

# QStar HSM

CAS | UDO | BLU-RAY | DVD-RAM | TAPE

## Hierarchical Storage Management

QStar provides an innovative approach to solving today's business requirements for archive. Twenty years since the inception of QStar, the company continues to evolve, offering solutions that transform the way data is accessed and stored. With thousands of installations around the world and supporting a wide range of archival media and platforms, the choice of a hierarchical storage management solution is clear. QStar's HSM provides the security and accessibility you need for your data on your platform of choice.

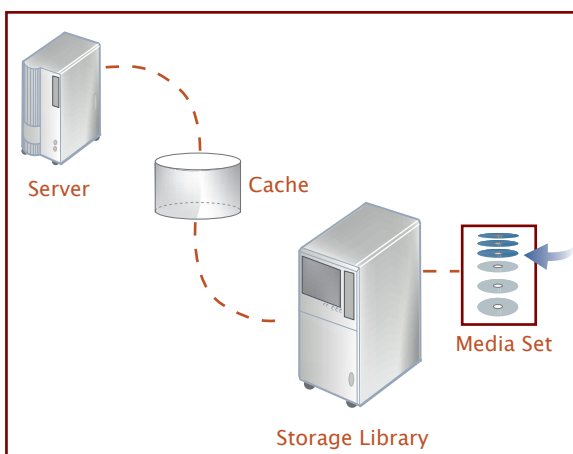
HSM-Lite provides a core level of functionality as a means to store and manage the bulk of the enterprise's data on less costly media, and then copy data to faster disk drives when needed. With HSM-Lite, QStar provides additional features as the customer need it.

### ONLINE BACKUP AND RESTORE

With a complete self-describing file system written to the secure archival media and data migrated continuously and incrementally, the risk of data loss and the need for daily backups are removed. With QStar's online restore, previous versions of archived data may also be recovered.

### MEDIA TRANSPORTABILITY

With either QStar's Standard Data Format (SDF) or Universal Disk Format (UDF), the logical volumes created may be physically transported between different UNIX platforms and even across to Windows platforms.



### GREEN STORAGE MANAGEMENT

QStar identifies the need for effective archive management to be a combination of technology which is blended in to a single integrated solution. HSM takes advantage of low-power, removable media and blends it with fast access disk for a integrated archive solution that provides users enhanced performance, better power utilization and prolonged data integrity.

### SINGLE VOLUME VIEW

Multiple pieces of archival media may be combined to create single or multiple logical volumes that can span both the media and library or jukebox boundaries. With the appearance of a standard magnetic disk, access to the data stored in the volume is entirely transparent to users and their applications.

### AUTOMATED DATA MIGRATION

With automatic data migration users can be sure the data is being stored securely at all times and is available when it is needed. QStar's HSM utilizes both high speed magnetic disk and secure archival media to provide the optimal combination of performance and security in an enterprise solution that works.

### TRANSACTION LOGGING CACHE

The cache implements full "transaction logging technology" for improved reliability and speedy recovery in the event of a system failure. Combined with QStar's improved directory archive management, data access downtime is significantly reduced.

### SCHEDULED ARCHIVING

Archiving may be scheduled to take place hourly, daily, weekly or monthly and at any particular point in time to suit the business operations, thus providing the ability to tune the system to achieve maximum productivity. A high water mark overrides the schedule to ensure the cache never becomes too full with un-archived data.

## ADVANCED FEATURES

### DISC COPY

QStar's Copy Disk utility makes an exact duplicate of media in a set allowing for safe storage of data at an offsite location. This utility can be set to run automatically on a per set basis or manually per disk. Disc Copy can be scheduled to run at specific times of the day, such as non-peak production hours, to minimize user lag times.

### DATA COMPACTION


The Data Compaction utility reclaims blocks after modifying or deleting files, making full use of the storage media. Data Compaction can be scheduled to run at specific times of the day within the QStar Intelligent scheduler.

### OFF-LINE VOLUME TRACKING


By providing a mechanism to track media outside of the storage library, logical volumes may grow beyond the available on-line capacity. With the entire file system directory structure cached for easy data selection, prompts are made and email notification can be sent for the retrieval of off-line media.

HSM Functionality	HSM Lite Functionality	Add on Functionality	Full HSM License
Single Volume View	✓		✓
Automated Data Migration	✓		✓
Transaction Logging Cache	✓		✓
Scheduled Archiving	✓		✓
Near CDP Functionality	✓		✓
Media Transportability	✓		✓
Disk/Tape Copy		✓	✓
Data Compaction		✓	✓
Off Line Media Management		✓	✓
Library Spanning			✓
Grace Period and Retention Period Option			✓
Cache Size per Volume Set	10 GB		32-bit-512GB/64-bit-Unlimited
Managed Volume Sets per Server	4		Unlimited
Dated Mount Capable			✓
Upgradable to Data Director			✓


### FEATURES AND BENEFITS




**Single Volume View**




**Media Transportability**



**Off-Line Volume Tracking**



**Schedule Archiving**



**Automated Data Migration**



**On-Line Back and Restore**

### QStar Services

- Standard 90 day Warranty
- Hot Line Support
- Remote Diagnostics
- Onsite Support
- Installation
- Training
- Software Upgrades
- Disaster Recovery

### Platform

- Vista/NT/2000/XP/2003
- IBM AIX
- Hewlett Packard HP-UX
- Sun Solaris
- SGI IRIX
- HP/Compaq Tru64
- Linux

