

RANSOMWARE PROTECTION PACKAGES FOR PROTECTING CRITICAL DATA

Ransomware protection packages combine tape libraries with a built-in, off-network vault.

THE RISING THREAT OF RANSOMWARE

The threat of ransomware continues its onslaught on the enterprise backup environment. Ransomware infections rose by 12% in 2019, targeting storage and mobile applications. These cyberattacks are getting more sophisticated and are holding organizations hostage until they pay millions in ransom.

Although most companies regularly back up data, they are still vulnerable to ransom attacks that target entire networks and backup systems, and even the cloud. Tape storage is the most effective protection against ransomware, because it provides an offline, air-gapped copy due its physical separation from the network—making tape inherently secure.

RANSOMWARE PROTECTION PACKAGES: OFFLINE DEFENSE BUNDLES

To provide an offline defense against ransomware, we created Ransomware Protection Packages, three pre-defined hardware/software bundles—small, medium, and large—ranging from 600 TB to 2.4 PB of storage. Each bundle includes a Quantum Scalar® tape library and Active Vault software, which manages the offline partition within the library. These are specifically designed to be the most secure way to truly store your data offline.

FEATURED BENEFITS

- **Proven Security Protection.** Tape is inherently secure because data is stored offline, making it a proven solution against modern cyberattacks. It's your last line of defense since criminals can't delete or encrypt what they can't access over a network.
- **Minimize Complexity, Maximize Efficiency.** Ransomware Protection Packages come in small, medium and large capacity points fully loaded with security features. Quantum's unique Active Vault feature, combined with military-grade encryption and Write Once Read Many (WORM) technology, creates an ultra-secure place to keep a backup copy of your data.
- **Cost-effective, Reliable Long-term Storage.** With up to 30 TB of capacity, Quantum LTO tape can store more data in a single cartridge at the lowest cost than commonly leveraged media types, such as disk or cloud. In addition, power, rack space costs, and data center footprint are dramatically reduced.
- **Saves Operator Time by Eliminating Manual Media Handling.** The biggest drawback in using tape is the human element of time and management. With Active Vault, the operator does not have to leave their desk to physically interact with the library or media.
- **No Egress Charges to Recover Data.** When your disk and replicated copies have been compromised, you can trust a copy is secure in the active vault partition. To retrieve, you don't have to pay extra fees. Simply move the tapes back using the library GUI and the tape library does the rest.



RANSOMWARE PROTECTION PACKAGE FEATURES

Ransomware Protection Packages come in three pre-configured versions to simplify the selection process for choosing the capacity you need protected. Feature highlights include:

- **Ransomware Protection Packages** come in small, medium, and large capacity points fully loaded with security features.
- **The Active Vault feature**, only available in Quantum’s Scalar tape libraries, builds on tape’s inherently secure offline nature by creating a totally offline vault within the library itself creating a secure “Ransomware-Free Zone.”
- **The Active Vault feature** can combine with military-grade encryption and Write Once Read Many (“WORM”) technology to create an ultra-secure place to keep a backup copy of your data.
- **Ransomware Protection Packages** can be sold with new system purchases or may be purchased separately for existing Quantum Scalar i3 and Scalar i6 tape libraries.



Specification	Small – 3U	Medium – 6U	Large – 12U
Capacity*	Includes space for up to 600 TB capacity	Includes space for up to 1.2 PB capacity	Includes space for up to 2.4 PB capacity
Recommended Tape System Configuration	Scalar i3, 50 total slots One (1) LTO-8 HH drive Twenty (20) LTO-8 tapes	Scalar i6, 100 total slots Three (3) LTO-8 FH drives Fifty (50) LTO-8 tapes	Scalar i6, 200 total slots Six (6) LTO-8 FH drives (100) LTO-8 tapes
Support	One-year Bronze 5x9	One-year 7x24x4 Gold	One-year 7x24x4 Gold
Ransomware Protection Pack: Software Add-On	<ul style="list-style-type: none"> • Active Vault software license • Scalar Key Manager servers and associated tape drive licenses • Advanced Reporting software license 		

* Capacities referenced above can be any combination of backup storage and Active Vault storage, as defined by the administrator. Backup storage slots must be licensed with Capacity-on-Demand licenses.



