The threat of ransomware continues its onslaught on the enterprise backup environment. Tape can play a critical role in recovery. Having an offsite and offline copy stored on tape—airgapped—ensures there is a copy of data that cannot be accessed by a hacker. This means there is always a way to recover the data without paying ransom. When an air gap is done properly, it can also ensure recovery from internal attacks. Although most companies regularly back up data, they are still vulnerable to cyber attacks that target entire networks and backup software applications, and even the cloud. Tape storage is one of the most effective protections against ransomware, because it provides an offline, air-gapped copy due to its physical separation from the network—making tape inherently secure.

**BUILT-IN OFF-NETWORK SECURE VAULT**

- The Active Vault software license creates a library partition that is invisible to the backup software. Effectively, the data placed in this partition is kept hidden and secured. Because tapes are exported, the backup application thinks media was moved off site as it has no visibility to the in-library vault.
- Adds another layer of protection should a criminal gain access to the backup software. The bad actor cannot see nor have access to media in the “hidden” and secured Active Vault partition of the library.
- Media in the Active Vault partition is brought back through a Multi-Factor Authenticated (MFA) web GUI or the library panel.
- Automated media handling removes all complexity. Tapes remain in the “vault” and secured partition of the library.

**FEATURED BENEFITS**

- **Ultimate Security Protection.** Quantum tape is the most secure library because Active Vault software creates a ransomware-free, off-network vault in the library, making it a proven solution against modern cyber attacks.
- **Multi-factor authentication (MFA) is included.** MFA protects library admin/user accounts with an additional layer of security via a time-based one-time password.
- **Cost-Effective, Long-Term Storage.** With up to 30 TB of capacity, LTO-8 tape stores more data in a single cartridge at a lower cost than any other media type. Plus, power, rack space costs, and data center footprint are dramatically reduced.
- **Saves Operator Time, Eliminates Manual Handling.** With Active Vault (AV), the operator does not have to leave their desk to physically interact with the library or media.
- **No Egress Charges to Recover Data.** When copies on disk have been compromised, simply move the tapes back using the library GUI—you pay no extra fees.
SCALAR ACTIVE VAULT RANSOMWARE SOFTWARE LICENSE

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

Quantum’s unique Active Vault software license—only available in 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 software license enables you to build onto tape’s inherently secure offline nature by creating a totally offline vault within the library itself, creating a secure “ransomware-free” partition. The automated in-library vaulting cuts out the manual complexity of manually handling tapes or transport them, which greatly reduces the chances of tape damage, contamination, or human error.

KEY BENEFITS

- Provides ultra-secure partition, offline data to protect against cyber threats
- Automates media handling, removes complexity, increasing performance and operator efficiency
- Invisible to backup applications
- Eliminates most risk of physical media damage or loss
- Helps secure media from accidental/ malicious exposure such as negligence, human error, or internal threats
- Enables proactive media condition monitoring and alerting
- Optional Benefit: Write Once, Read Many (WORM) Technology ensures no overwritten data while maximizing storage capacity
- Enables lights-out and remote vaulting

Vaulting Workflow, Before & After Active Vault

SIMPLE RANSOMWARE RECOVERY PACKAGES WITH ACTIVE VAULT SOFTWARE LICENSE

<table>
<thead>
<tr>
<th>Specification</th>
<th>Small – 3U</th>
<th>Medium – 6U</th>
<th>Large – 12U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity*</td>
<td>Up to 600 TB capacity</td>
<td>Up to 1.2 PB capacity</td>
<td>Up to 2.4 PB capacity</td>
</tr>
<tr>
<td>Recommended Configuration**</td>
<td>Scalar i3, 50 total slots One (1) LTO-8 HH drive Twenty (20) LTO-8 tapes</td>
<td>Scalar i3, 100 total slots One (1) LTO-7 HH drive &amp; One (1) LTO-8 HH drive Twenty (20) LTO-8 &amp; Twenty (20) LTO-7 tapes</td>
<td>Scalar i6, 200 total slots Three (3) LTO-8 FH drives One hundred (100) LTO-8 tapes</td>
</tr>
<tr>
<td>Support</td>
<td>One-year 5x9 Bronze</td>
<td>One-year 7x24xNBD Gold</td>
<td>One-year 7x24x4 Gold</td>
</tr>
<tr>
<td>Ransomware Recovery Software Add-On for Existing Scalar Libraries***</td>
<td>• Active Vault software license</td>
<td>• Advanced Reporting software license</td>
<td></td>
</tr>
</tbody>
</table>

*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.

**Any variations to advertised recommended configuration may alter promotional starting price.

***No additional purchase of hardware necessary to purchase software add-on bundle. Please contact your authorized Quantum reseller for more details.

FOR MORE INFORMATION

For more information about Ransomware Recovery Packages and Active Vault: visit [www.quantum.com/ransomware-recovery](http://www.quantum.com/ransomware-recovery)