

Quantum.

# SCALAR EXTENDED DATA LIFE MANAGEMENT (EDLM)



## DATASHEET

### FEATURES & BENEFITS

#### Automated Media Health Checks

Monitors data/media health, alerts, and proactively takes action on suspect media, ensuring data is available when needed.

#### Integrated Management

Save administration time by configuring and managing EDLM from the library interface.

#### Reduced Administration Time

Policy-based scanning enables set-and-forget operation as media scans are based on user-defined policies to meet their requirements.

#### Three Scanning Options

Enable fine-tuning of scanning processes to meet user needs.

#### Background Operation

Operates entirely in the background, with dedicated scanning tape drives, ensuring there is no impact on production operations.

#### StorNext Integration

When deployed with Quantum StorNext, data on suspect tapes can be automatically copied to new tapes, creating a self-healing archive.

### Maintain Healthy Media for Long-Term Data Preservation

It's no secret that the amount of data being generated and retained by organizations continues to grow. Not only is the volume of data growing, but so are their long-term data retention requirements. Tape technology has the lowest storage TCO, which is why tape libraries are widely used for the long-term preservation of data.

#### DATA INTEGRITY

With large volumes of data being stored for many years and much of it not being touched, it's important to know the data will maintain its integrity. Whether archiving primary data, retaining data for regulatory compliance, or for disaster recovery, it's critical to monitor the tape cartridges when stored for long periods to ensure they remain healthy and the data remains available.

#### SCALAR EDLM

Scalar® Extended Data Life Management (EDLM) is an optional licensed feature that proactively monitors data/media health, alerts, and proactively takes action on suspect media. EDLM is very easy to use, as user-defined policies automate the data integrity scanning process that runs entirely in the background without interruption of production processes. EDLM enables a set-and-forget operation to ensure the health of inactive data during long-term storage over multiple years.

#### SCANNING POLICIES

The user-defined policies are simple to configure using the intuitive library user interface. Scanning policies can be event based, such as whenever a tape is imported to the library. Policies can also be time based or a combination of both event and time based. Additionally, there are three levels of scanning available, enabling users to tune the automated health checks to meet their specific requirements.

#### STORNEXT INTEGRATION

For unstructured data use cases where a Scalar Tape Library is deployed with StorNext® Storage Manager, if EDLM identifies a suspect tape, StorNext can be configured for an automatic copy operation of a suspect or failed tape, migrate the data to a new tape and update its database to reflect the new file locations. For other applications, EDLM will send a notification of suspect tapes based on policies for administrators to take action, such as make a new tape copy.

LEARN MORE:

[www.quantum.com/scalar](http://www.quantum.com/scalar)

GENERAL

Library Support:<sup>(1)</sup> Scalar i6000, Scalar i6, Scalar i500  
 Media Support:<sup>(2)</sup> LTO-6, LTO-7, LTO-7 (M8), LTO-8, LTO-9

(1) Scalar libraries require purchase of an optional EDLM license.  
 (2) Requires the purchase of appropriate LTO generation EDLM scanning drives.

SCANNING POLICIES

**Quick Scan:** Does not scan the tape. Evaluates data from the cartridge memory (CM) only. A quick scan takes **less than one minute** per tape.

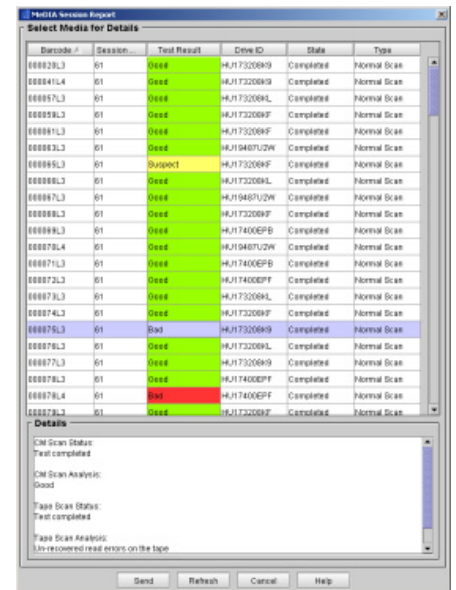
**Normal Scan:** Evaluates the CM and scans selected portions of the tape, focusing on areas most likely to indicate problems. A normal scan can take **20 minutes** per tape. This time should remain the same regardless of the LTO media generation being scanned.

**Full Scan:** Evaluates the CM and scans the media where data is written. The time it takes to complete a full scan varies. The table below provides the time\* it takes to complete a full scan on LTO media.

Time to Complete a Full Scan

Media	Native Throughput** (MB/sec)	Native Capacity (GB)	Native Max Scan Time (Hours)
LTO-9	400*	18,000	20
LTO-8	360*	12,000	15
LTO-7 (M8)	300	9,000	12
LTO-7	300	6,000	7
LTO-6	160	2,500	6

\* The scanning times listed in the table assume that the tapes are full of data. EDLM scans the portion of tape with data. If the tapes are less than full, the time it takes to complete a full scan will be similarly reduced.  
 \*\* Native throughput on full-height drives.



STORNEXT INTEGRATION

When deployed with StorNext, an automated copy policy is available. When selected and configured, this policy automatically requests StorNext Storage Manager to copy all data from a suspect tape to another tape. StorNext then updates the location of all files to the new tape.



Quantum technology, software, and services provide the solutions that today's organizations need to make video and other unstructured data smarter – so their data works for them and not the other way around. With over 40 years of innovation, Quantum's end-to-end platform is uniquely equipped to orchestrate, protect, and enrich data across its lifecycle, providing enhanced intelligence and actionable insights. Leading organizations in cloud services, entertainment, government, research, education, transportation, and enterprise IT trust Quantum to bring their data to life, because data makes life better, safer, and smarter. Quantum is listed on Nasdaq (QMCO) and the Russell 2000® Index. For more information visit [www.quantum.com](http://www.quantum.com).

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