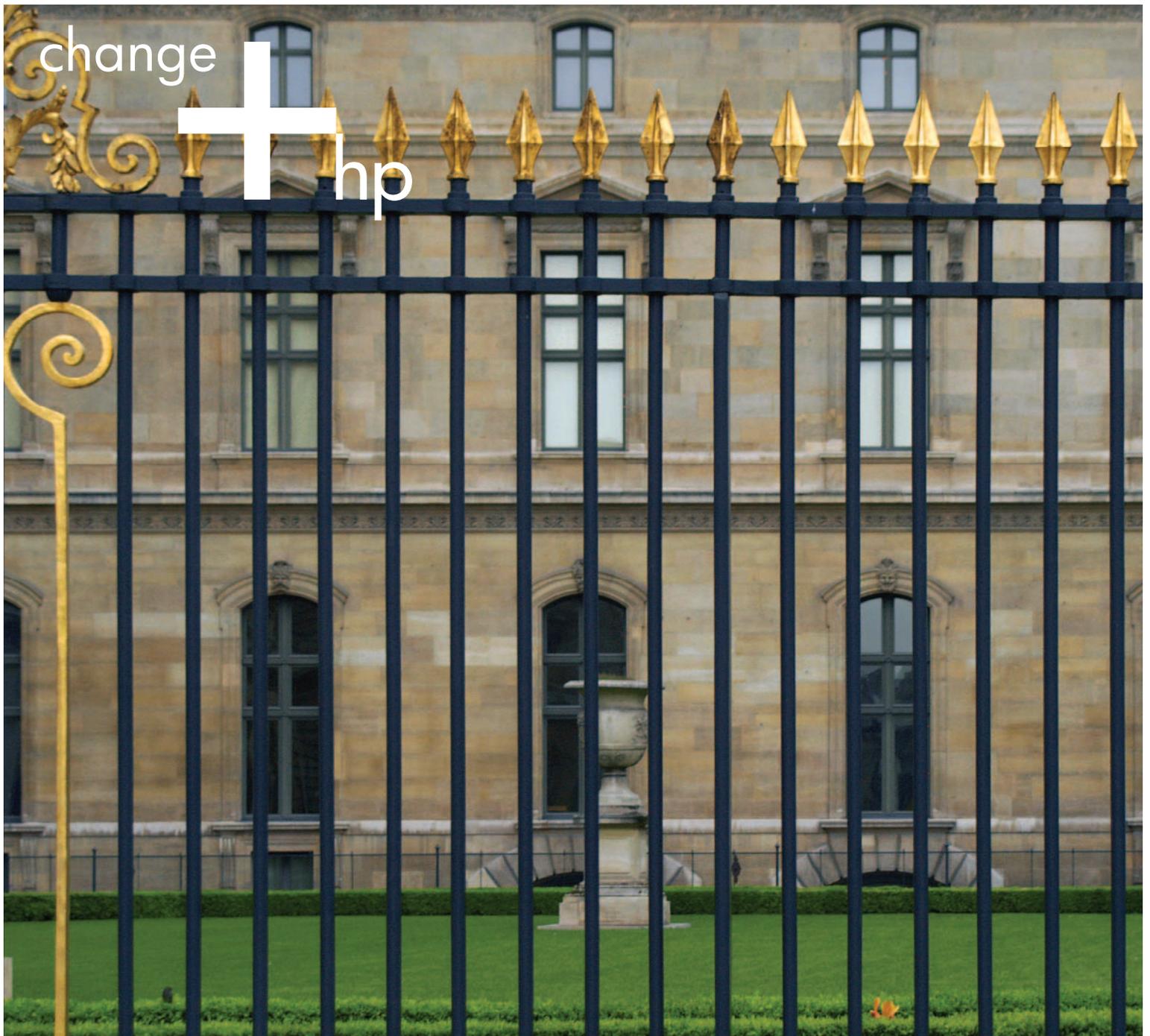
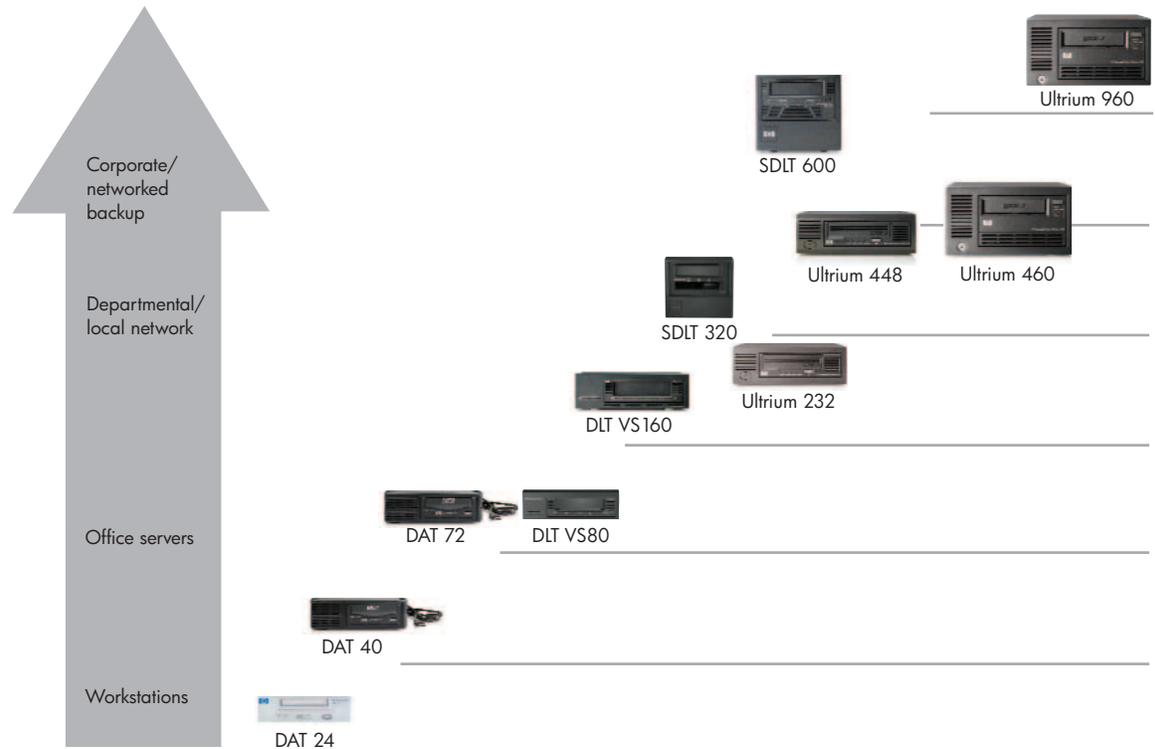


