IBM System Storage interactive product guide

Choose the right storage solution for your highly instrumented, interconnected and intelligent IT environment
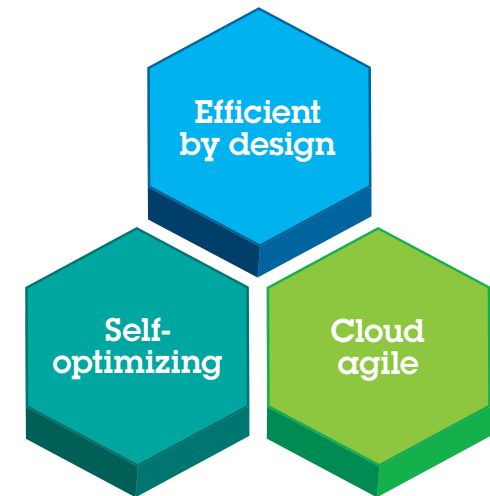
IBM

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Introduction

Today's technological demands—from big data to cloud computing—require a new approach to storing data. They require a more intelligent, more efficient, more automated approach that fundamentally changes the way we regard storage in general. Enter IBM Smarter Storage, a strategic approach built on years of storage industry leadership, innovative and forward-looking technology design, a comprehensive portfolio of advanced storage technologies, and a clear vision of what enterprise storage should be.

With IBM Smarter Storage, you can get more from your storage technologies than ever before. And you can leverage even the largest volumes of data to build a compelling business advantage. IBM Smarter Storage solutions are:

- **Efficient by design**. Efficiency features are designed into IBM storage systems from the beginning. Advanced features are pre-installed, ready to deploy and operate consistently. Storage-efficiency technologies can significantly reduce the amount of data to be stored because they support all data, including active primary data.
- **Self-optimizing**. Self-optimizing storage operates at the speed of business—much faster and more accurately than manual performance tuning. Self-optimizing storage can increase throughput for critical applications while reducing the cost of storing less active data.
- **Cloud agile**. Cloud-agile storage has virtualization built in. Virtualization increases agility by enabling online data migration and simplified storage provisioning. Cloud-agile storage enables immediate self-service and automates most manual storage administration tasks, improving the ability to manage larger, more unpredictable workloads.

Storage leadership and ongoing product innovation from IBM supports organizations like yours in significantly improving storage efficiency and information access with solutions that are easy to use and powerful enough to control massive storage growth.

IBM Storwize family

Designed to deliver more of what you need from storage—using fewer resources

Family features

- Provide up to three times performance improvement by moving as little as five percent of data to flash storage using IBM® System Storage® Easy Tier® technology[1]
- Store up to five times as much active data in the same physical disk space using IBM Real-time Compression™[2]
- Improve management capabilities and reduce management effort with advanced graphical user interface
- Experience rapid, flexible provisioning and simple configuration changes with internal virtualization and thin provisioning
- Integrate with IBM SmartCloud® Storage Access to quickly implement private cloud storage services
- Enable near-continuous application availability through dynamic migration

Enterprise
IBM System Storage SAN Volume Controller

SAN Volume Controller (SVC) is designed to deliver the benefits of storage virtualization in environments ranging from large enterprises to small businesses and midmarket companies. Learn more on the web or download the data sheet.

Midrange
IBM Storwize V7000 and
IBM Storwize V7000 Unified

IBM Storwize® V7000 and Storwize V7000 Unified are virtualized storage systems designed to consolidate workloads into a single storage system for simplicity of management, reduced cost, highly scalable capacity, high performance and high availability. Learn more on the web or download the data sheet.

Midrange
IBM Flex System V7000 Storage Node

IBM Flex System™ V7000 Storage Node is a powerful block storage system designed to enable exceptionally rapid storage deployment and breakthrough management simplicity through full integration with IBM compute, storage, networking, virtualization and management infrastructures. Learn more on the web or download the data sheet.

Entry
IBM Storwize V3700

The entry-level Storwize V3700 disk storage system is affordable, easy to use and self-optimizing, enabling small and mid-sized organizations to overcome today's storage challenges. Learn more on the web or download the data sheet.