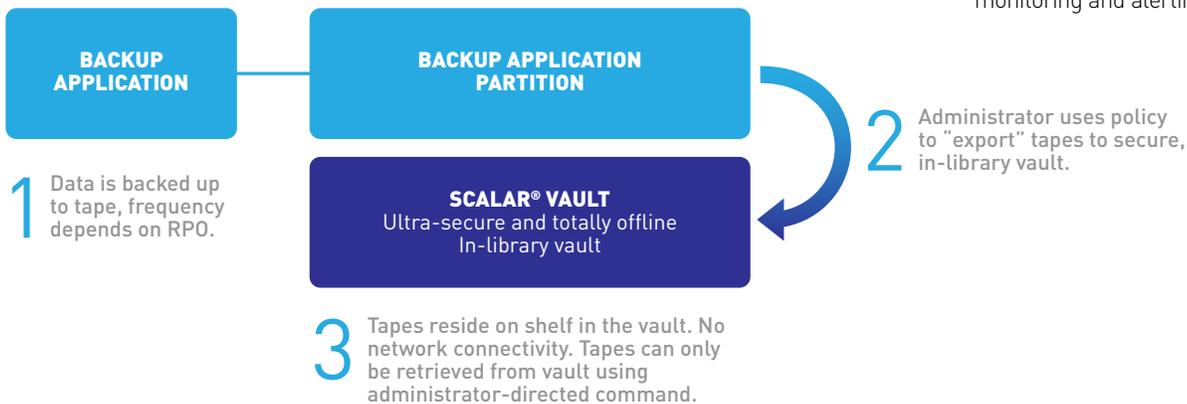
SCALAR ACTIVE VAULT

Provides automated movement into an ultra-secure, offline vault.

Quantum’s unique Active Vault—a feature of Quantum’s Scalar tape libraries—enables you to keep an ultra-secure, air-gapped copy of data that is also protected from human error. The Active Vault feature builds on tape’s inherently secure offline nature by creating a totally offline vault within the library itself creating a secure “Ransomware-Free Zone.” The automated in-library vaulting cuts out the manual need to handle tapes or transport them, which greatly reduces the chances of tape damage, contamination, or human error.

ACTIVE VAULT BENEFITS

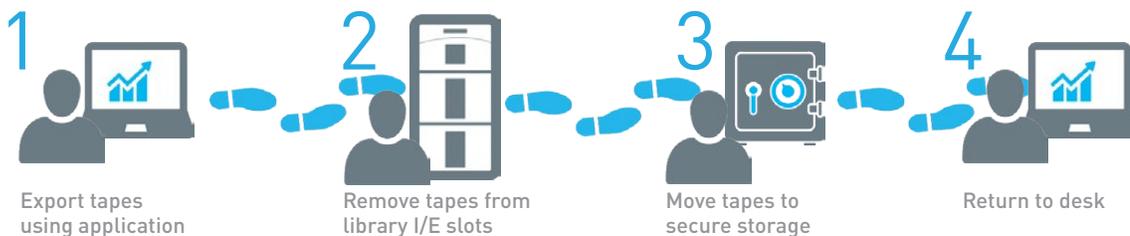
- Provides ultra-secure, offline data storage
- Saves operator time
- Eliminates manual media handling
- Saves storage space
- Transparent to applications
- Enables lights-out and remote vaulting
- Eliminates risk of physical media damage or loss
- Secures media from accidental exposure
- Enables proactive media condition monitoring and alerting



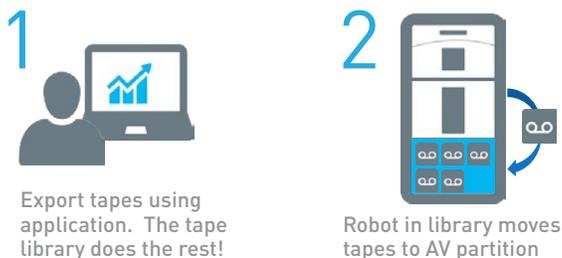
- **Eliminates tape damage and loss.** Eliminates risk of physical media damage or loss which is another danger that can put vaulted data at risk—media degradation. EDLM is an optional feature available on the i6 package. Tape drives used for EDLM scanning have their external data ports disabled, so the integrity of the Active Vault is maintained. Even if these drives are accidentally connected to the storage network, no data may be accessed.
- **Reliability and security.** Active Vault provides security for data in several ways. AV partitions may not be exposed externally to applications. The library software simply does not allow it. An operator cannot accidentally put vaulted tapes “online,” exposed to threats. AV partitions also contain no tape drives, providing an additional barrier to access.

Vaulting Flow

MANUAL VAULT



ACTIVE VAULT



VAULTING PROCESS FLOW

The above illustration shows the operator experience with manual vaulting vs. Active Vault. With Active Vault, the operator takes no additional steps and does not have to leave their desk to physically interact with the library or media. The library can even be in a lights-out facility thousands of miles away.

FOR MORE INFORMATION

For more information about Ransomware Protection Packages and Active Vault, visit: www.quantum.com/ransomware-protection



Quantum technology and services help customers capture, create, and share digital content—and preserve and protect it for decades at the lowest cost. Quantum’s platforms provide the fastest performance for high-resolution video, images, and industrial IoT, with solutions built for every stage of the data lifecycle, from high-performance ingest to real-time collaboration and analysis and low-cost archiving. Every day the world’s leading entertainment companies, sports franchises, research scientists, government agencies, enterprises, and cloud providers are making the world happier, safer, and smarter on Quantum. See how at www.quantum.com.

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