

EMC DISK LIBRARY FOR MAINFRAME

Integrated solution for all tape use cases



ESSENTIALS

Workload Flexibility

- Satisfies all tape workloads including batch and backup
- Works seamlessly with mainframe applications

Storage Flexibility

- Support for primary and deduplication storage
- Enterprise to small data center storage options

Performance and Scalability

- Process batch, backup, and restores faster
- Access tape data at disk speeds
- Reduce CPU utilization
- Scale performance and storage as needed

MAINFRAME TAPE REPLACEMENT

A major challenge in the area of mainframe batch processing, DFHSM and backup is the growth of information throughout the enterprise. While tape has always provided inexpensive storage, it does present a number of challenges. Today's data centers face demand for better service-level agreements (SLAs), shorter backup and restore operations, and less complex and less costly tape management processes. Eliminating the risk of missing information due to lost or damaged tapes is a must.

The EMC[®] Disk Library for mainframe is available in multiple configurations to meet different requirements. The Disk Library for mainframe addresses the challenges of the enterprise data center and delivers industry-leading performance and availability to mainframe tape operations.

Disk Library for mainframe combines RAID 6 protected disk storage, hot-standby disks, tape emulation, deduplication, and hardware compression. All are essential capabilities to provide your enterprise with a high-capacity and performance-oriented mainframe storage solution in the smallest possible footprint.

MANAGE ALL MAINFRAME TAPE USE CASES

In addition to traditional backup and recovery, mainframe tape is used for production batch applications, fixed-content archival, and DFHSM migration that extends online storage for a variety of data types including information, billing records, and call center data. In many cases, competing vendors require multiple tape subsystems to meet all tape processing needs. Disk Library for mainframe supports all of the common mainframe tape use case workloads in a single platform.

Disk Library for mainframe connects directly to the mainframe host via FICON channels and it appears to the mainframe operating system as 3480/3490/3590 tape drives. All tape commands are supported by the Disk Library for mainframe and it responds as physical tape drives. This means existing work processes, tape management systems, and applications can run without any modifications.

PERFORMANCE, SCALABILITY, FLEXIBILITY

Volumes of data continue to increase while batch windows are shrinking and backup windows and recovery time objectives continue to decrease. Disk Library for mainframe provides a significant advantage over tape by eliminating physical tape mounts, robotic movements, tape rewinds, and drive contention. Batch and backup operations that took hours can now finish in minutes.

The Disk Library for mainframe stores each volser as an individual file on spinning disk and only uses as much space as required, eliminating the need for tape stacking. As a result, when the tape management system issues a mount request, it is typically satisfied within seconds. This feature is ideal for recall operations such as accessing fixed-content data or DFHSM recalls. With Disk Library for mainframe, the

DATA SHEET

retrieval time of information is reduced from minutes via tape to just seconds via disk.

Disk Library for mainframe can help reduce CPU utilization by redirecting DFHSM workloads from tier-1 storage. By leveraging its disk-based performance and compression, you can migrate L0 data sets directly to ML2 and avoid ML1 processing, without compromising recall time.

The modular architecture of the Disk Library for mainframe allows FICON channels and storage capacity to be added non-disruptively as processing requirements change. FICON channels can be added up to the maximum supported in each system. Storage can be added in increments up to the maximum of 5.7 PB of logical storage.

Disk Library for mainframe enables you to share tape drives between 64 active LPARs and SYSPLEX systems without the need for additional tape-sharing software on the mainframe, reducing CPU utilization and avoiding maintenance costs.

THE RIGHT SOLUTION FOR YOUR REQUIREMENTS

The Disk Library for mainframe comes in different models and configurations that can be tailored to the specific needs of your environment.

DLm8000 - Highest Availability for Critical Tape Operations

The DLm8000 supports SRDF/S and Consistency Groups with VMAX storage to insure Universal Data Consistency between DASD and tape data at identical points in time in production and recovery sites. By having this consistency, customers can benefit from the fastest possible recovery with highly available and predictable results. The DLm8000 also supports for SRDF/A using Multisession Consistency (MSC) for an out-of-region data center supporting a three-site STAR configuration. EMC's Geographically Dispersed Disaster Restart (GDDR) product automates disaster restart of applications and systems in mainframe environments in the event of a planned or an unplanned outage.

DLm6000 - Enterprise Scalability, Flexibility

The DLm6000 offers concurrent support for both primary and deduplication storage within the same platform. Tape data can be directed to the appropriate storage based on its intended use. For example, backup operations can be directed to deduplication storage where the data footprint will be minimized, significantly reducing storage and replication costs. Unique data types, such as DFHSM migration, can be directed to primary storage and will be available for near-instantaneous recalls.

DLm2000 - Enterprise Performance for Smaller Environments

The DLm2000 is designed for users who have less need for massive scalability, or who do not require deduplication storage. The DLm2000 provides up to 143 TBs of usable VNX storage and can be ordered with dual VTEs to provide high availability and failover.

DLm1000 - Flexibility for Mixed Environments

The DLm1000 is a gateway product leveraging various Data Domain storage systems for mixed mainframe and open systems environments. It is targeted towards backup, recovery and archiving for midsize data centers.

MULTISITE DISASTER RECOVERY

The Disk Library for mainframe can replicate from one source site to one or two remote sites. Users have the option to replicate part or all of their tape data and choose which data (tapes) receive priority. Depending on the DLm model and configuration, replication can be either synchronous or asynchronous to meet varying customer replication requirements.

Disk Library for mainframe users can perform end-to-end disaster recovery (DR) testing without stopping replication and compromising DR readiness. Disk Library for mainframe can make snapshots or clones of backup data from which DR testing can be performed. Once completed, the copied data can simply be deleted and normal processing continued.

WORLD-CLASS SUPPORT AND SERVICES

EMC maintains a strong and highly visible commitment to protecting your information infrastructure through the 24x7 availability of remote technical support resources and automated secure remote support solutions. The EMC Secure Remote Support (ESRS) gateway provides a secure, IP-based, distributed remote service support solution giving you command, control, and visibility of remote support access.

ConnectEMC simplifies and standardizes the way you can set “call home” or have the Disk Library for mainframe send an email alert to the tape administrator. It is also a method EMC systems use to transport event files—error, informational, configuration, and others—from a service workstation to EMC back-office support systems.

SNMP monitoring allows administrators to easily integrate the Disk Library for mainframe with existing SNMP monitoring tools.

EMC Global Services provides expert planning, implementation, and management services to ensure that your EMC Disk Library for mainframe performs optimally in your environment and exceeds your business objectives. These services include the EMC Design and Implementation Service, which provides expert installation and integration to ensure the success of your implementation and accelerate the business impact of your investment.

CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, contact your local representative or authorized reseller—or visit us at www.EMC.com.

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