IBM FlashSystem family

High-performance, low-latency storage systems to turbocharge your IT infrastructure

Family features

- Reduce business interruptions without sacrificing performance or usable capacity using IBM Variable Stripe RAID™ technology
- Accelerate decision making across multiple applications, including data warehouses, online transactional processing (OLTP) and online analytical processing (OLAP) databases
- Improve IT efficiency with IBM MicroLatency™, high bandwidth and extreme input/output operations per second (IOPS) performance in a small footprint
- Realize macro efficiencies with green storage, designed for fast data access at low wattage
- Extract immediate value from your investment with quick time to deployment

IBM FlashSystem 820 and IBM FlashSystem 720

IBM FlashSystem™ 820 and FlashSystem 720 can increase the performance of multiple enterprise-class applications by delivering extreme performance and enabling you to uncover business insights using both traditional data analytics and big-data technologies. Learn more on the web or download the data sheet.

IBM FlashSystem 810 and IBM FlashSystem 710

IBM FlashSystem 810 and FlashSystem 710 are designed to boost the performance of critical enterprise applications by eliminating storage bottlenecks with MicroLatency, which enables faster decision making. Learn more on the web or download the data sheet.

Disk storage systems

Delivering efficient, agile storage for a demanding world

Family features

- Help simplify and centralize storage administration and management with an easy-to-use graphical user interface
- Boost storage efficiency and performance—from entry- to enterprise-level—using features such as automated tiering, virtualization, remote replication and thin provisioning
- Effectively and efficiently manage the broad scope of storage workloads running in today's complex data centers
- Add flexibility with flash drive support from most systems
- Achieve agility in cloud environments with high scalability; consistent, high service levels for dynamic, heterogeneous workloads; and products designed for virtualized environments
- Leverage extreme scalability to accommodate capacity growth, satisfying bandwidth-hungry applications with scale-out performance for both random access and streaming workloads
- Support disk-based backup and recovery using point-in-time copy and remote replication software

Block storage systems

- **Enterprise**
  - IBM XIV® Storage System
  - IBM System Storage DS8000® series
    - IBM System Storage DS8870
- **Midrange**
  - IBM System Storage DCS3700
  - IBM System Storage DS5020 Express
  - IBM System Storage DS3950 Express
- **Entry**
  - IBM System Storage DS3500 Express
- **Midrange and entry expansion units**
  - IBM System Storage EXP5060 High Density Disk Enclosure
  - IBM System Storage EXP3500 Express
  - IBM System Storage EXP2500 Express

Network-attached storage (NAS)

- **Enterprise**
  - IBM Scale Out Network Attached Storage (SONAS)
  - IBM System Storage N7000 series[3]
    - IBM System Storage N7950T
    - IBM System Storage N7550T
- **Midrange**
  - IBM System Storage N6000 series[3]
    - IBM System Storage N6250
    - IBM System Storage N6220
  - IBM Real-time Compression Appliance STN7800
- **Entry**
  - IBM System Storage N3000 Express series
    - IBM System Storage N3240
    - IBM System Storage N3220
    - IBM System Storage N3150

Contents > **Disk storage systems**

Block storage systems

These high-end disk storage systems are designed to meet the stringent demands of enterprise storage environments.

Enterprise
IBM XIV Storage System
XIV Storage System is powerful and cloud-agile, designed to make a difference with tuning-free high performance for dynamic, mixed workloads, extreme ease of use, and cost-saving flexibility across the data center. Learn more on the web or download the data sheet.

Enterprise
IBM System Storage DS8000 series
The DS8000 series comprises a highly scalable, self-tuning, high-end disk system designed to support your critical enterprise workloads with extreme performance, reliability and agility—including support for traditional disk and solid-state flash drives. Learn more on the web.

- IBM System Storage DS8870

Midrange
IBM System Storage DCS3700
IBM System Storage DS5020 Express
IBM System Storage DS3950 Express

Entry
IBM System Storage DS3500 Express

Midrange and entry expansion units
IBM System Storage EXP5060 High Density Disk Enclosure
IBM System Storage EXP3500 Express
IBM System Storage EXP2500 Express

Network-attached storage (NAS)

NAS products from IBM provide a wide range of network attachment capabilities to a broad spectrum of host and client systems.

Enterprise
IBM Scale Out Network Attached Storage (SONAS)
SONAS embraces and delivers cloud storage in the petabyte age, meeting today's storage challenges with quick and cost-effective IT-enabled business enhancements designed to grow with unprecedented scale. Learn more on the web or download the data sheet.

Enterprise
IBM System Storage N7000 series[3]
The N7000 series is designed to provide remarkable versatility in an integrated architecture for technology innovation that matters. Learn more on the web.

- IBM System Storage N7950T
- IBM System Storage N7550T

Midrange
IBM System Storage N6000 series[3]
The N6000 series meets NAS needs and provides high levels of application availability for everything from critical business operations to technical applications. Learn more on the web.

