

IP TAPE LIBRARY

ENTERPRISE TAPE. POWERED BY IP.

Ethernet Connectivity — No Fibre Channel Required

LT ZERO IP Tape Library brings enterprise tape storage to modern IP environments. By delivering tape connectivity over standard Ethernet, organizations can deploy secure, scalable, and cost-effective tape backup without requiring dedicated Fibre Channel infrastructure.

Built with an intelligent iSCSI-to-SAS bridging architecture, the IP Tape Library enables up to four servers to access up to four SAS tape drives over IP, presenting them as native iSCSI targets. This allows efficient backups, restores, and data migrations—even across long distances—using your existing Ethernet network. Multiple bridge modules can be stacked to scale with your growing data protection needs.



ETHERNET CONNECTIVITY

Connect the tape library through standard IP networks for simplified deployment and flexible integration.



NO FIBRE CHANNEL REQUIRED

Eliminate the need for FC HBAs, SAN switches, and dedicated Fibre Channel cabling.



VMWARE FRIENDLY

Enable tape connectivity directly within virtualized environments without complex FC pass-through requirements.



LOWER TOTAL COST

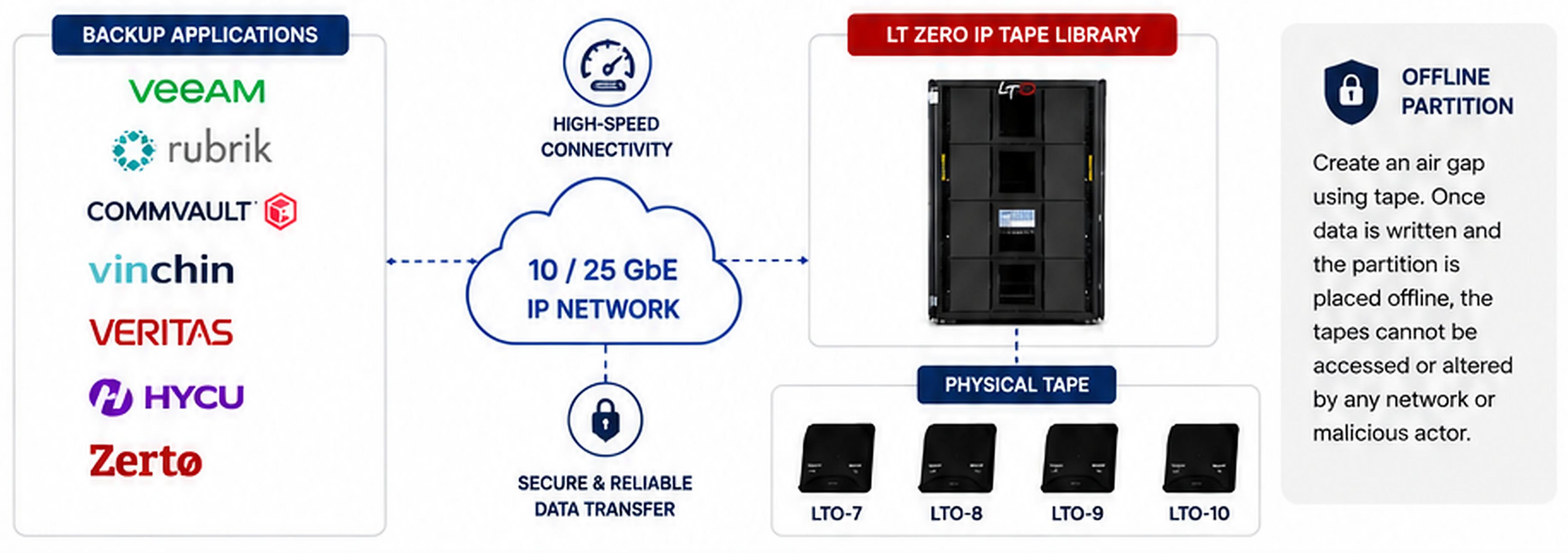
Leverage existing network infrastructure to reduce hardware, deployment, and operational costs.



ENTERPRISE DATA PROTECTION

Deliver secure, reliable, and immutable data protection with physical tape and Offline Partition capabilities.

IP TAPE LIBRARY ARCHITECTURE



OFFLINE PARTITION WORKFLOW



IP-BASED CONNECTIVITY
Works over standard 10/25 GbE networks.

SCALABLE ARCHITECTURE
Stack multiple bridge modules to grow as your data grows.

SECURE & RELIABLE
Enterprise-grade reliability with data integrity protection.

SIMPLIFIED MANAGEMENT
Intuitive management via web UI and CLI.

ELIMINATE THE TAPE SERVER

Simpler Architecture. Lower Cost. Easier to Manage.

