

BROCADE DATA MIGRATION MANAGER



STORAGE AREA NETWORK

High-Speed, Non-Disruptive Data Migration for Heterogeneous SAN Environments

HIGHLIGHTS

- Simplifies and accelerates block data migration during data center relocation or consolidation, array replacements, or ILM activities
- Migrates up to 128 LUNs in parallel at up to 5 *terabytes* per hour
- Performs online (as well as offline) migration without impacting applications, eliminating costly downtime
- Moves data between heterogeneous storage arrays from EMC, Hitachi, HP, IBM, Network Appliance, SUN, and other leading vendors
- Enables fast, seamless deployment in existing SAN fabrics through a “migrate-and-remove” architecture
- Automates multiple migration operations with easy start, stop, resume, and throttle control
- Utilizes an intuitive Windows management console or CLI scripting

In today’s dynamic enterprises, migrating block-level data has become a common occurrence, especially when IT organizations consolidate storage, purchase or lease new storage arrays, or perform technology refreshes. They must migrate data from one array to another and often from one vendor array to another. Even if an older array will remain in production, organizations often choose to move critical, frequently accessed data to newer high-performance arrays.

Although data migration is common, it still carries an element of risk and often requires extensive planning. If organizations do not account for business needs or perform data migration correctly, it can be highly disruptive, cause corruption, and lead to sizable downtime costs. Moreover, the need to keep storage and applications online reduces migration windows, resulting in longer migration projects and growing resource commitments.

In addition, many organizations are implementing tiered storage architectures to achieve Information Lifecycle Management (ILM), moving less frequently accessed data

to less-expensive storage arrays. If, however, the tiered arrays are from different vendors or have different functions, data migration can be overly complex and manually intensive. Traditional host- or array-based migration tools can also be expensive, difficult to use, and limited in their ability to move data between storage types and vendors. Thus, the overhead and potential business disruption can greatly undermine the benefits of an ILM strategy.

A SIMPLE-TO-IMPLEMENT, EASY-TO-MANAGE SOLUTION

To help organizations overcome these data migration challenges, Brocade® Data Migration Manager (DMM) provides a fast, non-disruptive, and easy-to-manage data migration solution for heterogeneous environments. Residing on the Brocade Application Platform, Brocade DMM features a migrate-and-remove architecture—it does not “own” the Logical Unit Numbers (LUNs)—and a “wire-once” setup that enables fast, simplified deployment in existing Storage Area Networks (SANs).

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Using Brocade DMM, IT organizations can implement and manage data migration across SANs or WANs with minimal time and resource investment. After a migration project is complete, they can simply remove Brocade DMM from the SAN environment.

An intuitive Windows-based management console provides easy-to-use wizards, advanced automation functions (such as array, host, and LUN discovery, as well as automated zoning), and keeps administrators informed about the state of migration and estimated completion time. For scripting and additional control, administrators can use a command line interface.

HIGH-SPEED, NON-DISRUPTIVE MIGRATION

Powerful, yet easy to use, Brocade DMM enables organizations to meet the challenge of ever-growing amounts of data and the high cost of application downtime. Utilizing the 4 Gbit/sec port speed and 1 million IOPS performance of the Brocade Application Platform, Brocade DMM migrates up to 128 volumes in parallel at up to 5 terabytes per hour.

In addition to offline migration, Brocade DMM performs worry-free online data migration. Applications and storage remain available without interruption, and the entire migration process is transparent to users. This capability especially helps organizations maintain application Service Level Agreements (SLAs) and minimize business disruption.

For online migration, two Brocade DMM platforms are connected into the SAN and operate in an “active-active” state—both platforms fulfill application I/O demands and provide failover to maintain high application performance and availability. To eliminate the risk of corruption, Brocade DMM works with industry-standard multipath software to properly direct all I/O traffic during the migration process.

DESIGNED FOR HETEROGENEOUS SAN ENVIRONMENTS

Brocade DMM enables IT organizations to migrate data volumes independent of operating system, application, or storage array. They simply select “source” array LUNs and “target” array LUNs in the Brocade SAN fabric and Brocade DMM does the rest automatically. It supports Windows, HP-UX, Solaris, and AIX data migration between storage arrays from EMC, HP, Hitachi, IBM, Network Appliance, SUN, and other vendors.

LOWER COST AND COMPLEXITY

Compared to host- or array-based migration offerings, Brocade DMM has lower initial cost and requires less administrative planning, hands-on operation, and migration execution time. Organizations can avoid host-specific applications that consume server resources or expensive storage-specific tools with limited functionality. Brocade DMM’s fast data migration over SANs and WANs can also accelerate business continuance initiatives. And broad heterogeneous support further enables organizations to implement cost-efficient tiered storage strategies.

MAXIMIZING INVESTMENTS

Brocade and its partners offer complete solutions to meet a wide range of technology and business requirements. These solutions include education and training, support, and services to help optimize technology investments. For more information, contact an authorized Brocade sales partner or visit www.brocade.com.

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