Solutions for the adaptive enterprise.



HP StorageWorks tape drives and autoloaders





Choose the right tape technology for your needs.

Tape storage has been around for decades, and yet technological advancements have allowed tape to keep up with the times. Tape continues to offer an unbeatable combination of features that assures its place as the foundation of any data protection strategy. It has outpaced disk storage in capacity and speed, its removable media provides virtually infinite capacity, the small size and portability of media makes offsite storage practical, and no other data storage technology offers such a low cost per gigabyte. Whether used on its own or as part of a multi-level data protection strategy with RAID, snapshot, or cloning technologies, only tape can protect your business from a full range of dangers: user error, data corruption, equipment failure, equipment theft, virus and hacker attacks, and site destruction from fire, flood or other catastrophic disasters.

HP has been at the forefront of tape technology for almost 20 years. We offer a range of tape technologies that can suit the needs—and the budget—of every business. HP's expertise and substantial R&D investment in tape technology has given HP tape products their well-deserved reputation for innovation, quality, and reliability. Who else would you trust with your most valuable asset—your data?

LTO Ultrium technology

Based on LTO format for highest capacity, performance and reliability

- Capacities up to 800 GB of compressed data per data cartridge
- Unmatched performance and reliability
- Suitable for heterogeneous environments
- Choose from high-performance full-height or affordable half-height drives

SDLT and DLT VS technology

For those who need to continue with their DLT investment

- Capacities up to 600 GB of compressed data per cartridge
- Direct-attach backup for midrange and high-end servers
- Choose from high-capacity SDLT or affordable DLT VS drives

DAT/DDS technology

Affordable and reliable backup for entry-level servers and workstations

- Capacities up to 72 GB of compressed data per cartridge
- Proven track record of dependable backup
- Remarkably low media prices contribute to a very low cost of ownership
- Two-generation backward read-write compatibility



HP StorageWorks Ultrium tape drive family—highest capacity, performance and reliability

HP StorageWorks Ultrium tape drives are HP's premier family of backup devices. The LTO Ultrium open format and well-defined six-generation technology roadmap give you the assurance of continued support and new capabilities for years to come.

To qualify for the Ultrium logo, HP must first ensure compliance with tough interchange specifications for Linear Tape-Open (LTO) drives and media. To wear the HP brand, drives and data cartridges must pass an additional battery of tests that relate directly to the product's use in real-life situations when real data and real businesses are at stake. It's the most extensive testing in the tape business. Don't settle for less—get products with the highest standards in the industry.

Our testing doesn't stop at product quality, however. HP tests its Ultrium drives with a broad range of operating systems, backup software and servers, making them ideal for many direct-attach and over-the-network backup applications, especially in heterogeneous environments.

From mid-range to enterprise backup, the HP Ultrium tape drive family offers a choice of models that offer superior reliability and excellent value. Choose from high-performance full-height drives or affordable half-height drives. Both meet the LTO Ultrium format standard, so media is fully compatible across the range, as well as with Ultrium drives from other manufacturers.

Our latest generation of LTO products also supports write once read many (WORM) technology. Using special Ultrium WORM data cartridges, the Ultrium 960 tape drive can write unalterable data archives that satisfy the most stringent regulatory requirements.

