



HP StorageWorks D2D Backup Systems

Data sheet

Provide flexible disk-based backup with StoreOnce deduplication enabling network-efficient data replication for scalable, cost-effective data protection of distributed environments.

Struggling with complex, distributed, and costly data protection? You need a disk-based backup system that delivers leading price-performance, deduplicates backup data, and is compatible with your existing IT infrastructure.

The HP StorageWorks D2D Backup Systems with HP StoreOnce deduplication provide disk-based data protection for data centers and remote offices. Automate and consolidate the backup of multiple servers onto a single, rack-mountable device while improving reliability by reducing errors caused by

media handling. All HP D2D Backup Systems feature HP StoreOnce deduplication software for efficient, longer-term data retention on disk and enabling network efficient replication for a cost-effective way of transmitting data offsite for disaster recovery purposes. The D2D Backup Systems integrate seamlessly into your current IT environment and offer you the flexibility of both virtual tape library and NAS* targets.

Key features and benefits

HP StoreOnce deduplication, Store More Data on Disk

HP StoreOnce deduplication reduces the disk space required to store backup data sets by typically 20x[†] without impacting backup performance. Retaining more backup data on disk for longer, enables greater data accessibility for rapid restore of lost or corrupt files and reduces downtime.

*CIFS only on legacy systems

[†]Source: HP Dynamic Deduplication—achieving a 50:1 ratio white paper, <http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-0212ENW.pdf>



The D2D Backup Systems offer high performance multi-streaming with peak backup speeds of up to 2.4 TB/hour to a disk-based system instead of sequentially to a tape drive or tape autoloader, demonstrating that you can substantially reduce your backup window.

Data independent deduplication simplifies operations by reducing tuning and tweaking.

Rapid Restore of Data for Dependable, Worry-free Data Protection

The HP StorageWorks D2D Backup Systems offer immediate access to backups for rapid restores.

Proven Hardware RAID 5 and 6 technology reduces the risk of data loss due to failures.

More Affordable Disk-based Data Protection

With up to Twice[‡] the price-performance of comparable products with deduplication and replication, the HP D2D Backup Systems deliver more affordable data protection.

HP StoreOnce deduplication reduces network bandwidth needed for remote data replication. More cost-effective replication enables automated, centralized backup of remote sites and delivers a practical disaster-recovery solution for data centers. OST plug-in integrates with Symantec applications.

D2D Backup Systems offer scalability to 36 TB of usable capacity as your data storage requirements grow, with simple and cost effective capacity upgrades that allow you to increase storage capacity without purchasing additional systems.

D2D Backup Systems are rack-mountable backup appliances, supported by all leading backup applications. With choices of network interface, iSCSI or Fibre Channel and backup target, virtual tape library (VTL) and NAS* (CIFS/NFS), integrating into most IT environments.

Automate, simplify, and improve the backup process

HP StorageWorks D2D Backup Systems automate your backup processes allowing you to reduce the time spent managing your data protection. Implementing hands-free, unattended daily backup is especially valuable for environments with limited IT resources such as remote or branch offices.

HP Services

HP Technology Services—consultants and support experts to solve your most complex infrastructure problems. We help keep your business running, no matter what. Boost availability and avoid downtime, trust our expertise to enhance your HP solution.

Recommended Services

3-Year HP Support Plus 24 Service: For a higher return on your storage technology, our 3-year combined reactive support service delivers integrated onsite hardware/software support services available 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support, and software updates.

HP Installation and Startup Service for D2D Backup System: For efficient deployment and integration into your environment, this service provides the necessary activities required to deploy your D2D Backup System.

HP Backup and Recovery Solution Service: To help you to design an architecture that meets your requirements, this service deploys backup software, validates configuration, and integrates the backup software solution into your infrastructure.

Related Services

5-Year HP Support Plus 24: Our 5-year combined reactive support service provides competitive pricing, less administration, and a multi-year discount while delivering integrated onsite hardware/software support 24x7x365, including access to HP technical resources, 4-hour response onsite hardware support, and software updates.

Trust the Services professionals at HP; for more information, contact your HP sales representative or HP-authorized Channel Partner or, visit www.hp.com/hps

D2D Backup Systems can backup multiple servers via a standard Ethernet or Fibre Channel network simultaneously to a disk-based solution at peak speeds of up to 2.4 TB per hour instead of sequentially to a tape drive or autoloader, meaning that you can substantially reduce your backup window.

D2D Backup Systems have an intuitive web-based browser interface allowing you to monitor locally or remotely, to view results or change settings. This self-managing device reduces routine maintenance. Replication manager provides management of a number of devices replicated to a central site.

Choice of targets for backup applications—VTL, NAS* (CIFS/NFS) or both, providing users with flexibility in how they configure their backups. CIFS* only for legacy systems EJ001A, EJ002A, EH938A, EH939A, EH941A, EH942A, and EH999A.