- IBM System Storage N6250
- IBM System Storage N6220

Midrange
IBM Real-time Compression Appliance STN7800
The IBM Real-time Compression Appliance reduces the amount of disk space required for active primary NAS data by up to five times with no performance degradation.[2] Learn more on the web or download the data sheet.

Entry
IBM System Storage N3000 Express series
The N3000 Express series is designed to provide primary and secondary storage, consolidating all fragmented application-based storage and unstructured data into one single-code system. Learn more on the web.

- IBM System Storage N3240
- IBM System Storage N3220
- IBM System Storage N3150

IBM

Tape storage

Tape storage for reliable data protection and long-term retention

Family features

- Provide high-capacity storage backup for IT infrastructures
- Store removable cartridges to protect them from viruses, sabotage and corruption
- Support scalability by simply adding more tape cartridges, versus drives
- Add data protection by moving portable media offsite
- Shorten backup windows and enable rapid data restores with virtual tape
- Address security compliance requirements using encryption and Write Once Read Many (WORM) technologies
- Experience low total cost of ownership

Enterprise
- **IBM System Storage TS1140 Tape Drive**
- **IBM System Storage TS1130 Tape Drive**
- **IBM System Storage TS1120 Tape Drive**
- **IBM System Storage TS3500 Tape Library**[4]
- **IBM System Storage Tape Controller for IBM System z®**
- **IBM System Storage TS7650G ProtecTIER® Deduplication Gateway**
- **IBM Virtualization Engine TS7740 and TS7720**

Midrange
- **IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express**
- **IBM System Storage TS3500 Tape Library**[4] **with:**
  - IBM System Storage TS1060 Tape Drive
  - IBM System Storage TS1050 Tape Drive
  - IBM System Storage TS1040 Tape Drive
- **IBM System Storage TS3310 Tape Library**

Entry
- **IBM System Storage TS2360 Tape Drive Express**
- **IBM System Storage TS2260 Tape Drive Express**
- **IBM System Storage TS2350 Tape Drive Express**
- **IBM System Storage TS2250 Tape Drive Express**
- **IBM System Storage TS2340 Tape Drive Express**
- **IBM System Storage TS2240 Tape Drive Express**
- **IBM System Storage TS2900 Tape Autoloader Express**
- **IBM System Storage TS3200 Tape Library Express**
- **IBM System Storage TS3100 Tape Library Express**

IBM storage media
- **IBM System Storage 3592 Tape Cartridge**
- **Linear Tape-Open (LTO) Ultrium 6, 5, 4, 3, 2, 1 and cleaning cartridges**
- **IBM RDX cartridges**
- **DAT160, DAT72, DDS-4 and DDS-3 and cleaning cartridges**
- **5.25-inch MLR3/QIC-5120-DC SLR cartridge**
- **5.25-inch SLR60 SLR cartridge**
- **5.25-inch SLR cartridge**
- **5.25-inch SLR100 SLR cartridge**

Enterprise

IBM enterprise-class tape storage products are designed to offer the high performance, availability, reliability and capacity needed to provide enterprise-class solutions for mass storage, data archiving, enterprise backup and disaster recovery.

IBM System Storage TS1140 Tape Drive

IBM System Storage TS1130 Tape Drive

IBM System Storage TS1120 Tape Drive

IBM System Storage TS3500 Tape Library[4]

IBM System Storage Tape Controller for IBM System z

IBM System Storage TS7650G ProtecTIER Deduplication Gateway

IBM Virtualization Engine TS7740 and TS7720

Midrange

IBM midrange tape storage products are designed to provide reliable and flexible data backup, archiving and management — for today and into the future.

IBM System Storage TS7620 ProtecTIER Deduplication Appliance Express

IBM System Storage TS3500 Tape Library[4] **with:**
   IBM System Storage TS1060 Tape Drive
   IBM System Storage TS1050 Tape Drive
   IBM System Storage TS1040 Tape Drive

IBM System Storage TS3310 Tape Library

Contents > **Tape storage**

Entry

IBM entry-level tape products provide reliable, affordable data backup and protection.

IBM System Storage TS2360 Tape Drive Express

IBM System Storage TS2260 Tape Drive Express

IBM System Storage TS2350 Tape Drive Express

IBM System Storage TS2250 Tape Drive Express

IBM System Storage TS2340 Tape Drive Express

IBM System Storage TS2240 Tape Drive Express

IBM System Storage TS2900 Tape Autoloader Express

IBM System Storage TS3200 Tape Library Express

IBM System Storage TS3100 Tape Library Express

IBM storage media

Today's data centers must satisfy increasing demands for data retention, security and availability—while contending with reduced budgets. IBM storage media solutions have been developed to help you address these challenges.