Ultrium Six-Generation Roadmap

	Compressed Capacity	Compressed Transfer Rate	
Generation 1	200 GB	up to 40 MB/s	
Generation 2	400 GB	up to 80 MB/s	
Generation 3	800 GB	up to 160 MB/s	
Generation 4	1.6 TB	up to 240 MB/s	
Generation 5	3.2 TB	up to 360 MB/s	
Generation 6	6.4 TB	up to 540 MB/s	

Source: The LTO Program 2004

All HP StorageWorks Ultrium tape drives offer:

- **Ultimate reliability:** Sets the standard for data integrity and mechanical reliability with a simple and robust design based on inherently reliable LTO technology
- **Superdrive capacity:** Stores more per data cartridge than any other mainstream tape format
- **High performance:** Combines high data transfer rates with HP's exclusive data rate matching feature, which automatically adjusts to the speed of the server and network to optimize performance in any environment



HP StorageWorks
Ultrium 960 tape drive



HP StorageWorks
Ultrium 460 tape drive



- *Peace of mind:* Includes HP One-Button Disaster Recovery (OBDR), simply the fastest way to recover from a system disaster—restores your entire HP ProLiant system at the touch of a button
- *A complete solution:* Comes with media, cables, and backup software (single-server editions of both HP OpenView Storage Data Protector for Windows® and Yosemite Technologies TapeWare XE)
- *Security:* Create legally compliant data archives with LTO-3 WORM tape
- *Versatility:* Tested with a broad range of servers, operating systems and backup packages—available in internal, external, hot-swap and rack-mounted models to suit any environment
- *Dependability:* Performs automated cleaning, increasing head life and reducing cleaning cartridge usage; soft-load feature automatically takes the data cartridge and moves it gently into the load position; and fail-safe leader capture mechanism virtually eliminates lost tape leaders
- *Manageability:* Installation, performance tuning, management and troubleshooting are a snap with HP StorageWorks Library and Tape Tools (L&TT) utilities

High-performance, full-height Ultrium tape drives

Delivering the ultimate in capacity and performance, HP's line of full-height Ultrium tape drives are ideal for enterprise-class data protection, particularly where the backup window is shrinking.

HP StorageWorks Ultrium 960 tape drive

Blazing performance and maximum capacity for enterprise-class data protection

- Full-height drive based on the latest LTO-3 format
- Stores 800 GB of compressed data on a single cartridge*
- Fastest tape drive in the world—data transfer rate of 160 MB/s—stores 800 GB of data in well under two hours*
- Read- and write-compatible with all Ultrium 2 and Ultrium 3 media; read compatible with Ultrium 1 media
- Provides a secure method for archiving compliant records using Ultrium WORM media

HP StorageWorks Ultrium 460 tape drive

Unmatched reliability ideal for mid-range servers

- Full-height LTO-2 tape drive
- Stores 400 GB of compressed data on a single cartridge*
- High-performance backup—data transfer rate of 60 MB/s
- Outstanding track record for trouble-free operation
- Read- and write-compatible with all Ultrium 1 and Ultrium 2 media

* Assumes 2:1 data compression

NEW



HP StorageWorks
Ultrium 448 tape drive

NEW



HP StorageWorks
Ultrium 232 tape drive

Affordable, half-height Ultrium tape drives

HP's line of half-height Ultrium tape drives makes superdrive capacity and reliability economical enough for midrange servers. These compact drives install easily into most standard 5.25-inch, half-height server and workstation bays.

NEW! HP StorageWorks Ultrium 448 tape drive

Outstanding capacity and performance at an affordable price

- Half-height LTO-1 tape drive
- Stores 400 GB of compressed data on a single cartridge*
- Data transfer rate of 48 MB/s—stores 400 GB of data in less than two hours
- Read- and write-compatible with all Ultrium 1 and Ultrium 2 media

NEW! HP StorageWorks Ultrium 232 tape drive

Space-efficient entry point ideal for workstations and servers

Our newest Ultrium-format tape drive—unbeatable performance and the lowest price of any LTO tape drive.

- Half-height LTO-1 tape drive
- Stores 200 GB of compressed data on a single cartridge*
- Data transfer rate of 32 MB/s—stores 200 GB of data in less than two hours

* Assumes 2:1 data compression

When you choose a data backup and recovery solution, you select an insurance policy for the most precious commodity your company owns—its data. The value of a reliable solution cannot be understated. A well-thought-out backup and recovery strategy protects your data from software viruses, human error and natural disasters.

HP StorageWorks SDLT/DLT VS technology—store and restore data with confidence

HP StorageWorks SDLT and DLT VS technology, recognized for its high capacities, is ideal for customers who need to continue with their investment in DLT. Building on the technologies pioneered in the popular DLT format, SDLT and DLT VS offer a choice of upgrade paths for DLT users: the high-capacity, high-performance Super DLT or the compact and affordable DLT VS.

Designed and tested for use with HP ProLiant servers and HP AlphaServers, HP StorageWorks DLT VS and SDLT tape drives span a wide range of needs from entry-level to enterprise servers.

