

EMC CLARiiON Disk Library



Faster backup and restore, improved service levels, compatible with existing backup infrastructure

The Big Picture

- Enables disk-based backup and restore without changing current operations or backup infrastructure
 - Emulates leading open systems tape libraries, tape drives, and tape media for simple deployment and implementation
 - Delivers 30 to 60 percent faster backups and up to 90 percent faster recoveries than traditional tape-based solutions
 - Offers single-stream performance up to 90 MB/s and aggregate sustained performance of 1,200 MB/s
 - Provides flexible configuration options with support of up to 128 tape libraries, 1,024 tape drives, and 8,192 cartridges within a single Disk Library system
 - Leverages CLARiiON's high availability design with RAID protection of data
 - Offers optional final write out to tape in native tape format for offsite long-term storage
 - Scalable configurations for large onsite backup capacities: DL310, DL710, DL720, and DL740 (up to 348 TB)
 - Leverages ATA disk technology and offers optional 3:1 data compression for a lower cost-per-gigabyte, price-competitive solution
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The CLARiiON DL310 mid-tier solution scales from 3.8 TB up to 37.5 TB. For larger capacity requirements the DL710 and DL720 scale up to 174 TB, while the top-of-the-line DL740 accommodates up to 348 TB in a single system.

Simply a better backup and restore solution

IT organizations face more stringent requirements for service levels and response times. Traditional tape-based solutions are no longer adequate for fast growing backup and restore environments and their new requirements. Changing existing processes and applications is complex and can be expensive.

EMC offers four models of the CLARiiON® Disk Library to meet these challenges. The CLARiiON DL310, DL710, DL720, and DL740 leverage CLARiiON's performance and availability while emulating leading tape solutions to deliver a simple-to-deploy and easy-to-use disk-based backup and recovery solution.

No changes: easy implementation and deployment

The EMC® CLARiiON Disk Library's tape emulation functionality allows the disk-based solution to appear as existing tape libraries and tape drives to the backup application. No retraining of operators or expensive software changes and upgrades are required. A simple GUI, combined with wizards, helps the user configure the libraries and drives to be emulated. These emulated libraries, drives, and cartridges can be allocated or deleted dynamically.

Performance: faster backup and restore

Volumes of data continue to grow while backup windows and restore time objectives remain flat or decrease. The CLARiiON Disk Library can sustain performance of up to 1,200 MB/s for a high-performance streaming bandwidth solution. The CLARiiON Disk Library can achieve single backup stream performance of up to 90 MB/s and uses proven CLARiiON array technology to achieve superior performance in receiving, restoring, and moving data. Compared with tape, disk's random access nature delivers an orders-of-magnitude benefit in restore and recovery times. Restore operations that once took hours or even days, now take only minutes or seconds.

CLARiiON DL720 and DL740 models offer a dual-engine configuration with active failover capabilities—delivering maximum performance and reliability for the most demanding environments.

Availability: high availability comes to secondary storage environments

IT departments are faced with a number of availability challenges when dealing with tape drives and tape media. The CLARiiON Disk Library leverages the high availability and data protection designed into the EMC CLARiiON architecture to address these issues. The CLARiiON Disk Library provides several important improvements:

- EMC CLARiiON storage features a high availability design with no single points of failure.
- RAID protection ensures that a disk failure does not cause data availability issues.
- Dual-engine active-failover capabilities ensure an increased level of availability for mission-critical environments.

Native tape writes and offsite archival process

The CLARiiON Disk Library can automatically write out data to a tape in native tape format for offsite storage. IT staff set policies for these final writes to tape and the CLARiiON Disk Library automatically executes these operations.

Efficient storage utilization for a lower cost solution and minimal user intervention

The CLARiiON Disk Library dynamically allocates storage for backup data as required. Unlike other offerings where storage space is pre-allocated, the need for active management is minimal because the CLARiiON Disk Library intelligently manages the backup capacity requirements. This “on-the-fly” allocation also maximizes the utilization of media, increasing the return on investment (ROI) of the Disk Library.

The CLARiiON Disk Library leverages ATA disk economics, providing a cost-effective storage solution. Offering data compression of up to 3:1 reduces the cost per gigabyte even further, enabling more data to be stored using less physical disk space.

Tape Emulation Supported Applications, Tape Libraries, and Drives

Backup Application Support:	EMC EDM™, EMC Legato®, Veritas, IBM, Computer Associates, HP, Commvault, Syncsort, BakBone, Atempo
Physical Tape Library Support:	ADIC, ATL, STK, IBM, Sony
Physical Tape Drive Support:	DLT7, DLT8, SDLT 220, SDLT 320, LTO, LTO2, STK 9840, STK 9940, STK ACSLS, IBM 3590, IBM 3584, AIT2, AIT3, SAIT

For further configuration and compatibility details, please review the EMC Support Matrix at www.emc.com.

Maximize CLARiiON Disk Library benefits with EMC Services

EMC Services provides expert plan, build, and management services to ensure that your CLARiiON Disk Library performs optimally in your environment and meets your business objectives. Leveraging EMC’s best practices, these services include the Backup-to-Disk Design and Implementation Service, which provides expert installation and integration of the CLARiiON Disk Library into your backup environment to ensure the success of your implementation and accelerate the business impact of your investment.

EMC Customer Service—four-time winner of the SSPA STAR Award for outstanding mission-critical support—helps you keep your information available 24/7 to deliver competitive advantage and drive revenue. The CLARiiON Disk Library includes CLARAlert® remote support, which detects hardware or software storage problems as they occur and proactively notifies the EMC Customer Support Center.

Ask your EMC sales representative about the full spectrum of services from EMC that can benefit your organization, including strategic consulting services and point and custom solutions—from consolidation of your current resources to a transformation of your environment—to achieve information lifecycle management.

Take the Next Step

For more information on the EMC CLARiiON Disk Library, contact your EMC sales representative or authorized EMC value-added systems integrator. Or visit our website at www.EMC.com.



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