IBM System Storage 3592 Tape Cartridge

Linear Tape-Open (LTO) Ultrium 6, 5, 4, 3, 2, 1 and cleaning cartridges

IBM RDX cartridges

DAT160, DAT72, DDS-4 and DDS-3 and cleaning cartridges

5.25-inch MLR3/QIC-5120-DC SLR cartridge

5.25-inch SLR60 SLR cartridge

5.25-inch SLR cartridge

5.25-inch SLR100 SLR cartridge

Storage-area network (SAN)

Flexible, scalable, open standards-based business- and enterprise-class solutions

Family features

- Choose from a comprehensive portfolio of SAN switches, storage, software and solutions
- Capitalize on enterprise-wide data sharing and collaboration with Fibre Channel connectivity
- Connect servers and storage systems in local, campus, metro and global infrastructures using intelligent SAN switches, directors and routers
- Help drive innovation and create a dynamic, scalable infrastructure
- Access information cost-effectively

SAN specialty switches
- **IBM System Storage SAN06B-R extension switch**
- **IBM System Storage SAN32B-E4 Encryption Switch**
- **Brocade VDX 6730 Converged Switch for IBM**
- **Cisco MDS 9222i for IBM System Storage**

Enterprise SAN directors
- **IBM System Storage SAN768B-2 and SAN384B-2**
- **IBM System Storage SAN768B and SAN384B**
- **Cisco MDS 9710 Multilayer Director for IBM System Networking**
- **Cisco MDS 9500 Series Multilayer Directors for IBM System Storage**

Midrange SAN switches
- **IBM System Networking SAN96B-5**
- **IBM System Storage SAN80B-4**
- **IBM System Storage SAN48B-5**
- **Cisco MDS 9148 for IBM System Storage**

Entry SAN switches
- **IBM System Networking SAN24B-5**
- **IBM System Storage SAN24B-4 Express**
- **Cisco MDS 9124 Express for IBM System Storage**

IBM System Networking Ethernet and converged switches
- **Ethernet switch and interconnect modules for IBM Flex System**
  - IBM Flex System Fabric SI4093 System Interconnect Module
  - IBM Flex System Fabric EN4093R 10 Gb Scalable Switch
  - IBM Flex System Fabric CN4093 10 Gb Converged Scalable Switch
  - IBM Flex System EN2092 1 Gb Ethernet Scalable Switch
- **Ethernet switch modules for IBM BladeCenter®**
  - IBM BladeCenter Virtual Fabric 10G Ethernet Switch Module
  - IBM BladeCenter 1/10G Uplink Ethernet Switch Module
  - IBM BladeCenter Layer 2 - 7 Gigabit Ethernet Switch Module
  - IBM BladeCenter Layer 2/3 Copper and Fiber Gb Ethernet Switch Modules
- **Ethernet and converged top-of-rack switches**
  - IBM System Networking RackSwitch™ G8316
  - IBM System Networking RackSwitch G8264CS
  - IBM System Networking RackSwitch G8264T
  - IBM System Networking RackSwitch G8264
  - IBM System Networking RackSwitch G8124E
  - IBM System Networking RackSwitch G8052

Contents > Storage-area network (SAN)

SAN specialty switches

These SAN specialty switches deliver capabilities ranging from connecting heterogeneous SAN fabrics, to enabling distance extension using Fibre Channel over IP, to converging SAN and Ethernet traffic on a single platform.

IBM System Storage SAN06B-R extension switch

Brocade VDX 6730 Converged Switch for IBM

IBM System Storage SAN32B-E4 Encryption Switch

Cisco MDS 9222i for IBM System Storage

Enterprise SAN directors

Enterprise SAN directors provide metro and global connectivity in addition to high availability, scalability and performance between sites over different networking protocols.

IBM System Storage SAN768B-2 and SAN384B-2

Cisco MDS 9710 Multilayer Director for IBM System Networking

IBM System Storage SAN768B and SAN384B

Cisco MDS 9500 Series Multilayer Directors for IBM System Storage

Midrange SAN switches

Midrange SAN switches can scale to provide solutions for small and midsized businesses up to large enterprises.

