Dell PowerVault DL Backup to Disk Appliance
Powered by CommVault

One of the industry's only integrated solution for faster disk-based backups and recoveries gets you up and running in less than 30 minutes faster.

Up and running in less than 30 minutes

Configuring homegrown backup-to-disk solutions can be difficult, time-consuming, prone to errors, and expensive. Dell has simplified the backup process by offering the industry's first and only integrated hardware, software, and services solution powered by CommVault® Simpana® software. This integrated solution is a cost-effective way to reduce total cost of ownership.

PowerVault™ DL Appliance — Powered by CommVault® comes factory-installed with CommVault Simpana software, plus a unique 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 DL Appliance solutions are fully tested and validated, sure to work together, and you can deploy them fast.

In fact, we've timed it: You can deploy PowerVault DL Appliance — Powered by CommVault and start executing your first backup in less than 30 minutes. That's faster than setting up and configuring the hardware and software pieces on your own.

Industry leaders Dell and CommVault co-developed this offering to get you up and running fast with a tested solution that offers easier management. It's an ideal way for any IT department to achieve fast, reliable backups and restores. It's disk-based backup simplified by Dell.

Disk-based backup is faster than backing up to tape, with faster restore capabilities*

Managing tapes can be complex and time consuming. Backups to tape often exceed their backup window, and tape-based backups can fail due to media or handling issues. Disk-based backup with the PowerVault DL Appliance — Powered by CommVault now offers multi-streaming backup to disk or tape. It is faster than tape and restores faster with greater reliability than tape. And CommVault's Simpana software reduces backup windows even more than traditional backup-to-disk software. It takes advantage of disk's random read/write capability and writes data faster, in "chunks" rather than as large, sequential files.

Built-in data deduplication: reduces storage by up to 15 times**

The PowerVault DL Appliance — Powered by CommVault has a built-in compression and deduplication capability that stores files only once, eliminating redundant files, attachments, and documents 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 15 times with deduplication.

Source side and target deduplicaiton

The PowerVault DL Appliance -Powered by CommVault has Backup, Archive and Replication modules that offer source and target based deduplication on a global basis. Starting at the client, the amount of redundant backup data stored on disk or tape can be eliminated. This reduces the amount of data traveling over your network, and reduces backup times, helping you meet stringent backup windows, because the deduplication occurs on the client side.

SnapProtect for Virtual Server Agent support

The PowerVault DL Appliance now supports CommVault's SnapProtect™ and Virtual Server Agent (VSA). The SnapProtect feature enables you to create a point-in-time snapshot of the VM, which can be used for various data protection operations. CommVault's universal Virtual Server Agent (VSA) protects unlimited virtual machines on a VMware or Hyper-V servers without placing agents on each virtual machine. Utilizing the SnapProtect technology makes your storage arrays easy to configure. And because your time is important to you, this tool automates the process by using hardware based snapshot technologies to create numerous recovery points. These recovery points offer a compliment to traditional backup by providing interim "points in time" between backups to recovery, in the event of corruption, data loss or physical catastrophe.

Integrated tape support

The PowerVault DL Appliance is available with the Dell PowerVault TL2000, TL4000, or ML6000 tape library integrated into the full solution. Take advantage of backup-to-disk for rapid recovery, then transfer to tape from the same management console for offsite disaster protection.

Remote management, monitoring and reporting

Your data center administrators can use the PowerVault DL Appliance's integrated management console to set backup tasks and policies and do system monitoring and maintenance from their central location. This makes the PowerVault DL Appliance the ideal backup solution for remote offices that don't have IT experts on-site. The PowerVault DL Appliance-Powered by CommVault provides you with greater visibility through new views and enhanced reporting for health checks, data protection, media management, capacity planning and SLA performance.

Global Deduplication benefits data centers and branch offices

Eliminating redundant data in backup images within a global network can reduce your storage consumption. Global Deduplication provides a framework across multiple data management storage policies, and clients by simplifying the management of deduplication policies. Using one or more storage policies, multiple remote offices can backup data and save a copy to a centralized data center. Deduplication benefits can be increased without losing the ability to tailor data protection and retention needs to your business requirements.

Continuous protection of data

The PowerVault DL Appliance with CommVault features Continuous Data Replicator (CDR) agents that are designed to deliver continuous protection for your servers with critical recovery objectives. You can use these CDR agents to provide secure, byte-level file, Exchange, SQL, or Oracle® data for consolidated backups from your production servers to a centralized PowerVault DL Appliance.

Single-step granular recovery

Efforts to restore lost data can range in scope from a full system recovery to recovering an individual e-mail. The PowerVault DL Appliance – Powered by CommVault provides the fast and easy recovery of individual objects with single-step, individual object recovery.