HP StorageWorks SDLT tape drives are ideally suited for data center and departmental backups where capacity and performance are critical. SDLT tape drives use SDLT tape media, and the SDLT 320 also offers backward read-compatibility with DLTape IV media, providing an upgrade path from previous generations of DLT tape drives.

The latest generation of SDLT—the SDLT 600—offers write once read many (WORM) support on the new HP Super DLTape II 600 GB data cartridge. WORM tape can be used as part of an organization's procedures to comply with data retention regulations.

HP StorageWorks SDLT and DLT VS tape drives offer:

- *High capacity:* Up to 600 GB of capacity on a single data cartridge, reducing the number of cartridges needed to complete a backup
- *High performance:* Reduces the backup window
- *A complete solution:* Comes with media, cables, and backup software
- *Investment protection:* Backward read-compatibility provides an upgrade path from previous DLT generations
- *Security:* Create legally compliant data archives with WORM tape
- *Versatile:* Internal, external, and rack-mount models available
- *Manageability:* Installation, performance tuning, management and troubleshooting are a snap with HP StorageWorks Library and Tape Tools (L&TT) utilities

NEW



HP StorageWorks SDLT 600 tape drive



HP StorageWorks SDLT 320 tape drive

High-capacity Super DLT tape drives

The SDLT platform extends the advantages of DLT technology by increasing capacity, performance, and reliability through technological advances in drive head and media design.

NEW! HP StorageWorks SDLT 600 tape drive

High capacity for enterprise-class servers

- Full-height, second-generation SDLT technology
- 600 GB compressed capacity*
- Data transfer rate of 72 MB/s*
- Backward read-compatible with media written by SDLT 320 and DLT VS160
- Supports HP One-Button Disaster Recovery
- Create legally compliant data archives with WORM tape
- Includes a single-server edition of HP Storage Data Protector which provides data protection and disaster recovery for your enterprise and Yosemite Technologies TapeWare XE which offers entry-level support for a single server in a Windows, Linux® or NetWare environment.

HP StorageWorks SDLT 320 tape drive

Provides an upgrade path that protects your investment in DLT technology

- Full-height, first-generation SDLT format
- 320 GB compressed capacity*
- Data transfer rate of 32 MB/s*
- Backward read-compatible with media written by DLT1, DLT VS80, DLT 40, DLT 70 and DLT 80 tape drives
- Supports DRTape disaster recovery solution
- Includes a single-server edition of HP Storage Data Protector which provides data protection and disaster recovery for your enterprise and Yosemite Technologies TapeWare XE which offers entry-level support for a single server in a Windows, Linux® or NetWare environment.

NEW



HP StorageWorks DLT VS160 tape drive



HP StorageWorks DLT VS80 tape drive

Compact and affordable DLT VS tape drives

DLT VS tape drives offer customers many of the same technological features found in previous-generation DLT drives, with improved capacity and performance and a compact, half-height form factor.

NEW! HP StorageWorks DLT VS160 tape drive

Economical DLT VS format—now with double the capacity and more than twice the performance

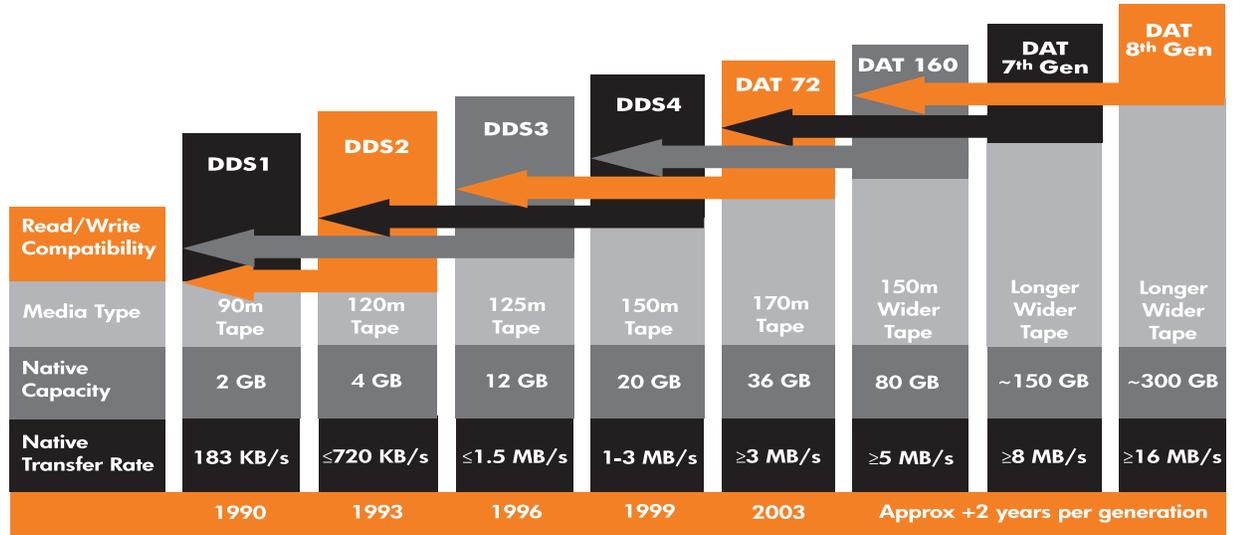
- Half-height, second-generation DLT VS technology
- 160 GB compressed capacity*
- Data transfer rate of 16 MB/s*
- Backward read-compatible with media written by DLT VS80 tape drives
- Includes a single-server edition of Yosemite Technologies TapeWare XE which offers entry-level support for a single server in a Windows, Linux or NetWare environment.

