

Fact Check

From Tape to VTL with FAST LTA

How organizations modernize their existing tape environment without rebuilding software, workflows and retention policies.

Tape remains popular for backup and archiving, but organizations today need faster recovery, better ransomware protection and simpler compliance. With a Virtual Tape Library on Silent Bricks, the familiar tape logic is preserved, while physical tape is replaced by modern storage with faster access, built-in data protection, energy-efficient operation and modern air gap capabilities.

This guide shows what that looks like in practice.

VTL-specific Advantages

1 Modernize without rebuilding everything

Silent Bricks can emulate existing tape libraries 1:1. This means backup software, HSM environments, workflows and retention policies remain largely intact.

Organizations replace the physical tape layer, but do not have to redesign their entire backup strategy. Additionally, Silent Bricks can flexibly and at the desired pace support backup-to-disk or backup-to-object scenarios. This is useful when a backup strategy may change in the future.

2 Faster access to data

Traditional tape works linearly. Data must first be loaded, wound and positioned.

Silent Bricks offer random access via hard disks or NVMe. This allows specific data to be accessed and restored faster. Especially in the event of ransomware, data center failures or urgent information requests, this makes a big difference.

3**Less physical management**

Tape requires manual swapping, labeling, transporting, storing and checking. This takes time and makes processes prone to errors.

With VTL on Silent Bricks, a large part of this tape logistics disappears. Data remains easier to manage, while offline and air gap scenarios remain possible.

4**Built-in data protection**

Silent Bricks use 12/8 Erasure Coding. This means that up to four of the twelve data carriers can fail without data loss.

In addition, automatic Digital Audits regularly check the integrity of data. The system does not wait until a restore fails, but actively checks whether data is still correctly available.

5**Air gap remains physically executable**

An important reason to use tape is physical isolation. That principle also remains central with Silent Bricks.

With SB Pro, air gap is created by ejecting the Brick and physically removing it. Silent Brick Max Air can galvanically disconnect the connection to the storage media. This keeps air gap manageable, without being fully dependent on manual tape processes.

6**Scalable and energy-efficient**

Silent Bricks are developed for large secondary storage environments. The Controller X can be expanded to more than 6 PB.

Individual Bricks can be almost completely powered down when inactive. This allows the solution to combine active availability with low energy consumption for data that is not continuously needed.

Core Message

VTL with Silent Bricks modernizes existing tape environments without changing trusted processes. Organizations benefit from faster access to data, less management, built-in data protection, energy-efficient storage and modern air gap capabilities, making VTL a logical evolution for those looking for more speed, security and control.

Hello.

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