

EMC Disk Library 3D 1500 and 3D 3000



DL3D 1500



DL3D 3000

LAN backup-to-disk platforms with data de-duplication providing cost-effective storage, longer onsite retention, and lower replication costs

Fast, reliable, scalable backup and recovery at an affordable price

The EMC[®] Disk Library 3D 1500 and DL3D 3000 are new LAN backup-to-disk libraries with target-based data de-duplication. Based on the EMC CLARiiON[®] CX3-10 (DL3D 1500) and CX3-40 (DL3D 3000) platforms, these new models offer customers an affordable price point, policy-based de-duplication, five-nines storage availability, and IP or SAN (VTL) connectivity flexibility—offering an attractive tape replacement option for midsize business environments.

The DL3D platforms provide policy-based de-duplication to improve the cost of storage and replication capabilities of traditional backup. The DL3D platforms work with existing backup software and do not require operational changes. They use sub-file variable-length data de-duplication, providing greater granularity than single-instance store strategies that only identify and eliminate repeated instances of identical whole files. The DL3D systems are also configured with hardware-based compression. With a hardware compression card installed, unique data that has been through the de-duplication process can be reduced further. This enables the maximization of the storage capacity as well as increased overall backup performance. Replication of de-duplicated data using IP replication is also supported to enable offsite protection and recovery.

The DL3D 1500 starts at 4 TBs of usable capacity and scales up to 36 TB with a sustained backup ingest rate of 720 GB per hour, while the DL3D 3000 begins at 8 TBs and scales up to 148 TB of usable capacity with a sustained backup ingest rate of 1.44 TB per hour. Both systems use 1 TB SATA disks with RAID 6 protection and include Fibre Channel ports for SAN VTL connectivity.

Policy-based data de-duplication

All DL3D 1500 and 3000 data de-duplication is policy-based. Policy-based de-duplication provides the ability to customize the data de-duplication process. EMC's policy-based de-duplication and compression technology allows customers to choose from three settings:

- **On:** for immediate data de-duplication for maximum storage efficiency.
- **Schedule:** in the "on" mode, the ability to defer the de-duplication process during backup windows to optimize ingest performance.
- **Off:** for applications with data types that bring little or no de-duplication benefit.

The Big Picture

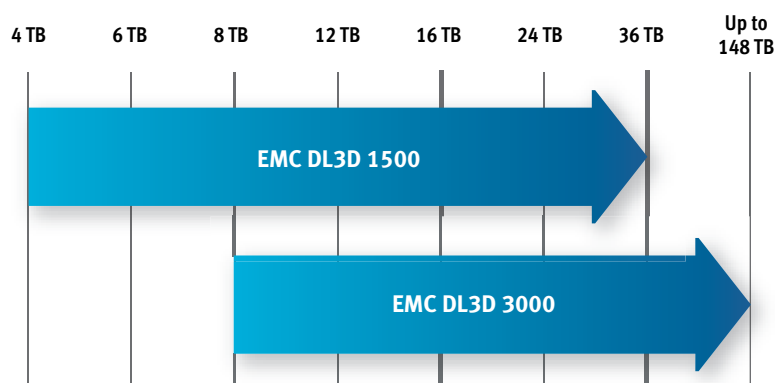
- LAN backup-to-disk with data de-duplication for midsize organizations
- Policy-based sub-file, variable-length de-duplication to eliminate redundant data while optimizing performance
- Provides five-nines storage availability, IP or SAN connectivity flexibility, and replication
- Highly scalable systems that start at 4 TB and can scale to 148 TB within a single system

Policy-based data de-duplication can be set by virtual tape library or NAS share. For example, for backup of Exchange, SQL Server, and Windows File Systems, each can have different settings from On, Off, and Schedule. This allows you to tailor a de-duplication solution to meet your data protection and business requirements. For example, large data sets with large backup windows could have “Scheduled” de-duplication to allow for fast ingest rates; data de-duplication then happens at off-peak hours. The benefits of policy-based de-duplication include:

- Optimal backup performance by application type
- Improved utilization of system resources
- Ability to customize the solution for a particular environment and make adjustments as the data changes

Highly scalable systems

The DL3D 1500 and DL3D 3000 are highly scalable systems. Both are economically designed with low starting capacity points of 4 TBs for the DL3D 1500 and 8 TBs for the DL3D 3000. Each use 1 TB SATA drives and the DL3D 3000 can scale to 148 TB within the same system for unmatched scalability in a LAN backup-to-disk platform.



Replication

The DL3D 1500 and DL3D 3000 support a ten-to-one replication topology. Each target platform can receive data from up to ten source platforms. Replication allows you the flexibility to eliminate tape shipments for an offsite data recovery capability. By replicating de-duplicated data, these platforms will save on bandwidth costs. In addition, the DL3D 1500 and DL3D 3000 conduct object-level checks with remote sites before replicating data. If similar data is recognized, that data will not be replicated, further saving network bandwidth costs.

Reliability

The DL3D 1500 and DL3D 3000 leverage the high availability and data protection designed into the proven EMC UltraScale™ architecture to address reliability. Several important reliability features include:

- UltraPoint™ storage features a high-availability design with no single points of failure.
- RAID 6 protection for enhanced disk-drive resiliency and reliability
- Ongoing verification and fault detection
- Dial-home capability
- Five-nines reliability
- Ethernet port failover



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Take the next step

To learn how EMC Disk Library 3D 1500 and 3D 3000 can make your backup and recovery process more efficient and cost-effective, contact your local EMC sales representative or authorized value-added reseller, call us at 866-464-7381, or visit our website at www.EMC.com.