

“ We never hesitate at introducing Coolspirit to any customer looking for a Quantum product or solution regardless of whether it is a few dozen media or a complete backup system. Their focus on customer needs is second to none. ”

Ewan Johnson
Quantum Storage UK

Our address

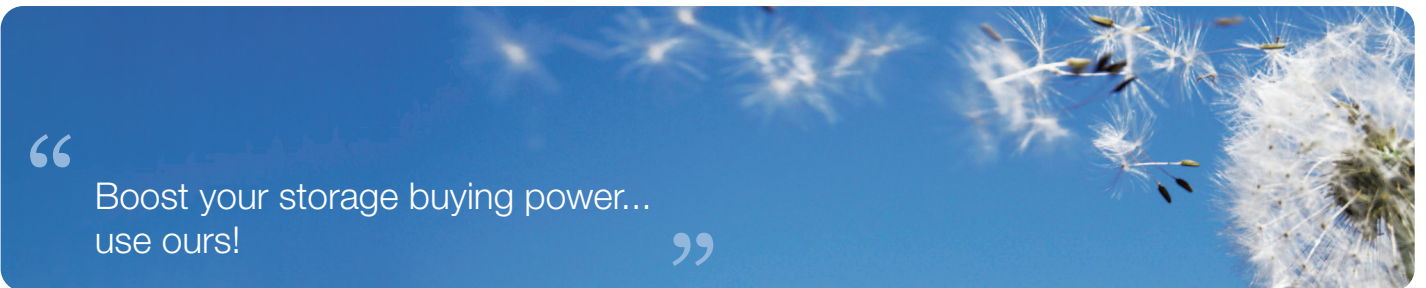
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Quantum is taking long term-data protection to a new level with MeDIA, the new next generation iLayer feature. Learn how Quantum customers are using the new Media Data Integrity Analysis (MeDIA) feature to protect their data even after it leaves the library. MeDIA is changing how customers archive/vault their data.

The screenshot shows a 'MeDIA Scan Report' window with a table of scan results. The table has columns for Barcode #, Session, Test Result, Drive ID, State, and Type. The 'Test Result' column is color-coded: green for 'Good', yellow for 'Suspect', and red for 'Bad'. A 'Details' pane at the bottom left shows the status of the scan (CM Scan Status: Test completed, CM Scan Analysis: Good, Tape Scan Status: Test completed, Tape Scan Analysis: Unrecovered read errors on the tape).

Barcode #	Session	Test Result	Drive ID	State	Type
000020L3	01	Good	HU173208K9	Completed	Normal Scan
000041L4	01	Good	HU173208K9	Completed	Normal Scan
000057L3	01	Good	HU173208K4	Completed	Normal Scan
000069L3	01	Good	HU173208K7	Completed	Normal Scan
000061L3	01	Good	HU173208K7	Completed	Normal Scan
000063L3	01	Good	HU19487U2W	Completed	Normal Scan
000065L3	01	Suspect	HU173208K7	Completed	Normal Scan
000066L3	01	Good	HU173208K4	Completed	Normal Scan
000067L3	01	Good	HU19487U2W	Completed	Normal Scan
000068L3	01	Good	HU173208K7	Completed	Normal Scan
000069L3	01	Good	HU17400EPB	Completed	Normal Scan
000070L4	01	Good	HU19487U2W	Completed	Normal Scan
000071L3	01	Good	HU17400EPB	Completed	Normal Scan
000072L3	01	Good	HU17400EPF	Completed	Normal Scan
000073L3	01	Good	HU173208K4	Completed	Normal Scan
000074L3	01	Good	HU173208K7	Completed	Normal Scan
000075L3	01	Bad	HU173208K9	Completed	Normal Scan
000076L3	01	Good	HU173208K4	Completed	Normal Scan
000077L3	01	Good	HU173208K9	Completed	Normal Scan
000078L3	01	Good	HU17400EPF	Completed	Normal Scan
000079L4	01	Bad	HU17400EPF	Completed	Normal Scan
000079L3	01	Good	HU173208K7	Completed	Normal Scan

MeDIA scan report

As increasing amounts of data are stored over longer periods of time, how do you know the data will be available when needed? While tape is a highly reliable technology and the data is verified when written, it is difficult to verify the integrity of data years after it is vaulted or archived. As tapes are moved to different environments, even slight cartridge mistreatment or brief placement in unfavorable environments could prevent future access to the data. The new, exclusive Media Data Integrity Analysis (MeDIA) feature from Quantum provides you a way to check the integrity of your data after it has been archived or vaulted.

MeDIA uses a library managed partition to scan cartridges in the background with no impact to production operations. The library managed partition is created like any other partition, with its own cartridge slots, I/E slots and special MeDIA tape drives used for scanning. This partition is only visible to the library administrator and is not presented to the backup and archive applications that use the library. The library prioritizes production jobs ahead of the library managed partition scans. Thus, MeDIA can continuously scan tapes without interruption to other library operations.

MeDIA uses three levels of scanning: Quick Scan, Normal Scan and Full Scan. Each level of scanning executes a deeper level of integrity check on the data written to the tape. Quick Scan can be used to check basic information about the cartridge by pulling all data from the cartridge's memory chip and comparing the data against LTO media vendor specifications. Normal Scan verifies data integrity by scanning a sample of the data on the cartridge.

TYPICAL USES FOR MEDIA INCLUDE:

- All cartridges are scanned at some 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.
- Customers can use their production or test libraries to scan cartridges as MeDIA does not impact performance of the other partitions. Another option is to place a dedicated MeDIA library where your archived/vaulted cartridges are located.

FEATURES & BENEFITS

- Three levels of scanning provide appropriate options for each cartridge
- Scan LTO-2, LTO-3, LTO-4 and LTO-5 cartridges from any LTO media vendor
- Scans run in the background with no impact to operations, priority is given to production jobs
- Simple red, yellow and green summary reports makes it easy to determine if problems exist
- Detailed test results available for each cartridge
- Special purpose MeDIA tape drives used are used to test cartridges, providing accurate results
- Complementary to Advanced Reporting in the Scalar libraries
- Easily manage encryption keys, mitigating risk of lost data, working seamlessly with encrypted data
- Available on the Scalar i6000 tape library (or upgraded Scalar i2000 libraries)

Full Scan verifies the integrity of all data on the cartridge. These scanning options offer the administrator flexibility in checking cartridges, and Quantum's MeDIA feature can scan tapes from any LTO vendor.

MeDIA complements the drive and media information provided by the Advanced Reporting feature, provided with Quantum Scalar libraries. Advanced Reporting protects you from data integrity issues on cartridges that are actively being used in production operations. MeDIA 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 the MeDIA feature on your existing Scalar i2000 library by seamlessly upgrading to a Scalar i6000 library.