

Mirrored Archive Storage Virtualization Create a Secure Disaster Prevention Archive

QStar Data Director software expands the archive disaster prevention capabilities of Archive Manager, QStar's flagship archiving software, by providing block-based synchronous mirroring technology.

QStar's Data Director software gives customers the choice of either synchronously writing data to two media sets, in one library, writing to two drives in that library, or writing data to two libraries, depending upon their individual archive disaster prevention needs and budgets.

Options available:

DATA DIRECTOR 1 (DDR1)	Single library mirroring two media sets (requires 2 drives)
DATA DIRECTOR 2 (DDR2)	Two libraries connected to a single server mirroring two media sets
DATA DIRECTOR 3 (DDR3)	Two libraries (one connected remotely via WAN) mirroring two media sets
DATA DIRECTOR 3 WITH SDJ/STJ	One simulated library on Disk and one media library (connected remotely via WAN) mirroring two media sets

HIGHLIGHTS

- Software manages archive and media, drive and library mirroring
 - » Ensures increased archive data availability and reliability
 - » Hot standby mirrored volumes and failover
 - » Automatic resynchronization recovery
 - » Eliminates the risk of data loss associated with a media failure
- Delivers cost effective archive disaster prevention
- Access to ALL archived data via SMB /NFS file shares or S3 Cloud API
- Supports vendor neutral archive design
- Retention management to meet internal governance and compliance
- Scalable to multiple petabytes
- Software can be installed on your choice of server using Windows or Linux

OPTIONAL

- Performance option by created a simulated library on RAID
- Encryption and digital signature
- Policy-based tiered storage and data management with QStar Network Migrator

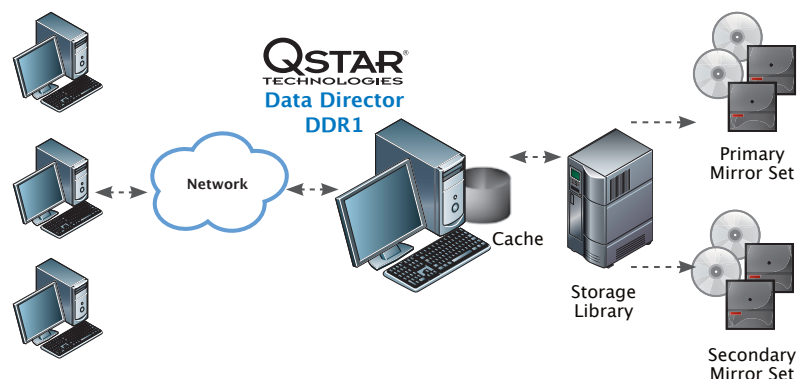
ELIMINATE THE RISK OF DATA LOSS ASSOCIATED WITH A MEDIA FAILURE

Mirror writing eliminates the risk of data loss associated with a media failure. Tape and optical media is manufactured to very high standards but a media failure is still a possibility. If this were to happen, data could be lost. Typically, most administrators would create a second copy of data on another piece of media and remove it from the library, providing a disaster recovery copy. Data Director provides a better solution. The software creates two synchronous identical mirrored copies, eliminating any issues associated with bad media.

With Data Director 1, once both the primary and secondary media copies are full, the second can be removed and transported to an offsite location. In this way only a single copy is retained in the library, optimizing storage capacity.

DDR1 - Single library mirroring 2 media sets (requires 2 drives)

Secondary mirror set can be removed and kept off-line



INCREASED PRODUCTIVITY AND DATA AVAILABILITY

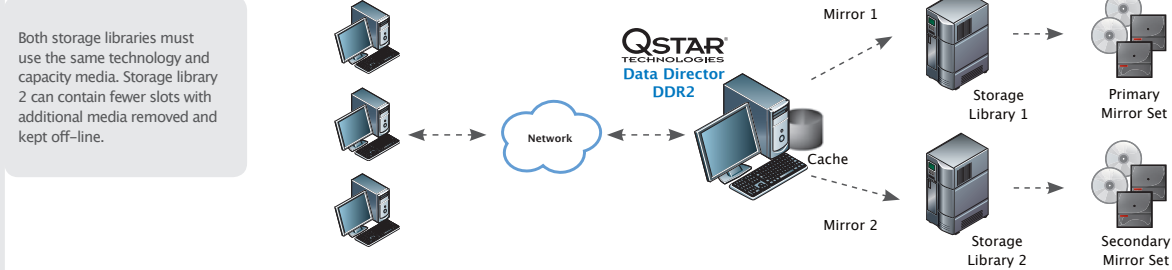
Using Data Director 2, a key advantage of library mirroring is increased productivity and data availability through reduced archive down time. DDR2 ensures against library failures, while DDR3 ensures against site failures by mirroring across multiple geographic locations (see diagrams page 2).

