

# QStar

## HSM Synchronous Archive Replicator

### THE BEST CHOICE FOR LONG-TERM PRESERVATION OF VALUABLE DIGITAL ASSETS

Archives are all about the long-term preservation of valuable data. QStar understands that all archives are different. They fit into specific business environments with their own measurements for success. One organization's archive may need fast restore, another may require offsite storage, a third is looking for data immutability. Trying to find a single solution that fits all these and many more requirements has, in the past, been challenging.

### BLENDING STORAGE TECHNOLOGIES TO CREATE A 3-2-1 ARCHIVE

QStar has created an archive platform that allows users to employ blends of storage technologies to fit their individual requirements for an archive. QStar HSM Synchronous Archive Replicator is based on QStar HSM, software that has been used and trusted by thousands of global customers in multiple industries to manage archives for over 20 years. HSM virtualizes any archive storage, making it appear to be a NAS disk system. This allows users to see the organization's archive as a drive letter, making search and retrieve operations exceedingly simple. Uniquely HSM supports over 20 operating systems; from Windows and Linux to UNIX and even Mac. It also supports the widest range of storage technology choice; Tape, Optical, RDX, Disk, CAS or Cloud.

HSM Synchronous Archive Replicator also virtualizes archive storage, in this case replicating to four different technologies, yet still allowing users to see the whole archive as a drive letter. Archives can be designed that are both fast and secure, that create both a local and remote store, and deliver optimum flexibility to easily employ new technology as it becomes available. QStar calls this the 3-2-1 Archive and Data Protection Best Practice. Three copies of all archived data are retained on two different archive technologies, one copy is for disaster recovery and should be stored at a secondary remote site.

Using low-cost RAID paired with a tape or optical library creates a very flexible yet resilient archive. RAID provides fast retrieval of data for e-discovery purposes. Tape or optical provide the secure copy, using rewritable or for evidentiary purposes, WORM (write once read many) media. Optionally a third, Disaster Recovery, copy can also be created at a secondary site or to Cloud Storage.

## QStar Hybrid Archive & Data Management Solutions

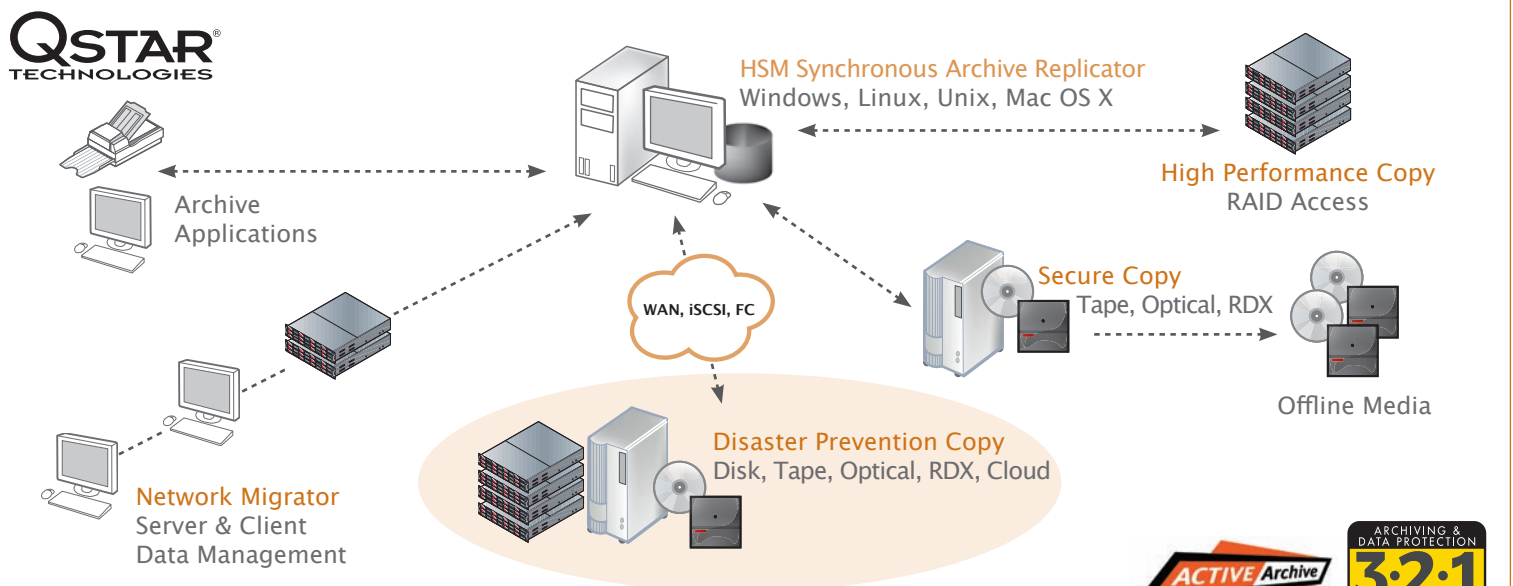


Fig 1: 3-2-1 Archive and Data Protection Best Practice / Replication to three types of archive storage



# HSM Synchronous Archive Replicator

## BLENDING CAS OR OBJECT-BASED STORAGE TO CREATE A 3-2-1 ARCHIVE

For those organizations that have chosen to use CAS (Content Addressable Storage) or Object-based Storage solutions (such as EMC Centera, Hitachi Data Systems HCP, Nexsan Assureon or QStar's own Object Storage Manager) these solutions perform two roles, creating both the "performance" and the "secure" copy. None offer a low-cost DR copy, the primary method to create a DR copy is to buy a second CAS or Object Store and replicate them. With QStar HSM Replicator the primary store can be CAS or Object Storage with a secondary store to any supported device; Tape, Optical or RDX. Alternatively, Cloud Storage could be considered, particularly if the organization does not have a secondary location.