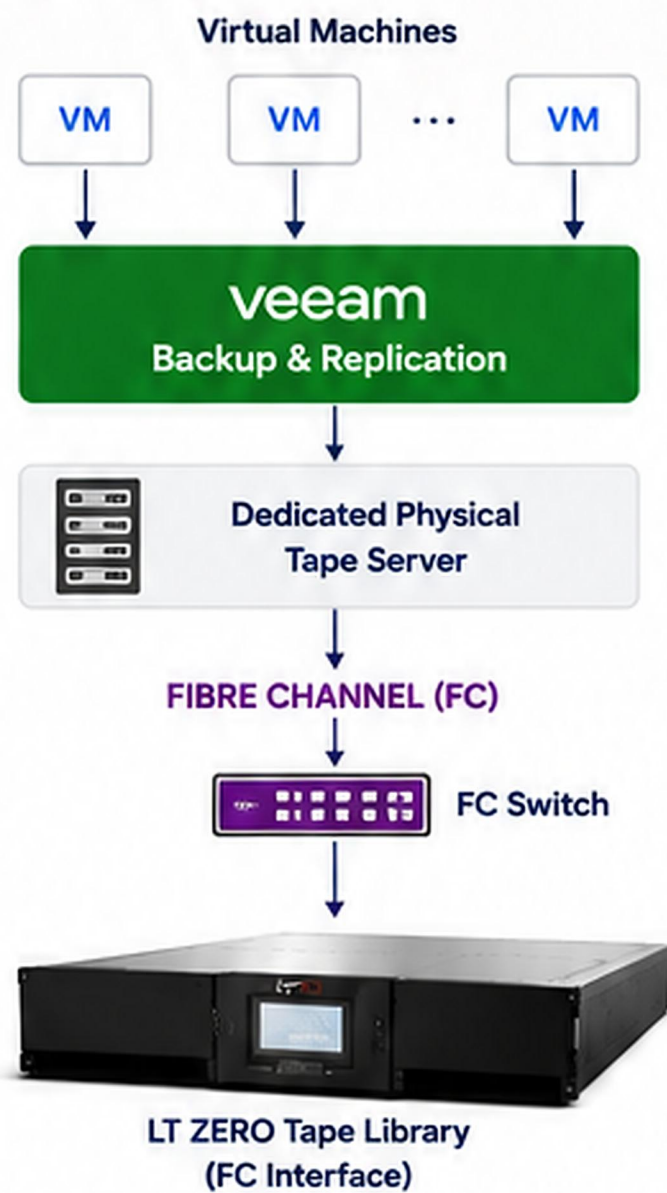
LT ZERO IP Tape Library eliminates the need for a dedicated physical tape server and Fibre Channel infrastructure. Run the Veeam Tape Server inside your existing VBR VM and connect directly to the tape library over IP.

BEFORE

Traditional FC Tape Architecture

- ✗ Dedicated Physical Tape Server
- ✗ Fibre Channel infrastructure
- ✗ FC HBA & SAN Switch Required
- ✗ Additional Hardware Cost
- ✗ More Power & Rack Space
- ✗ More Components to Manage

ARCHITECTURE



HIGHER TOTAL COST OF OWNERSHIP

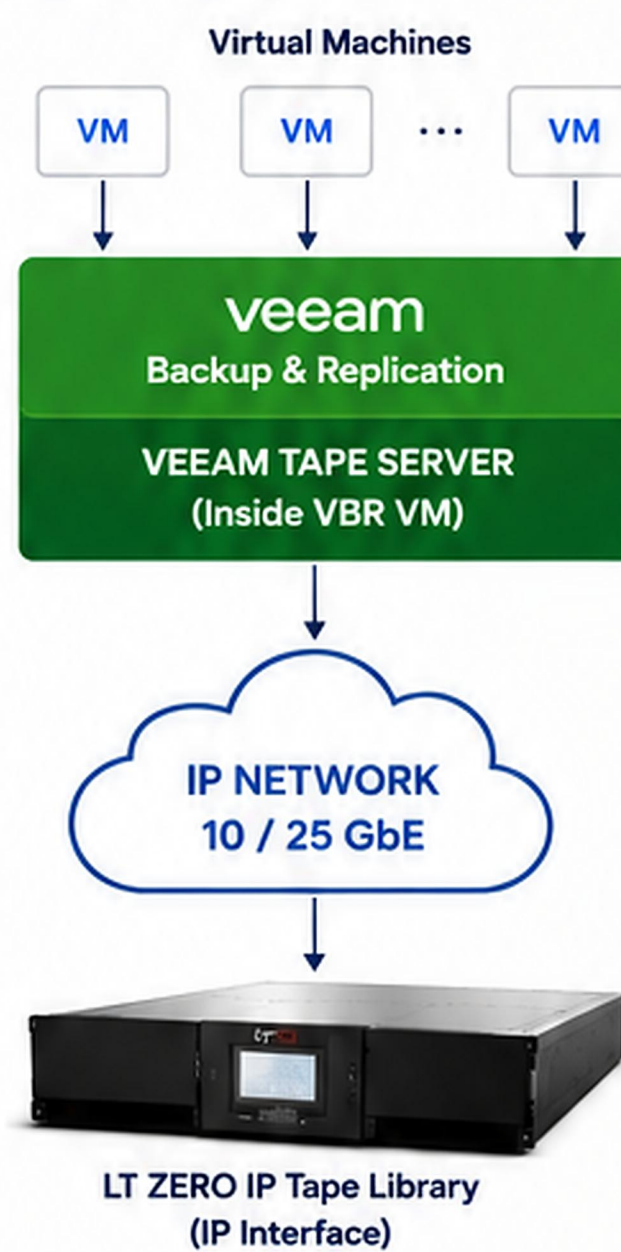
Additional server, Fibre Channel infrastructure, power, rack space, and management overhead.

