Managing the data deluge

Rampant growth in the quantity and complexity of data is straining budgets and hindering IT productivity. Already immense, storage requirements continue to multiply year after year. This growth exacerbates complexity, raising both the risks and the stakes of data loss and downtime, and posing a threat to IT organizations trying to control budgets and simplify operations.

Today’s storage must support global, around-the-clock, Web-optimized applications and expanding databases, as well as multimedia and other file-based operations. Pervasive server and client virtualization infuse new requirements, potentially breaking existing processes and forcing IT managers to reconsider the effectiveness of their pre-existing storage infrastructures.

Traditional storage solutions actually add cost and complexity instead of reducing them, effectively defeating the efficiencies promised by virtualization. Moreover, scaling traditional storage for growth includes the pain of data-in-place migrations and forklift upgrades.

What enterprises and organizations need are dynamic storage solutions that can truly simplify data management through built-in intelligence and advanced automation.

Solutions designed with your needs in mind:

- **Storage consolidation**
  Seamlessly scale your infrastructure while reducing acquisition and operational costs.

- **Virtualized infrastructure**
  Fully optimize your virtualized infrastructure while managing more data with fewer resources.

- **Application integration & optimization**
  Optimally provision storage for performance, availability and protection of your applications.

- **Data protection**
  Protect your assets for rapid recovery while improving systems and staff efficiency.

- **Disaster recovery**
  Ensure continuity of your business simply and cost-effectively.

- **Data retention & governance**
  Preserve your critical information for long term retention and recovery.

- **Cloud integration**
  Enable secure, reliable data access to cloud-based resources by mobile and remote workers.
Compellent Storage Center
Multi-protocol enterprise storage

Self-optimized and powerful core storage, designed for business results

Designed for massive-scale cloud and enterprise environments, Dell™ Compellent™ Storage Center is a powerful, all-in-one, multi-protocol storage solution that applies advanced, block-level intelligence and efficiency-optimized automation to dynamically manage data and lower the overall cost of storage. Dell Compellent can help you slow the pace of expansion and make better use of lower-cost, capacity-optimized storage resources through its proven Data Progression technology – which automatically moves data to the optimum storage tier based on actual use and performance. Plus, Compellent’s Persistent Architecture and unique Perpetual Software Licensing model eliminates the risk of forklift upgrades.

“Building a virtual environment using Dell and Compellent solutions has increased our operational efficiency and enhanced our overall performance.”
— Jim DiMarzio
CIO, Mazda North American Operations

Dell Compellent Storage Center is a virtualized storage platform designed for high scalability, advanced intelligence, centralized management, and flexible configuration options to serve high-growth operations as a standalone solution or to complement existing storage infrastructures.
EqualLogic
Unified, virtualized IP Storage

Uncomplicated and versatile, designed for growing environments

Dell EqualLogic virtualized IP storage is ideal for fast-growing companies and organizations. EqualLogic’s frameless peer storage architecture enables live, non-disruptive firmware upgrades and maintenance, as well as linear scaling of capacity and performance with each array added to a storage pool. Continuous integration with leading operating system, hypervisor and application platforms helps streamline operations, optimize resources, and protect data in Microsoft®, Linux, and VMware® environments. A groundbreaking, all-inclusive software model allows around-the-clock access to the latest product features, and enables multiple generations of EqualLogic arrays to work in a single, virtualized pool.

“...in desktop virtualization all the data sits on the centralized storage, so performance is critical. So, when we actually ran our tests on EqualLogic iSCSI, we were absolutely blown away by the results. EqualLogic was head and shoulders above the rest.”

— Brad Blake
Chief Technology Officer, Boston Medical Center

Dell EqualLogic PS and FS Series
applies a virtualized, scale-out architecture and Ethernet networking to simplify management, scale seamlessly, and reliably protect data.
PowerVault
Modular disk storage

Value and performance, designed for consolidation without complexity

Optimized to the needs of small business, departmental and branch office operations, Dell™ PowerVault™ primary storage solutions are designed to offer affordability without compromising enterprise-class features and reliability. PowerVault storage provides a range of solid state, SAS and nearline SAS technologies, as well as a choice among direct-attached, iSCSI, Fibre Channel or NAS interconnect protocols. With easy management Dell PowerVault primary storage solutions offer a balance of performance, operational simplicity, and flexible deployment.

“The biggest advantage of the Dell MD3000i for me is the ability to add a few more drives to the SAN as needed. In addition, the consolidated SAN storage saves 24 to 36 hours per year in administration time.”