If the QStar software senses that a library or simulated library becomes unavailable, it will continue to service read and write requests to and from the remaining library. Once the failed device comes back on-line, Data Director will automatically re-synchronize data in both locations.

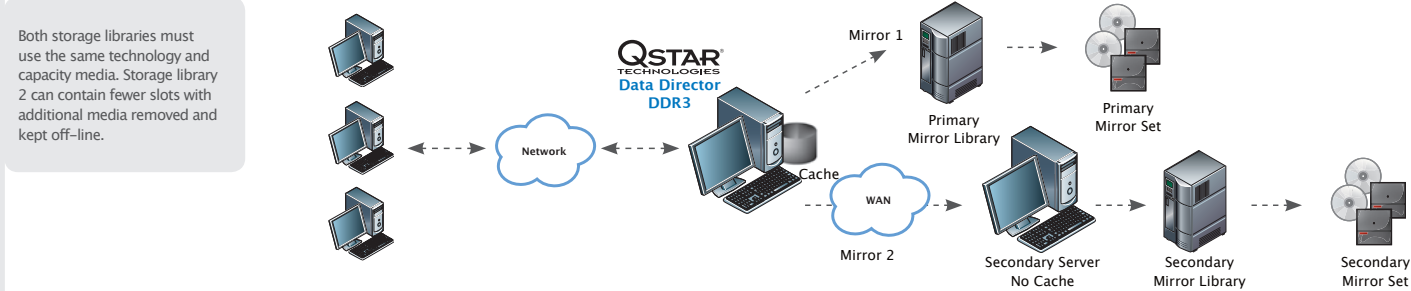
Data Director's archive disaster prevention capabilities facilitate a resilient archive strategy by providing very cost effective and dependable business continuity.

Data Director

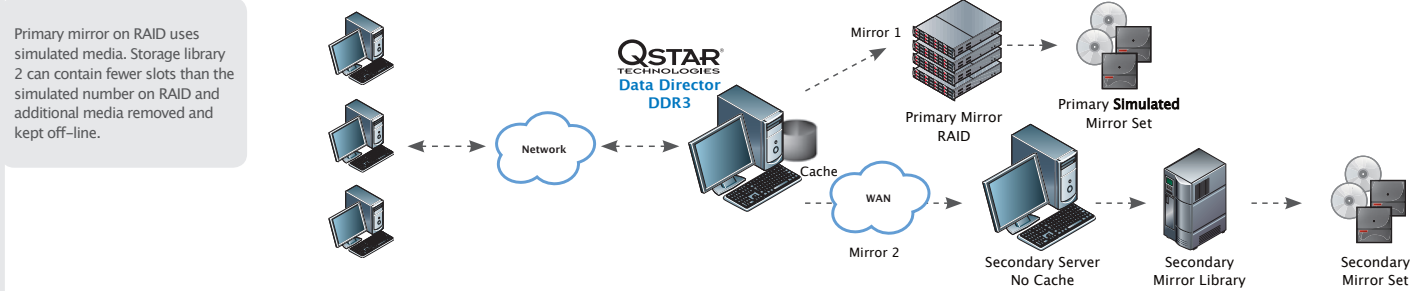
DDR2 - 2 libraries mirroring 2 media sets



DDR3 - 2 servers and 2 libraries mirroring 2 media sets



DDR3 with SDJ/STJ - 2 servers, 1 library and 1 simulated library using RAID



FLEXIBLE, SCALABLE SOFTWARE SOLUTION

QStar Data Director software can be installed on your choice of server supporting Windows or Linux. It will create an 'Active Archive' by virtualizing one or more archive technologies, presenting the archive as a network share, mount point or cloud bucket, by using SMB or NFS standard network protocols or S3 APIs. Users and applications can easily search, find, and retrieve data directly from the archive, without the need for administrator intervention. The software is managed through an easy-to-use interface, allowing administrators to control the archive from anywhere, at any time. It is easily scalable from terabytes to petabytes.

Since 1987, QStar Technologies, Inc. has been a leading provider of enterprise-class data management and archiving software solutions. QStar archive software is certified for a wide range of applications and is deployed across many industries worldwide.

PLATFORM COMPATIBILITY	Windows or Linux	HARDWARE SUPPORT	Tape, Optical, RDX, Disk
NETWORK PROTOCOLS	SMB, NFS, S3, HTTP, FTP	SOFTWARE SUPPORT	Integrates transparently with other applications or data movers
FILE SYSTEMS	TDO	CUSTOMER SUPPORT SERVICES	Full range of maintenance programs, customer support services and training available worldwide.
SERVER PLATFORM	64 bit server platforms		More detailed information about system requirements, supported hardware and technology partners is available on www.qstar.com

For more information, please contact the archiving experts at QStar:



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