

# SCALAR RANSOM BLOCK

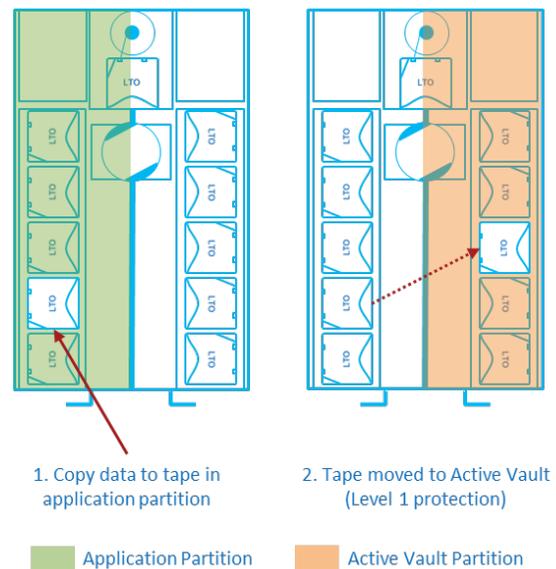
## AND ASSOCIATED FEATURES FOR CYBER PROTECTION

### TECH BRIEF

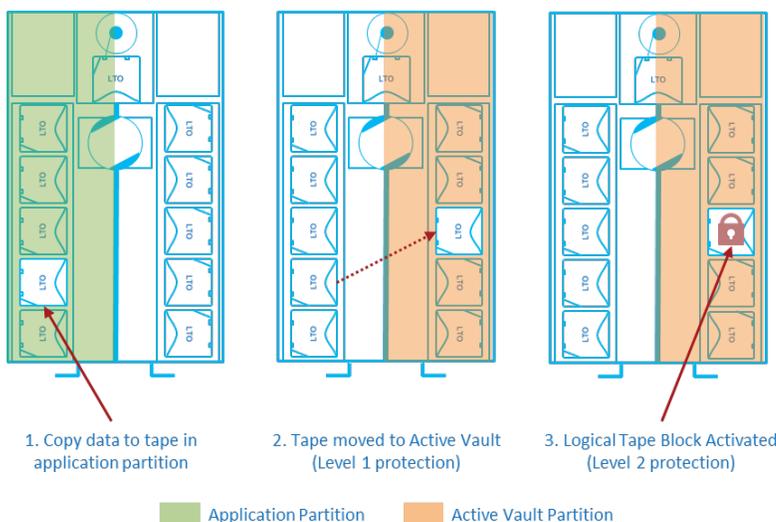
When it comes to data integrity and cyber protection, Quantum Scalar® Tape systems offer three specific features that provide different levels of security for protecting data stored on tape: **Active Vault**, **Logical Tape Blocking**, and **Ransom Block**. These features are automated, can be initiated remotely without requiring human intervention, and all are exclusive to Quantum. These features are explained below in order of increasing security.

### Active Vault

The Active Vault feature enables tapes to be moved into a secure, isolated in-library vault partition that has no network connectivity and is not visible to any application or network. This feature provides an additional layer of security on top of tapes stored in an active partition, though there is still a small risk of data compromise in the unlikely event that the tape library is hacked. Active Vault works with any application and provides an additional layer of security for media without exposing them to the environmental dangers inherent in manually handling tapes or removing them from the library.



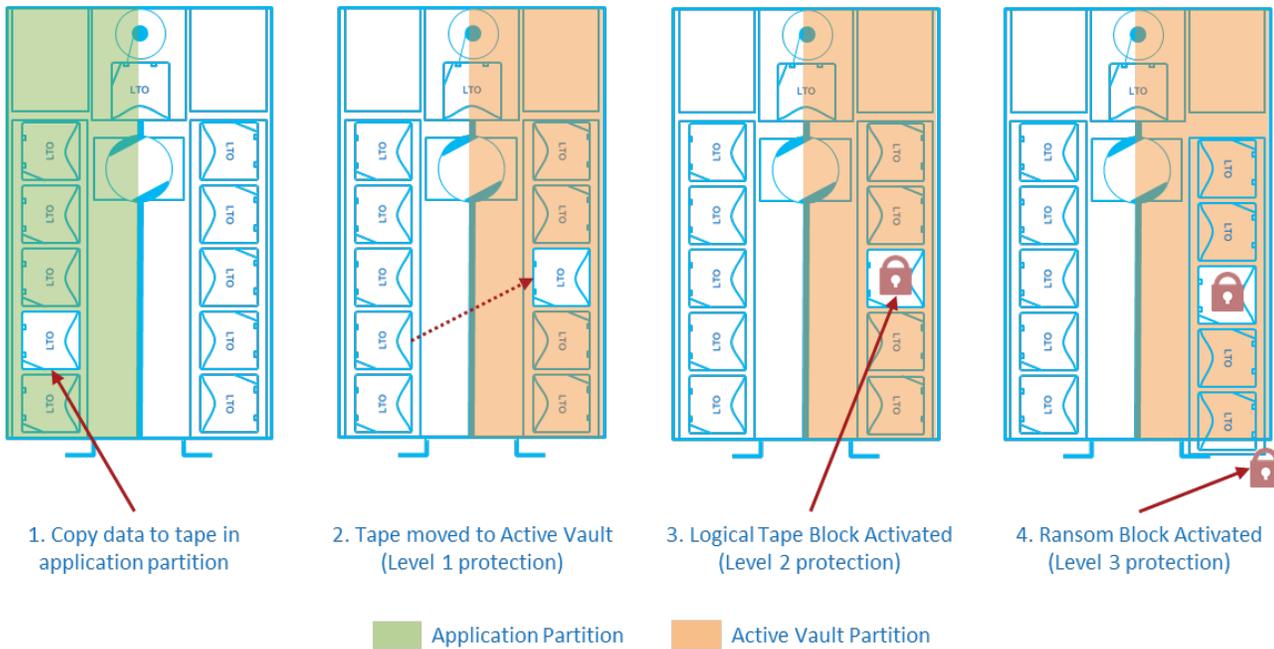
### Logical Tape Blocking



Logical Tape Blocking is a software policy-based block that's placed on a tape magazine. When a tape is moved into a covered magazine, Logical Tape Blocking denies future requests to move that tape elsewhere, such as into a drive, providing an additional layer of security on top of Active Vault. To allow blocked tapes to be accessed again, the magazine must be ejected from the library and then re-inserted; operations that require the operator to be physically present at the library. Logical Tape Blocking may be enabled remotely, but can only be disabled using the local library operator panel, again requiring physical presence in the data center. Logical Tape Blocking may be used on its own, but is ideally used with Active Vault and Ransom Block to provide the best security.

## Ransom Block

The Scalar Ransom Block feature employs a simple and unique concept to create a physical barrier between data stored on tapes and the network connected tape library. Tapes stored in the library sit in a magazine. Quantum’s patent-pending design partially ejects the magazine so the tapes cannot be picked by the robot until an operator physically re-inserts the magazine. Because the magazine is only partially ejected, the barcode scanner on the robot can still scan the tape barcodes, so that system administrators can perform periodic audits of the tape system to ensure tapes are still present.



The tapes are inaccessible until an operator, who must have physical access to the tape library, re-inserts the magazine. Ransom Block provides the highest layer of security. It protects data on tapes from remote attack as securely as exporting the media and putting it in a vault, but with the advantage that their presence may be verified at any time, even from afar.

## Quantum

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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