduce capital investment by extending the life of existing assets, simplify storage management, maximize storage utilization and lower operating costs. Thanks to its IBM Spectrum Virtualize foundation, Storwize V7000F offers a rich set of storage features such as data compression, cloud connectivity, dynamic tiering and data copy services.

Multiple cost advantages

Storwize V7000F leverages the performance and cost advantages of a new category of solid-state drives (SSDs) that provide much higher storage density than previous solutions. To further reduce storage capacity requirements and costs, Storwize V7000F utilizes IBM data compression technology that provides more consistent results across an even wider range of application workload patterns.

Enterprise-grade security and availability

Storwize V7000F also provides enterprise-grade system availability and data security, “five nines” availability, data-at-rest encryption and distributed RAID technology that can reduce disk rebuild times up to 10 times over current RAID solutions.¹ IBM HyperSwap® technology enables a single Storwize V7000F system to support servers in multiple data centers. When combined with server data mobility functions such as VMware vMotion or IBM PowerVM® Live Partition Mobility, IBM HyperSwap enables nondisruptive storage and virtual machine mobility between data centers up to 300 km (186 miles) apart.



Easier management

Storwize V7000F 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 industry-leading IBM Spectrum Storage family of solutions, can provide organizations with an end-to-end view of storage health, long-term performance analytics and capacity statistics for Storwize V7000F and the surrounding storage infrastructure.

Cloud capabilities

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

With its virtualized storage design and tight affinity with PowerVM, OpenStack, Microsoft Hyper-V, VMware vSphere v6 and VMware vSphere Virtual Volumes, Kubernetes, and Docker containers, Storwize V7000F makes an ideal complement for virtualized servers at the heart of cloud deployments.

World-class 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 Guarantee helps enterprises avoid the costs and risks related to business downtime by ensuring the availability of business-critical data and storage systems.

IBM Storwize V7000F at a glance

Host interface	1 Gbps iSCSI and optional 16 Gbps Fibre Channel or 10 Gbps iSCSI/Fibre Channel over Ethernet (FCoE)
User interface	Graphical user interface (GUI)
Supported drives	2.5-inch flash drives <ul style="list-style-type: none"> • 400 GB, 800 GB, 1.6 TB, 1.92 TB, 3.2 TB, 3.84 TB, 7.68 TB and 15.36 TB
RAID levels	RAID 0, 1, 5, 6, 10, Distributed
Maximum drives supported	760 per system; 3,040 per clustered system
Fans and power supplies	Fully redundant, hot-swappable
Rack support	Standard 19-inch
Management software	IBM Spectrum Virtualize software
Cache per control enclosure/ clustered system	128 or 256 GB/up to 1,024 GB clustered
Advanced features <i>included</i> with each system	Virtualization of internal storage, thin provisioning, data migration
Additional available advanced features	Remote mirroring, compression, external virtualization, encryption, IBM Easy Tier®
Replication services	IBM FlashCopy®, IBM Spectrum Protect™ Snapshot, Metro Mirror (synchronous), Global Mirror (asynchronous)

Why IBM?

The Storwize family of products from IBM is known for providing cost-efficient, highly functional, high-performance storage for any type of workload. Storwize solutions, customized for small, mid-sized and large organizations, 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 V7000F, contact your IBM representative or IBM Business Partner, or visit: ibm.com/us-en/marketplace/storwize-v7000f

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



© Copyright IBM Corporation 2017

IBM Systems
New Orchard Road
Armonk, NY 10504

Produced in the United States of America
October 2017

IBM, the IBM logo, ibm.com, Easy Tier, FlashCopy, HyperSwap, IBM Spectrum Control, IBM Spectrum Storage, IBM Spectrum Virtualize, IBM Spectrum Protect, PowerVM, and Storwize are trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at ibm.com/legal/copytrade.shtml

Microsoft is a trademark of Microsoft Corporation in the United States, other countries, or both.

VMware is a registered trademark of VMware, Inc. or its subsidiaries in the United States and/or other jurisdictions.

This document is current as of the initial date of publication and may be changed by IBM at any time. Not all offerings are available in every country in which IBM operates.

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

THE INFORMATION IN THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT. IBM products are warranted according to the terms and conditions of the agreements under which they are provided.

Statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

¹ IBM lab measurements – April 2012.



Please Recycle