HP StorageWorks DLT VS80 tape drive

Low-cost DLT backup for entry-level and mid-range servers

- Half-height, first-generation DLT VS technology
- 80 GB compressed capacity*
- Data transfer rate of 6 MB/s*
- Backward read-compatible with media written by DLT 40 tape drives
- Includes a single-server edition of Yosemite Technologies TapeWare XE which offers entry-level support for a single server in a Windows, Linux or NetWare environment.

* Assumes 2:1 data compression



HP StorageWorks DAT tape drives—the perfect balance between low cost and high reliability for backing up entry-level servers and workstations

DAT meets small and medium business user needs better than any other technology.

Since its introduction, Digital Data Storage (DDS), also referred to as DAT, has had a huge following in the PC server backup market, with a current installed base estimated at over 9 million drives. This remarkable tape technology continues to flourish because of its ability to meet the needs of small and medium businesses (SMBs) for reliable, cost-effective backup. As the long-established market leader, HP has continued its commitment to DDS with the introduction of the industry's first DAT USB drives.

The HP StorageWorks family of DAT tape drives is the first choice for data protection for many SMBs with entry-level servers and workstations. HP DAT drives are also frequently used for operating system backup and software loading on mission-critical servers in many large enterprises.

HP StorageWorks DAT drives are available with a range of capacities (from 24 GB to 72 GB and a choice of interfaces). Many customers will benefit from the new USB 2.0 interface, which gives real meaning to the term “plug-and-play” and helps avoid SCSI resource conflicts. SCSI interfaces are also available for servers requiring SCSI connectivity.

Because it's based on an open standard that has become an industry standard, DDS has solid roadmap for the future, with a sixth generation on the horizon and seventh and eighth generations in development. DDS technology has the advantage of extremely low-cost media, making the total cost of ownership of a DAT backup solution very low. HP DDS (DAT) drives also offer superb two-generation backward read- and write-compatibility, providing excellent investment protection for customers who must balance cost, capacity, and performance.

NEW



HP StorageWorks
DAT 72 USB tape drive

HP DAT drives come with a single-server copy of TapeWare XE, an easy-to-use backup and disaster recovery package for small businesses. The tape drives and software together support HP One-Button Disaster Recovery. OBDR can rapidly restore or replicate a ProLiant server's operating system, software applications, and data using only a data cartridge. With the touch of a button, the tape drive emulates a CD-ROM, allowing the server to boot from tape.

With this winning combination of features and value, it's no wonder that DDS continues to lead the entry-level backup market.

HP StorageWorks DAT drives deliver:

- *Cost-effective backup:* Affordable tape drives and economical DAT media give DAT a very low cost of ownership, and the new USB 2.0 eliminates the additional cost of host-bus-adapters
- *Reliability:* Dependable backup technology proven over many generations
- *Ease of use:* Out of the box and ready to use in less than 60 seconds with plug-and-play USB 2.0 interface
- *Peace of mind:* Includes HP One-Button Disaster Recovery (OBDR), simply the fastest way to recover from a system disaster—restores your entire HP ProLiant system at the touch of a button
- *A complete solution:* Includes media, cables and TapeWare XE backup software to get you up and running quickly

- *Space efficiency:* Compact form factor fits in virtually any half-height bay
- *Versatility:* Tested with a broad range of servers, operating systems and backup packages—available in internal, external, hot-swap and rack-mounted models to suit any environment

HP StorageWorks DAT 72 USB tape drive

Reliable data protection ideal for storage-hungry applications

- New USB 2.0 interface available on internal and external models for easy plug-and-play installation
- Latest generation of DDS technology
- 72 GB compressed capacity*
- Data transfer rate of 6.4 MB/s*
- Backward read- and write-compatible with DDS-4 and DDS-3
- SCSI models available include internal, external, rack-mount, hot-plug for HP ProLiant servers and AlphaServers and hot-swap array modules for the Tape Array 5300 rack enclosure

NEW



HP StorageWorks
DAT 40 USB tape drive



HP StorageWorks
DAT 24 tape drive

HP StorageWorks DAT 40 USB tape drive

Fast, reliable backup for workstations and small server

- New USB 2.0 interface available on internal and external models for easy plug-and-play installation
- DDS-4 technology
- 40 GB compressed capacity*
- Data transfer rate of 6.4 MB/s*
- Backward read- and write-compatible with DDS-3 and DDS-2
- SCSI models available include internal, external, rack-mount, hot-plug for HP ProLiant servers and AlphaServers and hot-swap array modules for the Tape Array 5300 rack enclosure

