

# Media & Entertainment Digital Archiving

## Oracle's StorageTek Hardware & Discovery Reply Software

With digital assets growing exponentially, IT managers need to archive less active data to lower cost storage mediums and free up space in production systems. IT managers are accomplishing this by introducing low cost and high performing digital tape to their storage environments. Digital tape technology is lower cost, more reliable and less power consuming than disk, making it a natural solution for archiving. Accessing and managing files on tape was historically slow and difficult, when compared to hard-disk-based storage. This is where Discovery Storage Manager (DSM) solution of Discovery Reply enables IT managers to greatly simplify data management and to maintain transparent access to assets even after they have been archived.

### Solution Overview

The Discovery Storage Manager (DSM) is an automated data life cycle management tool that manages the long-term preservation of your assets from the moment the content arrives in the archive. By combining Discovery Reply's management software with Oracle's industry leading storage hardware, IT managers have a complete and automated solution that transfers files from disk to tape or vice versa, based on customized policies.

### Discovery Storage Manager Software

DSM provides a quick and transparent access to your digital assets and the system is easily managed by a complete, policy-based rule-set. DSM enables system administrators to define exactly what they want to be done, when they want it done.

#### Archive Interface

The archive is presented as a network repository using FTP or HTTP standard network protocols, hiding the complexity of the management of data on disk and tape.

#### Multiple Simultaneous Application Support

The system storage resources may be partitioned to support multiple applications simultaneously. A group of tapes and tape drives may be allocated to specific set of data files, according to the size of the data, file properties, or their frequency of access.

#### Optimized Queuing

The DSM software optimizes the queue of requests for assets from the archive, speeding up access to content for end users.

#### Partial File Restore

DSM has the capability to recall from a video file in the archive a video segment portion of a file based on a time code, without streaming an entire file back to the end user.

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### DISCOVERY STORAGE MANAGER

The system can seamlessly manage audio, video, images, documents, raw & binary data. With a proper policies set up you can manage all the kind of digital files in your environment and partition available resources accordingly, equally granting for all of them a robust content safety even in case of disaster.

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## Data Integrity

Data integrity signatures are checked and stored on tape, without the need to rely upon internal database backup for data integrity.

## Multiple Copies & Disaster Recovery

Multiple copies of the same tape medium can be automatically created and stored at another site for disaster recovery purposes. Even in the most severe occurrence, your entire archive can be rebuilt just by reading the data tapes back into the system.

## Data Migration

Media life-cycle policies also can be configured so that the system will automatically rotate data of tapes that have reached their end-of-life without manual intervention.

## Optimized Archive Capacity

DSM provides fully automated defrag capability of your tape mediums and recycles tape medium that are being used inefficiently, saving resources and money.



### STORAGETEK SL150 MODULAR TAPE LIBRARY

The only entry tape library that grows with you. The digital library starts at 30 slots and scales to 300 slots in 10 increments. The maximum capacity of the system is 750 TB of uncompressed data

## Selecting an Archive Format

Both digital tape and disk hardware systems are leveraged in media and entertainment archive environments, but the mix between digital tape and disk is evolving. Over the past several years, digital tape capacities have grown rapidly while increases in disk capacities have slowed. Today the highest capacity digital tape is 8.5TB while disk capacities are around half of that. Additionally, disk systems consume more power and are refreshed more frequently than digital tape, leading to a higher TCO. A detailed analysis of disk versus digital tape costs is available in a public report from a leading storage industry analysts, The Clipper Group:

<http://www.clipper.com/research/TCG2013009.pdf>

## Flexibility and Scalability

Oracle's StorageTek portfolio is engineered for digital archiving, with the most scalable digital tape libraries in the world. Reply's DMS software can seamlessly scale from an entry-level tape solution to a larger modular environment. Reply Discovery and Oracle work together to ensure seamless integration for the following hardware products:

Digital Tape Libraries	Digital Tape Drives
StorageTek SL8500 Modular Tape Library	LTO 4, LTO 5, LTO 6 FC
StorageTek SL3000 Modular Tape Library	LTO 4, LTO 5, LTO 6 FC
StorageTek SL150 Modular Tape Library	LTO 5, LTO 6 (HP HH) Fibre Channel & SAS

## About Discovery Reply

Discovery Reply is a division of the Reply Group that specializes in Digital Asset Management solutions for managing the entire life-cycle of digital business assets, such as videos, images, audio files, and graphic documents. Reply supports some of Europe's leading industrial groups in Telco & Media, Industry & Services, Banks & Insurance, and Public Administration to define and develop business models, suited to the new paradigms of Big Data, Cloud Computing, Digital Media and the Internet of Things. [www.reply.eu](http://www.reply.eu) - Contacts: [discovery@reply.it](mailto:discovery@reply.it)

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