Accelerated synthetic full backups reduce performance impact on applications

Frequent full backups can take a toll on server I/O and can slow down user applications. The PowerVault DL Appliance — 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. By transferring data signatures , instead of actual data, to the target, you can minimize disk reads, and eliminates re-hydration and re-deduplicaiton. Smart Client technology reduces the incremental backup time by tracking all of the files that have changed.

File and e-mail archival agents reduce primary storage use

The PowerVault DL Appliance – Powered by CommVault's File, E-mail and SharePoint Archiver software moves infrequently accessed data from production servers and archives it. Your end users and applications retain normal access to the archived items at all times. By archiving your server data, you can reduce primary storage, thereby achieving 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.

PowerVault DL Backup to Disk Appliance — Powered by CommVault specifications

PowerVault DL Appliance — Powered by CommVault is available in both a Standard Edition and an Advanced Deduplication Edition. Each edition comes with five File System Agents. Additional optional agents are available.

- Standard Edition: Includes CommServe Master Server, MediaAgent, and 5-File System Agents
- Advanced Deduplication Edition: Includes CommServe Master Server, MediaAgent, 5-File System Agents, and Content Aware Block Level Deduplication

Additional available licenses:

- File System or Active Directory Agent: This agent protects the file system and system state for servers, or active Directory Agents.
- Application Agent: This delivers granular protection for Email or Database Solutions.
- Universal Virtual Machine Agent: This agent protects the file system and system state for Virtual Servers (VMware or Microsoft Virtual Server). Just one file system agent is needed for every physical server.
- Continuous Data Replication: This agent provides byte-level, asynchronous host replication (one agent needed per server replicating to the DL2200).
- File or Email Archive Agent: This agent removes infrequently accessed Windows, Linux or Netware files or Emails from Exchange to reduce primary storage space. Stubs are left behind that recall files/emails when needed.
- Email Compliance/NAS or Sharepoint Archive Agent: This agent removes infrequently accessed files from NAS or Sharepoint to reduce primary storage space. Stubs are left behind that recall files or documents when needed. Email Compliance Agent captures the exchange journaling data which helps in meeting regulatory compliance requirements of companies.

Features	Dell™ PowerVault™ DL2200
Value Series	1 X Intel® Xeon® E5620, 2.4Ghz, 12MB Cache
Performance Optimized	2 X Intel® Xeon® E5620, 2.4Ghz, 12MB Cache
Internal Storage	2 X 500GB^2 , Near Line SAS Drives in Hardware RAID 1 Configuration for the Operating System and Application 6 or 12 of 500GB^2 , or 1TB^2 or 2TB^2 , Near Line Drives in Hardware RAID 5 Configuration for the data
Optional Expansion with SAN	Support for MD3000i, CX Arrays or EqualLogic PS Series arrays
External Storage Connectivity	Available through 1 or 2 PERC 6/E
Tape Connectivity	6Gbps SAS HBA; Fiber Channel HBAs; Emulex or Qlogic HBAs
Networking	Dual-embedded Broadcom® NetXtreme IITM 5708 Gigabit6 Ethernet NIC with fail-over and load balancing
Operating System	Windows® Server 2008, R2 Standard; Factory Installed OS
Systems Management	iDRAC Express
Remote Management	DRAC
Physical Dimensions	2U rack-mountable chassis 26.17" (66.46 cm) D x 17.53" (44.52 cm) W x 3.42" (8.67 cm) H with bezel attached
Rack Weight	57.54 lbs. (26.1 kg), maximum configuration
Ports	Rear: 2 x USB 2.0, 1 x serial connector, 1 x video connector
Security	Optional TPM Module Optional Absolute Computrace software
PowerVault MD1200 External Storage Features included with the PowerVault Backup to Disk Appliance	
Hard Drives	1XH800 for connecting up to 8 MD1200 Enclosures (i.e. a total of 96 Drives). One additional H800 card available for purchase - to connect 8 additional MD1200 enclosures (for a total of 192 Drives)
Maximum Scalability	Up to 6 MD1200 shelves connected to one dual-ported PERC card; Up to a total of 12 MD1200 shelves using two PERC cards in a appliance
Maximum Usable Capacity	Up to 306 TB of usable space (408 TB of raw disks)
Maximum Backup Capacity	Up to 18TB of usable disk space

*Based on 2008 survey commissioned by CommVault, available at, dell.com/CommVault
**Data deduplication can reduce storage requirements by up to 15x 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/DL Appliance to estimate reductions based on various factors.)

Simplify your network at www.Dell.com/diskbackup

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