HP StorageWorks DAT 24 tape drive

Unbeatable value for workstations and small servers

- DDS-3 technology
- 24 GB compressed capacity*
- Data transfer rate of 2 MB/s*
- Backward read- and write-compatible with DDS-2 and DDS-1
- Available models: internal, external, rack-mount, and hot-swap array modules for the Tape Array 5300 rack enclosure

* Assumes 2:1 data compression



HP StorageWorks tape autoloaders—where versatility and flexibility meet

HP StorageWorks tape autoloaders carry out unattended backup that frees up your IT resources and minimizes the risk of human error. There's a choice of tape technologies, with a range of capacity and performance that suits anything from an entry-level server to a mid-range departmental server, and HP autoloaders are easy to install and easy to use for direct-attach or over-the-network backup.

HP StorageWorks SSL1016 tape autoloader

Space-conscious solution for entry to mid-range servers and applications

Combining tape library features and capacity with the compact form of an autoloader, the HP StorageWorks SSL1016 tape autoloader is in a class of its own. Ideal for replicated systems, the web-based management feature reduces dependence on local IT resources, allowing central support to multiple sites. This increases manageability of backup and recovery by enabling administrators to monitor and control the unit from across the room or across the globe.

With a native capacity of up to 3.2 TB, the SSL1016 tackles many jobs previously in the domain of entry-level libraries. The SSL1016 has a form factor of 2U, which gives you a large amount of storage without consuming a large amount of valuable rack space. Supporting the Ultrium 460 and SDLT 320 tape drives, the SSL1016 tape autoloader gives you a range of storage capacities. The new SSL1016 platform incorporates many tape library features such as bar code reading enabling shorter inventory times and better media management. Plus, bulk handling of media is accomplished through two eight-slot magazines.

The SSL1016 tape autoloader easily integrates into a data protection solution for entry to mid-size servers and applications.

The HP StorageWorks SSL1016 tape autoloader is:

- *Manageable*: Web-based remote manageability allows monitoring and management from anywhere in the world
- *Automated*: Features a standard bar code reader for improved media management
- *Compact*: 2U device saves valuable rack space
- *High-capacity*: Stores up to 6.4 TB (compressed) of data with Ultrium 460 technology
- *Efficient*: Uses two removable eight-slot magazines for bulk-loading of tape media
- *Affordable*: Provides library features in the form factor and price range of a tape autoloader
- *Diverse*: Supports Ultrium 460 and SDLT 320 drive technologies
- *Reliable*: Modular design allows quick repair to reduce product downtime
- *Integrated*: Ability to factory rack integrate with other HP products such as ProLiant servers
- *Compatible*: Runs with leading operating systems and backup software



HP StorageWorks
SSL1016 tape autoloader



HP StorageWorks
1/8 tape autoloader

HP StorageWorks 1/8 tape autoloader

Ideal data backup solution for multiple servers

Designed for basic data protection, the HP StorageWorks 1/8 tape autoloader provides cost-effective, easy-to-install unattended backup. No more struggling to remember to change tapes or start backup programs. This reliable backup technology gives you peace of mind.

The 1/8 tape autoloader is equipped with either an Ultrium 960, Ultrium 448, Ultrium 230, SDLT 320, or a DLT VS80 drive. Although the 1/8 tape autoloader is compact, requiring only a 2U rack space, it can house up to eight cartridges. It allows you to develop a tape rotation scheme for scheduled backup on servers for daily rotational backup of 8400 GB (compressed) or less. The Ultrium and SDLT versions are ideal consolidated backup solutions for multiple servers where high throughput and high capacity are required. For users who have less stringent capacity and throughput requirements, HP recommends the DLT VS80 tape drive. Models come with HP OpenView Data Protector Single-Server Edition for Microsoft® Windows 2000/NT/2003/XP. Managing backup and recovery from both disks and tapes, this software delivers maximum data protection while providing continuous 24x7 business operations. A separate accessory kit is available for rack mounting the tape autoloader.

The HP StorageWorks 1/8 tape autoloader is:

- **Affordable:** Automates the backup process at a price comparable to stand-alone drives
- **High-capacity:** Stores up to 3.2 TB (native) of data with Ultrium 960 technology
- **Reliable:** Provides consistent backup and automatically changes tapes
- **Efficient:** Allows IT resources performing manual backups to work on other critical tasks
- **Compact:** Holds eight cartridges and one drive in 2U of rack space
- **Evolutionary:** Provides easy transition from stand-alone tape into automated tape backup
- **Compatible:** Works with leading operating systems and backup software
- **Investment protection:** SDLT 320 version is backward read compatible with media written on by DLT 4000, DLT 7000, DLT 8000, DLT1 and DLT VS80 drives, backwards read/write compatible with media written on by SDLT 220 drives
- **Diverse:** Supports Ultrium 960, Ultrium 448, Ultrium 230, SDLT 320 and DLT VS80 drive technologies



