



SIMPLIFY BACKUPS

DELL™ POWERVAULT™
DL2000 FAMILY



SIMPLIFYING IT

The Dell™ PowerVault™ DL2000 family helps reduce the cost and complexity of backups and restores, freeing up valuable resources that you can apply to make innovation a daily business practice. We designed these fully integrated disk-based backup solutions to be up and running in minutes and simple to manage. If you've worried about losing data or experiencing costly downtime but don't have a large or experienced staff, you'll appreciate the automated features of the PowerVault DL2000 family.

THE DELL DIFFERENCE

SIMPLIFICATION IS IN OUR DNA

At Dell, we're committed to making IT easier. Our PowerVault DL2000 family offerings come with factory-installed software, can be set up easily within minutes, and are simple to maintain using familiar tools. You'll also benefit from the commonality between PowerVault and PowerEdge™ products. We built the PowerVault DL2000 solutions on the same chassis as a PowerEdge server, so they can be easily managed by anyone familiar with Dell products.

FASTER, EASIER BACKUPS AND RECOVERY

Data storage requirements are expanding, but budgets and backup windows are shrinking. The PowerVault DL2000 family offers advanced features, including automation and powerful management software from industry leaders, that cut the cost and complexity of speedy disk-based backup. Plus the integrated solution of hardware, software, and services is a cost-effective way to reduce total cost of ownership.

SAFER THAN “HOMEGROWN” BACKUP-TO-DISK – UP AND RUNNING UP TO 5X FASTER

Configuring homegrown backup-to-disk solutions can be difficult, time-consuming, and prone to errors. Dell's answer: PowerVault™ DL2000, the industry's only integrated solution for faster disk-based backups and recoveries. It eliminates the risk of untested “homegrown” solutions, and gets you up and running as much as 5x faster.

We designed the PowerVault DL2000 family to help small and mid-sized businesses easily protect their applications and files quickly and without complexity. The PowerVault DL2000 is the first of our TierDisk family of products designed to provide cost-optimized solutions for secondary storage environments for data protection and data management. It's backup simplified by Dell.

UP AND RUNNING IN MERE MINUTES

PowerVault DL2000 solutions come factory installed with Symantec® Backup Exec™ or CommVault® Simpana® software, plus an easy wizard-driven setup and management utility. Integrated automated dynamic disk provisioning configures and sets up the disks for immediate use.

Set it up, configure storage, add more disks — it only takes a few clicks. PowerVault DL2000 solutions are fully tested and validated, sure to work together, and you can deploy them fast.

We've timed it: you can deploy PowerVault DL2000 and start executing your first backup in under 30 minutes, 4.5x to 5x faster than improvising a “homegrown” backup-to-disk solution.

SIMPLER TO MANAGE

Both versions of the PowerVault DL2000 feature remote management capabilities and alerts that notify administrators of any critical issues with the systems.

Your data center administrators can use the PowerVault DL2000's integrated management console to set backup tasks and policies and do system monitoring and maintenance from their central location. This makes the PowerVault DL2000 the ideal backup solution for remote offices that don't have IT experts on site.

FASTER, MORE RELIABLE DISK-BASED BACKUP

Managing tapes is complex and high maintenance. Backups to tape often exceed their backup window, and tape-based backups fail due to media or handling issues. Disk-based backups and restores with the PowerVault DL2000 are faster than tape and far more reliable.

THE BEST OF BOTH WORLDS

Tape backup can be time consuming — it can take days to back up your ever-growing data sets. However, tape is ideal for offsite storage for disaster recovery. The PowerVault DL2000 family of solutions gives you the best of both worlds, because they're available with the Dell PowerVault TL2000, TL4000, or ML6000 tape library integrated into the full solution. You can take advantage of backup-to-disk for rapid recovery, then transfer to tape from the same management console for off-site disaster recovery.

BETTER THAN VTL

Virtual Tape Libraries (VTLs) are “point products” that can help fix backup and recovery bottlenecks in the short run. But they're separate “boxes” that create silos of information and add management complexity because they run on proprietary software. Virtual tapes have to be created, provisioned, and managed from a separate interface, and VTL products lack alerting and reporting within the backup solution. The PowerVault DL2000 is a native, disk-to-disk solution that eliminates the need for manual setup and management. It automatically and dynamically provisions a disk, invisibly to the user, and gives you proactive monitoring, alerts, and reporting. What's more, it's based on software you already know and use — not unfamiliar, proprietary software that boxes you in.



BETTER PROTECTION, FASTER RECOVERY

The PowerVault™ DL2000 family was designed to make it simpler to keep your data safe. In addition to providing basic disk-based protection to all your servers and your applications, they offer the following advanced features:

The PowerVault DL2000 - Powered by Symantec® Backup Exec™ offers these advanced features:

- **Granular Recovery Technology for Speedy Restores:** Patent-pending Granular Recovery Technology (GRT) for critical Microsoft® applications, including Exchange, SharePoint® (MOSS), and Active Directory, lets your administrator recover granular objects from a single-pass backup by simply browsing and selecting it. Recover specific items such as public folders and individual mailboxes — even individual e-mails, attachments, and calendar items — all without a time-consuming full restore.
- **Continuous Data Protection for Exchange:** Continuously protects Microsoft Exchange and file data by backing up changes to the disk in real time as they occur. Improves the overall level of data protection and reduces administrative complexity because it eliminates the need for full, incremental, or differential backups for Exchange data.
- **Protection for VMware™ Virtual Machines with Lower Cost and Complexity:** Managing backups on virtual machines can be difficult and expensive due to licensing requirements. The PowerVault DL2000 - Powered by Symantec Backup Exec incorporates award-winning

technology for virtual machine protection. The Agent for VMware Virtual Infrastructure includes protection for an unlimited number of guests on an individual ESX host. In addition, Backup Exec leverages several VMware technologies, including VMware Consolidated Backup (VCB), that make backing up and restoring virtual machines faster and easier.