IBM System Networking SAN96B-5

IBM System Storage SAN48B-5

IBM System Storage SAN80B-4

Cisco MDS 9148 for IBM System Storage

Entry SAN switches

These entry-level SAN switches are designed to provide easy-to-use, affordable solutions for small and midsized businesses.

IBM System Networking SAN24B-5

Cisco MDS 9124 Express for IBM System Storage

IBM System Storage SAN24B-4 Express

IBM System Networking Ethernet and converged switches

IBM System Networking switches are designed to increase ease of use and management, help scale-out architectures, reduce power consumption and cost, and provide high-performance and virtualization-aware networking for next-generation data center networks.

Ethernet switch and interconnect modules for IBM Flex System

These switch and interconnect modules provide extreme flexibility, scalability and performance while delivering networking innovations to help address current—and future—converged networking needs and requirements. Learn more on the web.

IBM Flex System Fabric SI4093 System Interconnect Module
IBM Flex System Fabric EN4093R 10 Gb Scalable Switch
IBM Flex System Fabric CN4093 10 Gb Converged Scalable Switch
IBM Flex System EN2092 1 Gb Ethernet Scalable Switch

Ethernet switch modules for IBM BladeCenter

These switch modules offer a simple way to manage high-performance Ethernet networking capabilities for BladeCenter systems. Learn more on the web.

IBM BladeCenter Virtual Fabric 10G Ethernet Switch Module
IBM BladeCenter 1/10G Uplink Ethernet Switch Module
IBM BladeCenter Layer 2 - 7 Gigabit Ethernet Switch Module
IBM BladeCenter Layer 2/3 Copper and Fiber Gb Ethernet Switch Modules

IBM

IBM System Networking Ethernet and converged switches *(continued)*

Ethernet and converged top-of-rack switches
These switches are designed for file-based or block-based switching in IP storage and converged data center environments. Learn more on the web.

IBM System Networking RackSwitch G8316
IBM System Networking RackSwitch G8264CS
IBM System Networking RackSwitch G8264T
IBM System Networking RackSwitch G8264
IBM System Networking RackSwitch G8124E
IBM System Networking RackSwitch G8052

IBM System Storage software
Powerful features and superior value for all business levels

Family features

- Reduce data risks and simplify administration
- Improve storage infrastructure optimization and performance
- Reduce backup and archive storage footprint by 95 percent or more[5]
- Virtualize and manage heterogeneous resources
- Mitigate risk of data loss and downtime through the use of snapshots, mirroring and continuous data protection
- Reduce per-terabyte cost of storage with analytics-based tiered storage
- Improve management of data throughout its useful lifetime
- Reduce backup storage space requirements by up to 90 percent after just six incremental backups[6]
- Increase storage administrator productivity by up to 40 percent[7]
- Reduce time spent on problem, configuration and capacity management by up to 60 percent[7]

IBM Tivoli
- **IBM Tivoli® Storage FlashCopy® Manager**
- **IBM Tivoli Storage Manager and IBM Tivoli Storage Manager Extended Edition**
  - IBM Tivoli Storage Manager FastBack®
  - IBM Tivoli Storage Manager FastBack for Microsoft Exchange
  - IBM Tivoli Storage Manager FastBack for Bare Machine Recovery
  - IBM Tivoli Storage Manager FastBack Center
  - IBM Tivoli Storage Manager FastBack for Workstations
  - IBM Tivoli Storage Manager FastBack for Storwize V7000
  - IBM Tivoli Storage Manager for Enterprise Resource Planning
  - IBM Tivoli Storage Manager for Mail
  - IBM Tivoli Storage Manager for Space Management
  - IBM Tivoli Storage Manager for Storage Area Networks
  - IBM Tivoli Storage Manager for System Backup and Recovery
  - IBM Tivoli Storage Manager for Virtual Environments

- IBM Tivoli Storage Manager HSM for Windows
- IBM Tivoli Storage Manager Suite for Unified Recovery
- IBM Tivoli Storage Manager Suite for Unified Recovery Entry
- IBM Tivoli Storage Manager for Databases
- **IBM Tivoli Continuous Data Protection for Files**
- **IBM Tivoli Cristie Bare Machine Recovery**
- **IBM Tivoli Storage Productivity Center**

IBM SmartCloud
- **IBM SmartCloud Storage Access**
- **IBM SmartCloud Virtual Storage Center**

IBM Linear Tape File System
- **IBM Linear Tape File System™ Enterprise Edition**
- **IBM Linear Tape File System Library Edition**
- **IBM Linear Tape File System Single Drive Edition**
- **IBM Linear Tape File System Storage Manager**

IBM Tivoli

Tivoli storage management solutions can help you guard against data loss, ensure compliance, streamline storage management and reduce storage costs—while simultaneously helping your organization to grow its capacity and revenue.