HP StorageWorks
DAT 72x6 tape autoloader

HP StorageWorks DAT 72x6 tape autoloader

Cost-effective backup solution for entry to mid-range servers

The HP StorageWorks DAT tape autoloader offers simple unattended backup, employing a media management and tape rotation scheme for scheduled backup of smaller servers. The DAT tape autoloader provides six slots, allowing for one cartridge per day, plus a weekly cleaning cycle. If a tape is full, the backup will continue on the next tape, offering scalability and backup assurance. Available as an internal model (fitting into a standard, full-height bay) or as an external model (sitting on a desk), the DAT 72x6 tape autoloader offers compatibility with a broad range of servers, operating systems and backup software.

The HP StorageWorks DAT tape autoloader is:

- *Affordable*: The lowest cost autoloader HP offers, made even more affordable by using inexpensive DAT media
- *Easy*: Simply load the magazine with a week's worth of data cartridges, and the autoloader takes care of back-up for an entire week.
- *Dependable*: Automation reduces the risk of human error.
- *Reliable*: Supports HP One-Button Disaster Recovery (OBDR) on HP ProLiant systems, for fast, easy recovery from a variety of system disasters
- *A complete solution*: Includes media, cables and a single-server copy of TapeWare XE software— everything you need to get you up and running quickly
- *Scalable*: Automatically continues on to the next tape when the tape is full



HP storage media and HP diagnostic tools and features

HP storage media

You need to know your media gives you the best recovery in the industry. HP understands there are no second chances when it comes to data recovery. The tiniest imperfection could ultimately put someone out of business. Because HP doesn't take risks with the core of your business, we require higher quality standards and specifications than other brands.

Raising the bar on industry standards

Our innovative quality control facility features 20 custom-built test chambers in use 24x7. The test program involves over 70,000 tests and 1.3 million test hours annually. We push the technology to its limits, putting it through extreme conditions of temperature, altitude and humidity. HP media is designed, manufactured and tested as part of a complete system using multiple drives and pieces of media. These standards ensure consistent results using a variety of drive and cartridge combinations. We demand far more from our tape than is needed to qualify for industry-standard logos. Your critical data demands the highest standards, and before the HP name goes on it, we exceed those standards.

Why choose HP storage media?

HP is a leader in storage supplies, offering Ultrium, SDLT, DLT, DDS/DAT, AIT, Travan, MO and UDO. HP designs and tests media and drives to work together to give you a data backup solution with optimum performance and guaranteed compatibility. HP media is fully compatible with HP hardware products. HP also works to ensure that all HP storage media is cross-compatible in other manufacturers' drives, libraries, autoloaders and jukeboxes. When you choose HP media, you get the ultimate in protection. Data is written and stored on the media, not the drive. HP understands data backup is only as good as the media's ability to restore, retrieve and protect data. HP ensures its media works in tandem as part of a storage backup solution with the drive. This is why HP quality control requirements surpass industry standards.

We work closely with suppliers to achieve unsurpassed quality. We are the only brand to perform such detailed checks to ensure all suppliers adhere to quality control programs. Plus, to ensure complete customer satisfaction on all HP storage supplies, we report incompatibility issues on non-HP platforms. HP is technology-driven and invented or co-developed many of the leading storage technologies like: Ultrium, WORM magneto-optical and DDS/DAT. We invest over \$400 million annually in storage research and development.

Our solutions are easy to purchase, easy to use and easy to support... HP puts the solution together, so you don't have to.

For additional information on storage media visit:
www.hp.com/go/storagemedia.



HP StorageWorks Library and Tape Tools (L&TT)

HP knows you rely on your system to function at full capacity, and if downtime should occur, you need immediate corrective actions. HP answers this challenge with a diagnostic tool that's not only free, but also sets industry standards in reliability and convenience. The HP StorageWorks L&TT is a single, convenient program that's a snap to install and simple to operate. L&TT's self-repairing, proactive preventative maintenance and downtime analysis functions make quick troubleshooting a reality.

This easy-to-use technology is:

- *Affordable:* Provided to HP customers via a free download from the HP website listed below
- *Simple:* Requires no training, with an intuitive user interface that is easy to install and operate
- *Comprehensive:* Troubleshoots system performance issues through the use of analysis tools
- *Expansive:* Delivers web-based smart firmware downloads, updates and notifications
- *Efficient:* Performs transparent checks and parallel updates on multi-drive devices using robust firmware downloads
- *Proactive:* Executes automatic device failure analysis
- *Self-diagnosing:* Offers the ability to perform first level of failure analysis without HP involvement
- *Complete:* Creates an all-inclusive source of device information for your support center
- *Integrated:* E-mails support tickets from the program
- *Well-connected:* Simplifies information flow to your support centers

HP StorageWorks L&TT may be downloaded at:
www.hp.com/support/tapetools.