- **Protection for Desktops and Laptops:** Backup Exec's Desktop and Laptop Option (DLO) lets users automatically protect multiple desktops and laptops via a network share. DLO lets users choose continuous, scheduled, or manual backups and provides an intuitive interface that lets users access their most up-to-date data whether they're in the office or on the road.

The PowerVault DL2000 - Powered by CommVault offers:

- **Data Deduplication:** The PowerVault DL2000 - Powered by CommVault has a built-in compression and deduplication capability that stores data only once, eliminating redundant blocks across consolidated backup sets. No longer are you limited to one or two full backup cycles on disk. Deduplication lets you keep weeks of complete recovery copies on a smaller disk footprint. You get optimal recovery performance while minimizing your storage investment and reducing your storage requirements by up to 95%** with deduplication.

**Data deduplication can reduce storage requirements by up to 20x compared to the same amount of tape, which in turn can reduce backup windows, increase restore times, and save money. Individual results will vary. See the CommVault data deduplication calculator at Dell.com/DL2000 to better estimate potential reductions based on various factors relevant to your storage environment.

- **Distributed Protection of Branch Offices:** When you pair two PowerVault DL2000 devices across geographically distributed sites, you can replicate your deduplicated backups efficiently. Managed from a central site, each remote PowerVault DL2000 delivers rapid recovery at the branch office where it's located and also lets you protect your data with a replica copy at your DR site that you can use for restores or tape creation.
- **Efficient Virtual Server Data Storage:** CommVault's Universal Virtual Server Agent automatically detects and protects unlimited virtual servers on an individual VMware ESX or Microsoft Hyper-V host. Use block differential technology to only move and store changed VMDK or VHD blocks during backup.
- **One-Step Individual Object Recovery:** Efforts to restore lost data can range in scope from a full system recovery to recovering an individual e-mail. The PowerVault DL2000 – Powered by CommVault® provides the fast and easy recovery of individual objects with single-step granular recovery.
- **Synthetic Full Backups:** Frequent full backups take a toll on server I/O and can slow down user applications. The PowerVault DL2000 – Powered by CommVault removes that performance burden by continually backing up smaller, incremental changes from production servers and merging them with unchanged data to create a synthetic full backup copy. Patented Smart Client technology reduces the incremental backup time by tracking all of the files that have changed.

- **File and E-mail Archival Agents:** File, E-mail, and SharePoint Archiver software removes infrequently accessed data from servers and archives it for unified backup and archive protection. Your end users and applications retain normal access to the archived items at all times. By archiving your server data, you can achieve smaller backups and faster recoveries.

LIFECYCLE STORAGE SOLUTION SUPPORT

Choosing the right backup solution is an important step in keeping your critical information safe. Storage Consulting and Deployment from Dell can help you implement, manage, and optimize storage infrastructure as well as backup and recovery in a cost-effective manner, helping to reduce the risk associated with ineffective data management and reduce complexity while improving information availability. Having the right support is also important. Dell ProSupport for IT provides businesses of all sizes with flexible, reliable, and easier support solutions.

The Dell ProSupport for IT service model was designed for IT professionals like you. It provides:

- 7x24 direct access to Dell Expert Centers
- Fast-track dispatch for Dell-certified technicians
- Escalation management through Dell's Global Command Centers

The globally consistent, customer-driven Dell ProSupport for IT portfolio includes proactive support options that align to how you use technology. These enhanced offerings can help you protect your investment, reduce risk, manage complexity, enhance productivity, and guard your sensitive data.

SIMPLY PUT

PowerVault DL2000 gets you set up fast and set up right. Dell has partnered with industry leaders to create the first and only fully integrated disk-based backup solution.

Feature	PowerVault™ DL2000 - Powered by Symantec® Backup Exec™	PowerVault DL2000 - Powered by CommVault
Designed for	Small - Medium Business and Enterprises	Small - Medium Business and Enterprises
Operating Systems Supported	Windows® and Linux	Windows, Linux, and Unix
Applications Supported	Exchange, SQL, SharePoint®, VMware™, Hyper-V™, and Oracle®	Exchange, Lotus, SQL, Sharepoint, Office Communications Server, VMware, Hyper-V, Groupwise, Oracle, MySQL and SAP
Disk Capacity Scaling	Up to 144TB of usable disk space	Up to 144TB of usable disk space
Features Differentiation		
Deduplication	Not Available	Deduplication - available with Advanced Deduplication Edition
Ease of Use	Wizard Driven Functionality	Wizard Driven Setup and Configuration
Bare Metal Recovery	Supported	Not Available
Centralized Management for Multiple Systems	Built-in with Comprehensive Management Edition	Built-in using CommServe server
Individual Object Recovery	Performed using Granular Restore Technology; no need to perform the database backup and individual object backup	Performed from CommCell Console; object level recovery from disk or tape
Support for Virtual Environments	Unlimited Guest OS supported with a single Virtual License; can perform individual object recovery with this license	Unlimited guest OS support for VMware ESX and Microsoft Hyper-V; Integrates with block deduplication for space savings
Remote Office Optimizations	Central Management, Network Bandwidth Throttling	Central Management, Network Bandwidth Throttling, Data Reduction using Deduplication
Desktop & Laptop Support	Fully supported	Fully Supported
Archival for Primary Storage	Not Available	Options for including File or E-mail Archive integrated with backup

SIMPLIFY STORAGE AT DELL.COM/DL2000