D2D Backup Systems are self-managing backup appliances that require little, if any, routine maintenance. Unlike other disk-based storage devices, D2D Backup Systems do not require virus protection, defragmentation, or LUN provisioning.

*CIFS only for legacy systems.

‡Evaluator Group independently tested and verified the HP 20% performance advantage and 2X price-performance claim. This was based on performance comparison to competitive systems using FC VTL and CIFS interfaces conducted in May 2010 and standard published pricing as of Evaluator group study April 2010.

D2D2500 Backup Systems

D2D4100 Backup Systems

D2D4300 Backup Systems



Models	HP D2D2502i Backup System HP D2D2504i Backup System	HP D2D4106i Backup System HP D2D4106fc Backup System HP D2D4112 Backup System	HP D2D4312 Backup System
Form factor	1U	2U scalable rack	4U scalable rack
Capacity	1.5 TB Useable (D2D2502) 3 TB Useable (D2D2504)	9 TB Useable (D2D4106) 18 TB Useable (D2D4112)	36 TB Useable Maximum
Transfer rate	325 GB/hr (D2D2502) 450 GB/hr (D2D2504) Maximum	800 GB/hr (D2D4106) 1.3 TB/hr (D2D4112) Maximum	2.4 TB/hr Maximum
Number of virtual drives	8 Maximum	24 Maximum	50 Maximum
Number of virtual tape libraries	384 virtual	3,456 virtual	51,200 virtual
Tape devices emulated	LTO-2/LTO-3/LTO-4/LTO-5 tape drives in 1/8 G2 Autoloader, MSL2024, MSL4048 Tape Libraries, HP D2D Backup system generic library with HP D2D generic LTO tape drive	LTO-2/LTO-3/LTO-4/LTO-5 tape drives in 1/8 G2 Autoloader, MSL2024, MSL4048 Tape Libraries, HP D2D Backup system generic library with HP D2D generic LTO tape drive	LTO-2/LTO-3/LTO-4/LTO-5 tape drives in 1/8 G2 Autoloader, MSL2024, MSL4048 Tape Libraries, HP D2D Backup system generic library with HP D2D generic LTO tape drive
Deduplication	Powered by HP StoreOnce deduplication	Powered by HP StoreOnce deduplication	Powered by HP StoreOnce deduplication
Replication	Licensed by target available from www.hp.com/go/d2d . Optional HP Replication Manager Software download is also available. Optional OST download also available for Symantec backup applications	Licensed by target available from www.hp.com/go/d2d . Optional HP Replication Manager Software download is also available. Optional OST download also available for Symantec backup applications	Licensed by target available from www.hp.com/go/d2d . Optional HP Replication Manager Software download is also available. Optional OST download also available for Symantec backup applications
Targets for backup applications	NAS (NFS/CIFS) and VTL (iSCSI and FC)	NAS (NFS/CIFS) and VTL (iSCSI and FC)	NAS (NFS/CIFS) and VTL (iSCSI and FC)
Backup application support	For the latest information visit www.hp.com/go/connect	For the latest information visit www.hp.com/go/connect	For the latest information visit www.hp.com/go/connect
RAID Level	Hardware RAID 5	Hardware RAID 6	Hardware RAID 6
Interface	2x iSCSI Ethernet interfaces	2x iSCSI Ethernet and 2x 4 Gb FC interfaces	2x 10 Gb iSCSI Ethernet and 2x 8 Gb FC interfaces and 2x1 Gb iSCSI Ethernet
Storage Expansion options	N/A	HP D2D4106 Upgrade Kit HP D2D4112/4312 Upgrade Kit	HP D2D4112/4312 Upgrade Kit
Warranty (parts/labor/onsite)	1-year, next-day, parts exchange, limited warranty plus 9x5 telephone support for the duration of the warranty	1 year parts exchange, 1 year labor, 1 year on-site normal business hours next business day response, plus 9x5 telephone support for the duration of the warranty	1 year parts exchange, 1 year labor, 1 year on-site normal business hours next business day response, plus 9x5 telephone support for the duration of the warranty
Quickspecs URL	http://h18000.www1.hp.com/products/quickspecs/13218_div/13218_div.pdf		

Service and support

HP Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customization, integration, and deployment services along with your storage and server purchases. It provides predictable, trusted, and tested IT solutions tailored to your business needs. We allow you to customize hardware to your exact specifications in the factory—helping to speed up deployment and free up internal resources. www.hp.com/go/factoryexpress

Customer technical training

Consider education as an integral part of your strategy to get an excellent return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking,

archiving, and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to onsite training customized to your needs or online. www.hp.com/learn/storage

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage, and ultimately retire their HP solutions. For more information on these services, please contact your HP representative or visit www.hp.com/go/hpfinancialservices

To benefit from a disk-based backup system that delivers leading price-performance, deduplicates backup data, and is compatible with your existing IT infrastructure, visit www.hp.com/go/d2d

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