HP One-Button Disaster Recovery (OBDR)

Now you can restore your entire HP ProLiant system quickly and reliably by simply inserting the most recent backup tape and pushing one button on the tape drive. This HP StorageWorks tape drive feature will restore your operating system, configuration, applications, drivers and data files. There's no longer a need to search for software disks and manuals. Plus, with downtime reduced, the cost implications are minimized. There's no need to make a new set of disaster recovery disks each time the network configuration is altered or a peripheral is added.

OBDR is the best disaster recovery product for small to medium-sized businesses. Simply push a button and breathe a sigh of relief. HP has built OBDR into all HP StorageWorks DAT and Ultrium format tape drives. For a current list of servers, workstations and software supported by this evolutionary feature and tape backup compatibility, visit: www.hp.com/go/connect.

HP OpenView Storage Data Protector

HP knows you can't afford costly downtime. With HP OpenView Storage Data Protector software you get the assurance of enterprise data protection and disaster recovery from any disruption. Data Protector's backup capabilities eliminate planned downtime and range from online backup, backup of open files with zero-downtime and zero-impact backups. And with Data Protector's industry-leading instant recovery and disaster recovery alternatives, you can recover your entire data center in minutes.

Data Protector helps reduce costs by automating routine tasks and maximizing the effectiveness of your data protection staff. For the price of an entry-level product, it provides enterprise functionality. Plus, Data Protector scales from single server to distributed enterprise, covering an extensive range of heterogeneous applications, operating environments and storage configurations with a single solution. For more information, visit: <http://www.hp.com/go/storageworks/software>

Compatibility with non-HP server platforms

HP StorageWorks tape devices are the perfect data protection solution for HP servers, but that's not all. We also test and qualify HP tape products with other leading server platforms. When you choose HP StorageWorks, you get a versatile backup solution that fits your existing server environment.

Choosing the right tape device for your needs

For information on the right device to meet your growing business needs, visit www.hp.com/go/tape, and click on "HP StorageWorks backup sizing tool" in the value-add features section. This Microsoft Windows-based tool allows you to size and configure your ideal backup solution using information you specify. Download, install and run this tool to configure the award-winning Enterprise Backup Solution with certified ISV backup applications. For information on hardware and software compatibility, visit www.hp.com/go/connect.



Success stories—HP partner relationships that support success

To help you in your investment decisions, HP offers you the following customer success story for insight, information and solutions. HP believes in creating partner relationships that support IT managers for success.

National Medical Health Card Systems, Inc.

In a highly competitive industry, National Medical Health Card Systems, Inc. (NMHC) must manage demanding corporate growth. The company needs superior data reliability, industry-leading technology and the flexibility to scale up to support exponential storage growth—an intricate challenge.

“When we considered the HP storage architecture, we realized that HP has the strongest storage vision as well as superior technologies,” says Mark Deck, Director of Infrastructure Technology, National Medical Health Card Systems, Inc. “HP is the clear leader in open standards SANs. And, its enhanced virtualization technology greatly simplifies storage management, while significantly improving our storage utilization across multiple operating environments.”

Adds NMHC’s CIO Agnes Hall: “HP delivers very cost-effective storage solutions and the tireless teamwork of HP and CDI helped us to realize our return on investment (ROI) promptly. Together, we completed our corporate systems redesign and implementation ahead of schedule, considerably under budget, and with all our business critical service level agreements (SLAs) fulfilled.”

“We are impressed by the speed of the new LTO drives. They clock in at twice the speed and capacity of the previous drives, which adds significantly to our overall backup management speed.”

— Mark Deck, Director of Infrastructure Technology, National Medical Health Card Systems, Inc.

Today, HP OpenView Storage Data Protector software backs up all enterprise data from the SANs, provides load balancing of the systems, and operates with robotic HP StorageWorks tape libraries and Ultrium Linear Tape-Open (LTO) tape drives. “We are impressed by the speed of the new LTO drives,” says Deck. “They clock in at twice the speed and capacity of the previous drives, which adds significantly to our overall backup management speed.” NMHC’s corporate backup activities now require only one person working less than half time. This yields lower personnel costs, increased accuracy and maximum reliability.

“HP OpenView Storage Data Protector software, coupled with the speed of our new StorageWorks Ultrium drives, really streamlines our enterprise backup and management process,” emphasizes Deck. Recalling his decision to implement HP StorageWorks solutions, Deck appreciates the reduced complexity of storage management and improved SLA delivery. Deck concludes, “These HP products make my job more enjoyable and interesting because I’m working with state-of-the-art technology that is reliable and allows me to truly relax and enjoy my time off. In addition, HP StorageWorks solutions enable NMHC to greatly improve our service guarantees and will continue to meet our needs well into the future.”

For more success stories on HP storage products and solutions, please visit: <http://h18006.www1.hp.com/storage/casestudies/index.html>.

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To learn more about how HP StorageWorks tape drives and autoloaders can streamline the data protection process for your businesses, visit: www.hp.com/go/tape.

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