



HP's Ultimate Business Protection — Affordable Data Protection for Small Enterprises

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Management Summary

Running backup jobs is one of the most unglamorous jobs in IT today. Backups need to be set up and monitored daily. If they run successfully, no one hears about it. If the backup job fails, and the error is not discovered until a restore operation is required, then too many people know about it. For many small enterprises, backups often are just another task delegated to some overworked employee. In many cases, this overworked employee is not IT savvy. Yet, **the need to backup and protect data is as important for smaller enterprises as it is for larger corporations.**

It is not just the news breaking headlines about hurricanes, floods, and tornados that represent the most serious threats for companies. In fact, the majority of data loss or corruption is caused by human errors. The newest threat – the increase in the number and severity of email viruses - affects companies both large and small. A virus attack can cripple businesses for days, if data cannot be quickly recovered. Every company needs to be able to restore their data quickly when an error, virus, or hardware malfunction, corrupts or destroys their data. The continued operation of their business depends on their ability to recover quickly. Large enterprises have dedicated staff to monitor and manage backups. **Smaller companies and remote locations that do not have the luxury of dedicated IT personnel need products that can be quickly implemented and easily managed to back up (and more importantly) restore their data.**

HP has introduced some new products, and some enhancements to existing products, that are designed to protect the data of small enterprise customers. These new products are part of HP's *Ultimate Business Protection* portfolio. *Ultimate Business Protection* is part of the *HP Simply StorageWorks* program, which includes products, software, and services to help small enterprises deploy easy-to-use solutions. Also included in the *Simply StorageWorks* program are *My First SAN* and *Easy as NAS*, which allow customers to set up SAN or NAS storage environments easily.

The new and enhanced products are: HP *StorageWorks 1000i Virtual Library System*, HP *StorageWorks Data Protector Express*, HP *StorageWorks MSL4048* tape library, and HP *StorageWorks DAT and Ultrium Storage Media Kits*. Read on to learn more about each of these products.

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HP StorageWorks 1000i Virtual Library System

HP's newest virtual tape system is designed specifically for the small business or remote office. The appeal of virtual tape systems is simple – customers can direct their backup jobs to disk rather than tape without requiring any changes to the backup process. When data needs to be restored, the restoration process can be completed quickly at disk speeds. In fact, the 1000i is capable of transmitting and receiving data at rates up to 58 megabytes per second. At a later time, the disk-resident backup copies can be copied to tape for off-site storage, if required.

This appliance is built on HP's *Proliant* server with Adaptec RAID technology. The first model of this virtual tape family is the *VLS1002i*, which consists of four 500 GB SATA drives for 1.5 TB of usable capacity. Future models will take advantage of higher-capacity disk drives to increase the amount of usable capacity without increasing the small 1U footprint.

This appliance can emulate up to twelve HP LTO2 tape drives, six of which can be configured as an HP autoloader, with up to 180 virtual tape cartridges. Its iSCSI connectivity allows this appliance to be installed in any location using an existing Ethernet network.

HP StorageWorks 1002i Virtual Library System will work with most ISV backup applications today. Customers not loyal to any particular backup product can also use the single-server edition of *Data Protector Express*, which ships with the virtual tape system at no additional charge. The list price for the 1002i Virtual Library System is about \$6,000.

HP StorageWorks MSL4048 Tape Library

The *MSL Series* have been designed for the small-to-mid-size businesses that need automated tape libraries. The *MSL4048* has twice the capacity of the *MSL2024* but less capacity than the *MSL6060*. The *MSL4048* supports up to two *Ultrium 960* (LTO3) SCSI drives or up to four *Ultrium 448* (LTO2) half-height SCSI drives. The library holds 48 LTO cartridges. Customers that use LTO3 technology can store over 19 TBs of native or uncompressed data within a 4U format. Compression usually can double that capacity. Support for Fibre Channel drives will follow shortly. There is no support for SDLT drives in this model. SDLT customers will need to evaluate HP's *MSL6026* or *MSL6052* tape library. The starting list price for the *MSL4048* is \$11,300.

HP StorageWorks Data Protector Express

HP *StorageWorks Data Protector Express* is a backup and recovery product specifically designed for small-to-mid-size businesses. It is easy to install and use and will write backups to tape, disk, DVDs or other removable media. This product is not new – it was introduced in October 2005. What is new is the

integration of *Data Protector Express* with HP *Data Protection Storage Server (DPSS)*. *DPSS* is HP's NAS appliance that runs Microsoft's *Data Protection Manager (DPM)*.

DPM allows customers to create near-continuous backups of Microsoft files. These backups, or replicas, are stored on disk by the machine running *DPM*, in the case of HP customers, the *DPSS*. If a file is accidentally deleted or corrupted, the file can be quickly restored from the *DPSS* by an end user or an administrator. *DPM* does not have an easy way to create tape copies of disk-resident replicas to take offsite for disaster recovery. The addition of *Data Protector Express DPSS Agent* solves that problem. Tape copies can be created automatically while *DPSS* is online. If a disaster occurs on a *DPSS*-protected file server, files can be restored from the *DPSS* or directly from *Data Protector Express*. This eliminates the need to have a second *DPSS* at a remote location. Additionally, the *Data Protector Express DPSS Agent* allows disaster recovery to be provided for the *DPSS* so that if this machine has a failure it can be made operational again as fast as possible. The list price for *Data Protector Express* is \$779. The agent for *DPSS* costs \$979.

HP Storage Media Kit

HP has put together three tape storage media kits to ensure that small-to-mid-size companies have all the storage media products they need. Each media kit contains a full complement of HP storage media (either twenty LTO1, twenty LTO2, or fourteen DAT72 cartridges), a storage media case to transport or store cartridges, a cleaning cartridge, tape labels, an evaluation copy of *Data Protector Express*, and a guide to creating successful tape backups. List prices for the Storage Media Kits vary from \$375 for the DAT kit to \$1,535 for LTO2 kit.

Conclusion

Large enterprises have dedicated staff to establish and monitor backup processes. For many small businesses (and remote offices), that responsibility is given to an already-overworked employee, who is probably not familiar with current best practices for data protection. **What these smaller businesses need are solutions that are easy to install and manage and to provide the right levels of data protection.**

HP is providing these solutions with the Ultimate Business Protection suite of products. A small enterprise can choose a virtual tape system, small tape library, data protection software, and get a package of media and cleaning cartridges, all for less than \$25,000. That's a small price to pay to ensure that your data can be restored - if and when a disaster or human error occurs.



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About the Author

Dianne McAdam is Director of Enterprise Information Assurance for the Clipper Group. She brings over three decades of experience as a data center director, educator, technical programmer, systems engineer, and manager for industry-leading vendors. Dianne has held the position of senior analyst at Data Mobility Group and at Illuminata. Before that, she was a technical presentation specialist at EMC's Executive Briefing Center. At Hitachi Data Systems, she served as performance and capacity planning systems engineer and as a systems engineering manager. She also worked at StorageTek as a virtual tape and disk specialist; at Sun Microsystems, as an enterprise storage specialist; and at several large corporations as technical services directors. Dianne earned a Bachelor's and Master's degree in mathematics from Hofstra University in New York.

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