IBM Tivoli Storage FlashCopy Manager

IBM Tivoli Storage Manager and IBM Tivoli Storage Manager Extended Edition
  IBM Tivoli Storage Manager FastBack
  IBM Tivoli Storage Manager FastBack for Microsoft Exchange
  IBM Tivoli Storage Manager FastBack for Bare Machine Recovery
  IBM Tivoli Storage Manager FastBack Center
  IBM Tivoli Storage Manager FastBack for Workstations
  IBM Tivoli Storage Manager FastBack for Storwize V7000
  IBM Tivoli Storage Manager for Enterprise Resource Planning
  IBM Tivoli Storage Manager for Mail
  IBM Tivoli Storage Manager for Space Management
  IBM Tivoli Storage Manager for Storage Area Networks
  IBM Tivoli Storage Manager for System Backup and Recovery
  IBM Tivoli Storage Manager for Virtual Environments
  IBM Tivoli Storage Manager HSM for Windows
  IBM Tivoli Storage Manager Suite for Unified Recovery
  IBM Tivoli Storage Manager Suite for Unified Recovery Entry
  IBM Tivoli Storage Manager for Databases

IBM Tivoli Continuous Data Protection for Files

IBM Tivoli Cristie Bare Machine Recovery

IBM Tivoli Storage Productivity Center

IBM SmartCloud

To gain the full benefits of cloud computing, organizations must improve their storage agility. Cloud storage solutions from IBM enable efficient virtualization and cloud-agile features, without needing to rip and replace your existing storage.

IBM SmartCloud Storage Access   **IBM SmartCloud Virtual Storage Center**

IBM Linear Tape File System

Linear Tape File System works in conjunction with LTO tape technology to set a new standard for ease of use and portability for open-systems tape storage—making data access from IBM tape cartridges as easy and intuitive as using a USB flash drive.

IBM Linear Tape File System Enterprise Edition   **IBM Linear Tape File System Single Drive Edition**

IBM Linear Tape File System Library Edition   **IBM Linear Tape File System Storage Manager**

IBM System Storage services

End-to-end offerings that form the foundation of a cohesive technology management strategy

Family features

- Enable business growth and innovation with efficient storage and data services
- Help address storage needs by proactively establishing a well-organized approach to your storage and data environment
- Simplify the management of storage and data environments
- Provide insight into how your business is using existing storage assets
- Improve the value of key data by helping to reduce storage risks

IBM Global Technology Services

IBM delivers deep technological expertise and rich industry insight to help you align your IT and business objectives—designing a transparent, agile value chain that supports current requirements while enabling you to chart a path to innovation and growth. Learn more on the web.

IBM SmartCloud Enterprise – object storage

IBM Global Financing

IBM Global Financing solutions can help accelerate your acquisitions of the latest technologies and services and make your infrastructure more affordable by providing competitive, customized financing—as well as effective cash management, protection from technology obsolescence, and improved total cost of ownership and ROI—for storage, server, PC, software and services investments. Learn more on the web.

IBM Global Asset Recovery Services

IBM Storage and Data Services

Storage and Data Services from IBM can help you achieve business objectives by creating cost-effective data storage solutions that address the requirements of key business applications—while reducing management costs. Learn more on the web.

IBM Technical Support Services

These services can help you get the most out of your IT investments by reducing support costs, increasing availability and simplifying management with integrated support for your storage environment. Learn more on the web.

For more information

To learn more about IBM System Storage offerings, please contact your IBM representative or IBM Business Partner, or visit: **ibm.com**/systems/storage/

[1] IBM lab measurements – August 2010.

[2] Compression data based on IBM measurements; compression rates vary by data type and content.

[3] N7000 and N6000 series Gateways can be ordered through a gateway feature code (9551).

[4] IBM System Storage TS3500 Tape Library can also be used in midrange environments.

[5] IBM white paper, "Combining IBM Real-time Compression and IBM ProtecTIER Deduplication," IBM Systems and Technology, July 2011.

[6] ESG Lab Validation Report, "IBM Tivoli Storage Manager 6.3: Deduplication, Remote Site Recovery, and Scalability," November 16, 2012.

[7] Edison Group white paper, "Competitive Management Cost Study: IBM Storwize V7000 vs. EMC VNX5500 Storage Systems," April 2012.

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