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# Extended Data Life Management

## Data Protection Industry Exclusive by Quantum

Quantum is taking long term-data protection to a new level with Extended Data Life Management (EDLM), the new next generation iLayer feature.

As increasing amounts of data and content are getting stored over longer periods of time, how do you know the data will be available when needed? Are you confident that data that has sat untouched for years is still restorable?

This problem is common to most organizations that retain their data for long periods of time. Whether the need is archiving primary data, retention for legal compliance, or a creating copy for disaster recovery, customers are asking for a way to monitor the health of their valuable data over long retention periods.

EDLM solves this problem by enabling users to proactively check the health of data on tape cartridges and thereby avoiding the risk of losing data on cartridges showing signs of failure. EDLM supports all LTO-2 through LTO-5 cartridges, allowing users to scan cartridges already in long-term storage.

EDLM is very easy to use. Users can set policies to automate the data integrity scanning process. This automation eliminates the need for user intervention, saving users time. In addition, e-mail notifications can be configured to immediately inform you when your data is at risk.

When combined with Quantum's StorNext® Storage Manager archiving software, EDLM can even migrate data from a suspect cartridge to a new cartridge while maintaining full library awareness of bar code and media identification changes.

Here's how you use it:

The first step is to create an EDLM partition, which the Scalar® i6000 tape library will use to perform the actual EDLM scanning without disrupting normal library operations. The user will then define the EDLM policy from the Scalar i6000 user interface by setting (1) how often EDLM is performed, for example once every six months, (2) which type of EDLM scan to perform (Quick Scan, Normal Scan, Full Scan), and (3) what action the library should to take in the event of a suspect or bad tape.

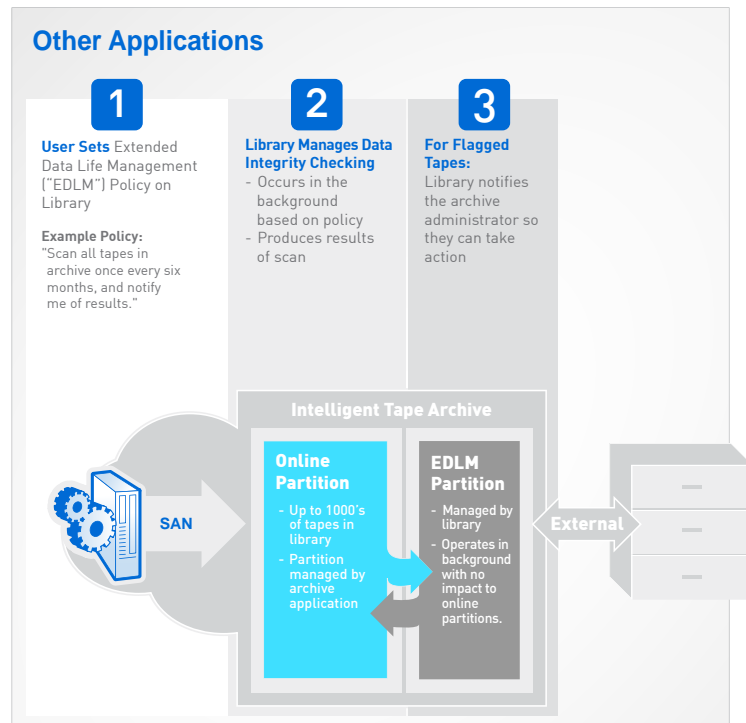
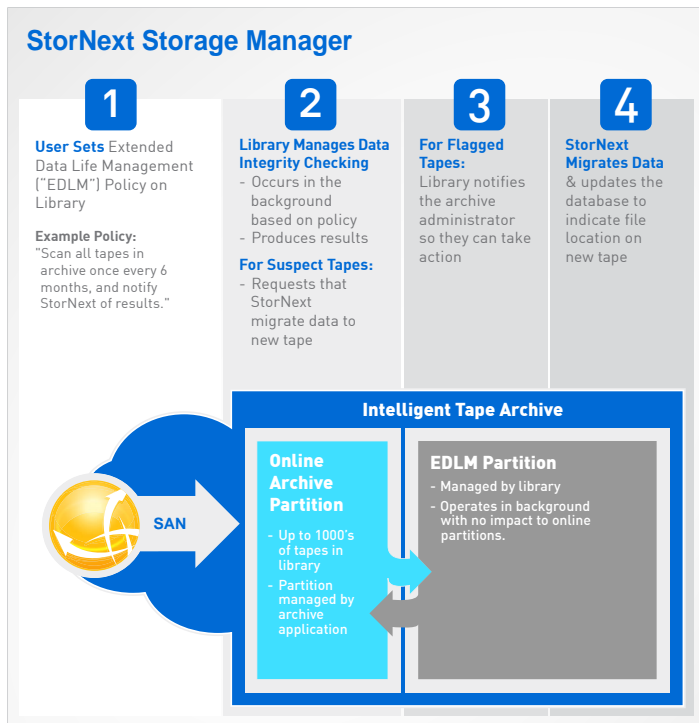
### TYPICAL USES FOR EDLM INCLUDE:

- All cartridges are scanned at a regular frequency (e.g., six months or one year). Cartridges can be kept in the library or returned from a vault or offline storage and imported into the library managed partition for scanning.
- A subset of cartridges are scanned each month. If the sample cartridges return good results, no additional action is taken. If results are questionable, more cartridges can be scanned to determine the extent of the risk.
- If a scan results in a yellow or red cartridge status, the administrator can rescan the cartridge using Full Scan. If the scan result still indicates that the data is at risk, the administrator can migrate the data to a new cartridge.
- Cartridges can be scanned before reintroducing them back into operations. Removing suspect cartridges can prevent disruptions to operations due to bad media.
- Customers can use their production or test libraries to scan cartridges as EDLM does not impact performance of the other partitions. Another option is to place a dedicated EDLM library where your archived/vaulted cartridges are located.

### BENEFITS

- Increased confidence in retrieving content from tape
- Automated process minimizes user intervention, saves time, improves reliability
- No impact to production operations because it uses offline library partition
- Works with all your tapes: LTO-2, LTO-3, LTO-4 and LTO-5 cartridges, from any vendor
- Three-level scanning model allows you to tune your process throughput
- Scan results automatically trigger the appropriate actions and communications
- Results are presented in a color coded easy to understand display

Here's what it does:



**WITH QUANTUM STORNEXT STORAGE MANAGER:**

- ▶ Library manages data integrity checking in the background based on policy
- ▶ Library produces results of scans
- ▶ Library executes notifications based on policy
- ▶ For suspect tapes, requests that StorNext migrate data to new tape
- ▶ StorNext migrates data and updates the database to indicate file location on new tape

**WITHOUT QUANTUM STORNEXT:**

- ▶ Library manages data integrity checking in the background based on policy
- ▶ Library produces results of scan
- ▶ Library executes notifications based on policy
- ▶ For flagged tapes, library notifies the archive administrator so they can take action

EDLM complements the drive and media information provided by the Advanced Reporting feature, provided with Quantum Scalar tape libraries. Advanced Reporting protects you from data integrity issues on cartridges that are actively being used in production operations. EDLM protects your archived cartridges that are no longer actively being used in production. Together these two iLayer features offer you complete protection against data and media errors.

You can take advantage of Extended Data Life Management on your existing Scalar i2000 tape library by upgrading to a Scalar i6000 tape library.

**Quantum**<sup>®</sup>

Preserving the World's Most Important Data. Yours.<sup>™</sup>

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