AFTER

LT ZERO IP Tape Architecture

- ✓ No Dedicated Tape Server Hardware
- ✓ Tape Server Runs Inside Existing VBR VM
- ✓ Direct IP Connectivity
- ✓ No FC Infrastructure Required
- ✓ Simplified Deployment & Management
- ✓ Less Power & Rack Space

ARCHITECTURE



TAPE SERVER INSIDE VEEAM VM

Eliminate the dedicated physical tape server and Fibre Channel infrastructure. Everything required for tape operations runs inside your existing Veeam environment. Simple, efficient, and cost-effective.

KEY BENEFITS OF LT ZERO IP TAPE ARCHITECTURE



LOWER CAPEX

No additional tape server or Fibre Channel infrastructure required.



SIMPLIFIED ARCHITECTURE

Fewer components, simpler topology, and easier management.



FASTER DEPLOYMENT

Deploy quickly using your existing IP infrastructure (10/25 GbE).



SCALABLE & FLEXIBLE

Easily scale with additional bridges, tape libraries, and virtual machines.



RELIABLE. SECURE. FUTURE READY.

IP-based tape backup for modern data protection and long-term archive. Designed for today's IT environments and tomorrow's data challenges.



Secure IP Connectivity



Air-Gapped Protection



Long-Term Retention



TAPE WITHOUT THE COMPLEXITY

SOLUTION BRIEF

Built for Modern Backup, Archive, and Long-Term Data Protection

LT ZERO IP Tape Library delivers enterprise tape storage over standard IP networks, eliminating traditional Fibre Channel complexity while keeping the reliability, security, and affordability of tape.



VIRTUAL ENVIRONMENTS

Direct tape connectivity for VMware environments without complex FC pass-through.



BRANCH & REMOTE SITES

Deploy tape protection using existing Ethernet infrastructure.



MODERN DATA CENTERS

Integrate tape into IP-based environments without building a dedicated SAN.



COST-OPTIMIZED ARCHIVE

Combine the economics of tape with the simplicity of IP connectivity.

BACKUP APPLICATIONS & PLATFORMS

veeam rubrik COMMVAULT vinchin
VERITAS HYCU Zerto



IP NETWORK
10 / 25 GbE

LT ZERO IP TAPE LIBRARY



LONG-TERM RETENTION



LTO-7



LTO-8



LTO-9



LTO-10



No Dedicated FC Infrastructure. No Physical Tape Server Required.
Just Simple, Secure, and Scalable Tape over IP.

WHY LT ZERO IP TAPE LIBRARY?



HIGH PERFORMANCE

Leverage high-speed IP connectivity (10/25 GbE) for efficient backups, restores, and data migrations—even across long distances.



COST EFFECTIVE

Reduce total cost of ownership by eliminating Fibre Channel infrastructure and leveraging existing Ethernet networks.



RELIABLE & SECURE

Enterprise-grade data protection with offline partition (air-gap) capabilities, drive-level encryption, and immutability for long-term retention.



FLEXIBLE & SCALABLE

Easily scale by stacking bridge modules and tape libraries. Supports local, remote, virtual, and hybrid deployments.



SIMPLE MANAGEMENT

Intuitive web UI and CLI for mapping tape drives, managing offline partitions, and monitoring library health.

IDEAL FOR A WIDE RANGE OF USE CASES



EDGE DATA COLLECTION

Securely back up data from distributed edge locations.



REMOTE LOCATION

Protect data at branch offices with simple IP connectivity.



ETHERNET ONLY DC

Integrate tape into Ethernet-only data centers seamlessly.



VIRTUAL ENVIRONMENTS

Perfect for VMware and virtualized backup environments.



HPC

Archive large datasets efficiently for high performance computing.



M&E

Store and archive media content securely for long-term retention.



DATA PROTECTION & COMPLIANCE

Meet compliance requirements and protect against ransomware.



FINANCE

Ensure secure, immutable data retention for critical financial records.



AIR-GAPPED & IMMUTABLE
Create offline partitions to keep tapes isolated and immutable.



RANSOMWARE RESILIENT
Offline tape is unreachable by attackers.



COMPLIANCE READY
Meets retention policies and regulatory needs.



LOWER RISK
Reduces risk of data loss and accidental deletion.



For more information, please visit www.ltzero.id