— Christopher Rhoda
Vice President for Information Services,
Thomas College, USA

Safeguarding your data from risk

In the Virtual Era, the need for reliable and efficient data backup and archiving processes has grown even more vital. Backup enables organizations to make periodic copies of business-critical data, mitigating the risk of loss from catastrophic outages caused by natural disaster, human error or malice. Archiving helps reduce the backup burden by moving aged or seldom-used data from primary to secondary storage media, removing it from the backup stream. As the quantity and complexity of enterprise data continue to soar, so do the challenges of effective backup within narrowing time windows, efficient online storage for quick recovery, and reliable archiving.

Dell’s backup solutions are designed to help automate data backup processes, drive reliability and storage efficiency, and maximize IT system uptime. Working with Dell’s industry-leading backup partners and award-winning, global Dell Services, enterprises and organizations can protect and manage the growing torrent of information, while simultaneously simplifying operations.
PowerVault

D2D and D2T backup appliances

Simple protection and recovery, designed to reduce complexity for organizations of all sizes

Dell™ PowerVault disk libraries and backup systems can offer native disk-to-disk alternatives to virtual tape libraries (VTLs) and eliminate the need for manual setup and management. Designed for low-touch operation, Dell PowerVault disk systems offer modular flexibility and rugged construction. With features such as proactive monitoring, alerts, reporting and optional deduplication, PowerVault disk systems can help reduce costs, reduce complexity, streamline maintenance, and maximize system uptime.

The Dell PowerVault DL Backup to Disk Appliance powered by CommVault® or Symantec® offers integrated, automated, dynamic disk provisioning. Organizations can architect backup-to-disk solutions based on the PowerVault DL to simplify operations, accelerate time to deployment and reduce costs over homegrown solutions.

Dell PowerVault modular tape libraries and LTO drives offer versatility to help protect long-term digital investments. Modular and extremely scalable, Dell PowerVault tape libraries are designed to automate the storage, retrieval and management of tape cartridges. Dell PowerVault LTO tape drives deliver reliable, cost-effective business continuity and enable disaster recovery for organizations of all sizes.

“Data recovery used to be one of our greatest concerns. Now we focus our energy on supporting our business users, while the backups take care of themselves.”

— Gustin Hare
Corporate IT Director,
HDR EOC

The Dell PowerVault TL Tape Library offers expandable and affordable tape automation for organizations that have outgrown autoloader technology or capacity. The PowerVault TL provides affordable, versatile, easy-to-use, automated, mid-range tape backup solutions for organizations of every size.
DX Object Storage Platform
Archival storage

Massive scale and content-aware, designed to seamlessly grow from terabytes to petabytes

An advanced alternative to file-based solutions, the Dell DX Object Storage Platform allows organizations to flexibly and cost-effectively manage digital content on a large scale. Unlike traditional solutions, the Dell DX assigns unique identifiers to data objects, eliminating the need to know their specific locations. The Dell DX then applies a powerful system of metadata tags to enable policy-based automation of access, discovery, replication, distribution, retention and other specialized handling processes. With these capabilities, organizations can use Dell DX to automate file retention, tightly govern user access, streamline business intelligence operations and improve decision-making capabilities.

“Object-based storage is the perfect fit for our lab’s needs because we have millions of large files, and they don’t change much. With the Dell DX Object Storage Platform, we gain the cost-effective scalability and easy accessibility our researchers need.”

— Henk van den Toorn
Post-Doctoral Bioinformatician,
Utrecht University, The Netherlands

Designed to meet today’s exploding data management and retention requirements, the Dell DX Object Storage Platform is an intelligent, automated, policy-based retention and deletion platform that can scale seamlessly and cost-effectively to billions of files or petabytes of information.
Dell storage solutions give you the power to do more.

The Virtual Era offers an unprecedented opportunity for organizations to rethink and reinvent their computing infrastructures, specifically with an eye toward solutions to overcome the challenges of spiraling data growth and its inherent complexity.

With its broad product and services portfolio, Dell offers unparalleled strengths as an IT solution partner. Let Dell collaborate with you to architect a storage solution that can scale seamlessly, adapt gracefully to new – even over-the-horizon – hardware and software capabilities, all while helping to reduce capital and operating costs.

As a solution partner, Dell offers the technology, know-how and experience to help you simplify operations, ensure success, and maximize data availability and business uptime.

And with simplification, cost reduction and investment protection as core design tenets, Dell storage solutions can play a vital role in shifting your resources from maintenance to innovation.

Available in over 150 countries, Dell storage solutions are providing customers greater efficiency, agility and resiliency through automation and simplicity.

Why Dell storage solutions?

- Worldwide presence and expertise
- Industry’s broadest storage portfolio and partner ecosystem
- Award winning, intelligent storage platforms
- Modular portfolio of customer-centric services
- Open, pragmatic, proven solutions
- Complete end-to-end solution development, delivery and support

To explore the broad portfolio of Dell storage solutions visit www.DellStorage.com