## QStar Hybrid Archive & Data Management Solutions

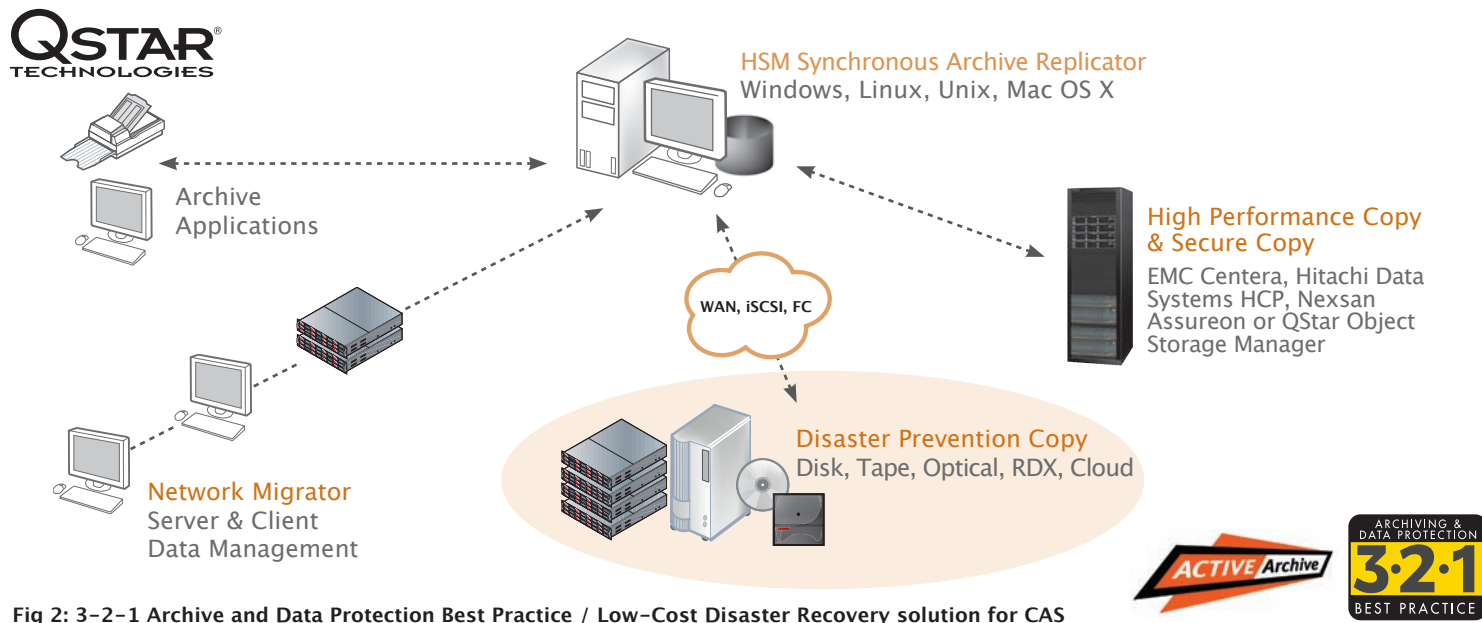


Fig 2: 3-2-1 Archive and Data Protection Best Practice / Low-Cost Disaster Recovery solution for CAS

## OBSOLECENSE FREE ARCHIVE

QStar HSM Replicator supports the idea that data often outlives the storage technology it is placed on. The ability to add new storage technologies and phase out older, uneconomical storage is built into the software. Synchronization tools are available that re-create the archive on new storage by replicating it from other technologies.

Existing users of QStar HSM can easily upgrade their systems, adding a performance copy or offsite store to an existing QStar managed archive. Under certain circumstances, QStar HSM Replicator can also be added to an existing non-QStar archive, providing synchronous replication to a second store.

QStar Synchronous Archive Replicator allows up to four replicas of data to be created on four different technologies using a mix of industry standard or proprietary file systems. Flexibility is the key to creating archives that suit all environments, grow and change with the requirements of the organization and stand the test of time, to provide significant return on investment now and in the future.

## SOLUTION HIGHLIGHTS

- Accessibility – Archive seen as a drive letter irrespective of technology chosen
- Synchronous Replication – up to four copies on different technologies
- Removes the need for backup of the archive
- Supports the concept that “data outlives technology”. Old technology is easily replaced with new
- Available for Windows, Linux, UNIX or Mac servers
- Supports Tape, Optical, RDX, Disk, CAS and Cloud Storage
- Supports blends of Industry Standard and Proprietary File Systems

For more information, please contact QStar:



**QStar Technologies, Inc.**  
2175 West Highway 98  
Mary Esther, FL 32569  
Phone: 850 243 0900  
Fax: 850 243 4234  
info@qstar.com  
www.qstar.com

**QStar Technologies Europe**  
Viale Italia, 12 - 20094  
Corsico - Milano (Italy)  
Phone: +39 02 451 711  
Fax: +39 02 451 01745  
info@qstar.it  
www.qstar.com

