

EMC Disk Library 1500 and 3000



DL1500



DL3000

LAN backup-to-disk platforms with data deduplication 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 1500 and 3000 are LAN backup-to-disk libraries with target-based data deduplication. Based on the EMC CLARiiON[®], the DL1500 and DL3000 platforms offer customers an affordable price point, policy-based deduplication, five-nines storage availability, and IP or SAN (VTL) connectivity flexibility—offering an attractive tape replacement option for midsize business environments.

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

The DL1500 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 DL3000 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 deduplication

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

- **Immediate:** data deduplication upon ingest for maximum storage efficiency.
- **Scheduled:** defer the deduplication process during backup windows to optimize ingest performance.
- **Off:** leverage for applications with data types that bring little or no deduplication benefit.

Policy-based data deduplication 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—Immediate, Scheduled, or Off. This allows you to tailor a deduplication solution to meet your data protection and business requirements. For example, large data sets with large backup windows could have “Scheduled” deduplication to allow for fast ingest rates; data deduplication then happens at off-peak hours. The benefits of policy-based deduplication include:

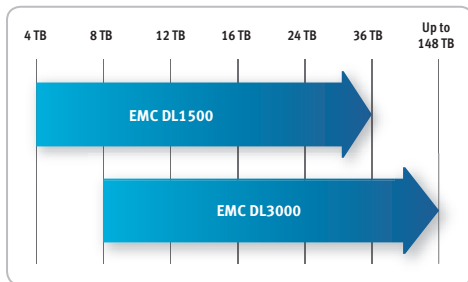
- Optimal backup performance by application type
- Improved utilization of system resources
- Ability to customize the solution for a particular environment and make adjustments as the data changes

The Big Picture

- LAN backup-to-disk with data deduplication 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
- Advanced system monitoring and reporting with EMC Data Protection Advisor

Highly scalable systems

The Disk Library 1500 and 3000 are highly scalable systems. Both are economically designed with low starting capacity points of 4 TB for the DL1500 and 8 TB for the DL3000. Each use 1 TB SATA drives and scales to 148 TB within the same system for unmatched scalability in a LAN backup-to-disk platform.



Replication

The Disk Library 1500 and 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 deduplicated data, these platforms will save on bandwidth costs. Replication can occur at the system level (virtual tape library or NAS partition) or at the individual file or tape cartridge level. In addition, the Disk Library 1500 and 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 Disk Library 1500 and 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

Management

The DL1500 and DL3000 provide advanced management capabilities that simplify operations and increase visibility, driving improved operational efficiency. Management capabilities include:

- Intuitive web interface with command line interface
- Fast installation
- Ability to set deduplication policy at NAS Share or VTL level

Each system also includes advanced system monitoring and reporting with EMC Data Protection Advisor, the industry-leading data protection management solution, providing:

- Simple-to-use, centralized monitoring and reporting for unlimited Disk Libraries
- Disk Library data collected into a single database for historical trending, capacity planning, and deduplication ratios comparisons
- Monitors Disk Library capacity, CPU utilization, port performance, and more
- Monitor and measure impact of policy or configuration changes

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Take the next step

To learn how EMC Disk Library 1500 and 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.