



Product Brief

VTL-X

Scalable High-Performance Virtual Tape Library

Create complete virtual tape library solutions for your customers – cost effectively

The VTL-X Virtual Tape Library is a scalable OEM/VAR solution you can use to meet your customers' needs for high-performance data protection and storage management. Instead of spending years developing a VTL solution for your customers, use VTL-X Virtual Tape Library software to get your solution to market in record time — and deliver it under your own brand for a wide range of niche markets. VTL-X eliminates the typical integration headaches.

With the VTL-X data-protection solution, you can deliver powerful backup and restore functionality to your customers cost effectively, using commodity, off-the-shelf hardware. With VTL-X's ultra-high performance, your customers get the scalability and flexibility they need, at speeds up to 10 times faster than traditional tape-based systems.

The VTL-X family supports both Fibre Channel and iSCSI interfaces, as well as any disk technology for virtual tape cartridge storage. You can use BSI's ultra-high-performance tape drive emulation technology and the latest high-speed SATA RAID disk storage to deliver a powerful data-protection product with groundbreaking price/performance.

Real Business Benefits

- **Reliability** - Ensures backup/restore success by eliminating media/ mechanical errors and manual intervention
- **Availability** - Remote offsite replication of virtual tapes provides disaster protection
- **Consolidation** - Centralizes management & consolidates backup resources

- **Speed** -
 - Rapid data recovery
 - Support for multiple concurrent sessions
 - Disk-to-disk is faster than traditional tape backup
- **Archiving** - Data export to tape for archiving purposes
- **Fast Deployment** -
 - Integrates seamlessly with existing backup software or policy
 - Easy to deploy — comparable to adding a new tape drive or library to your environment

Xtreme Performance

- Accelerates backup application performance by emulating virtual tape media on a high-performance disk or RAID
- Delivers aggregated backup speeds up to 380 MB/s per FC port; 95 MB/s per iSCSI port
- Near wire-speed performance with 2+ drives per storage network port
- Supports multiple storage networking interfaces

Extreme Reliability

- Media emulation can choose appropriate level of data protection for the virtual tape volumes (VTV): RAID level, remote replication
- Reliability of disk is inherently greater for short-term retention of backup data
- Wide range of qualified high-availability hardware platforms are supported with hot-swappable components and redundant cooling and power from IBM, Dell, Supermicro and other hardware vendors
- Eliminate aborted backup runs due to tape device faults and media flaws

- Eliminate read retries to recover data from faulty media

Xtreme Extensibility

- Concurrent replication to physical tape volume
- Offline replication to physical tape volume
- Offline replication to secondary (remote) storage
- Virtual tape volume event-triggered custom post-processing “plug-ins”
- OEM/VAR-specific plug-ins for niche markets
- OEM/VAR branding

Xtreme Emulation

Available VTL-X configurations offer emulation of popular tape drives covering the SMB through the enterprise markets:

- Single or multiple tape libraries emulated in a single hardware platform
- Supports multiple heterogeneous drive types in a single library configuration
- Extensive tape drive command emulation, not just Inquiry string mock-up
- Full emulation of plug-and-play device discovery

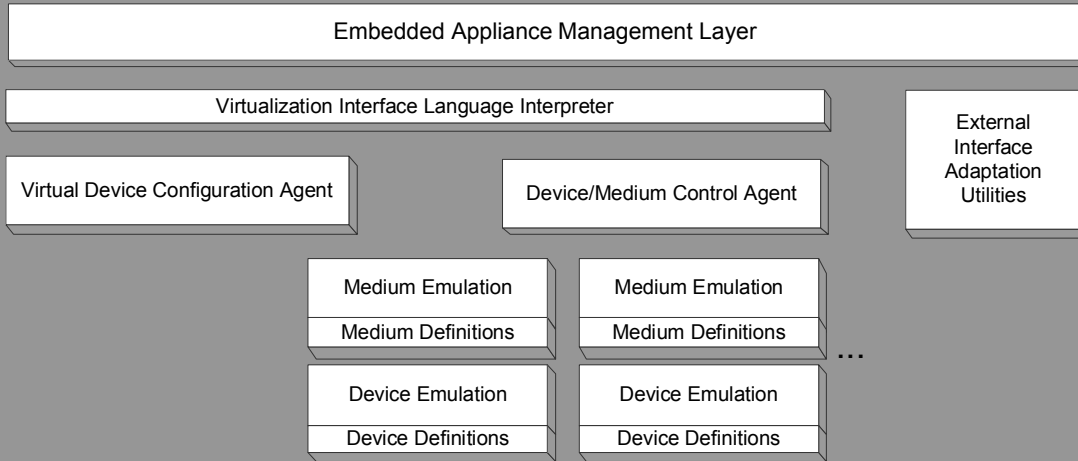
Xtreme Scalability

- VTL-X configurations available from single tape drive with autoloader through enterprise level with multiple tape drives
- Virtual tape volumes use one or more RAID or other disk subsystems
- Software runs on “off-the-shelf” rack-mount or blade server hardware platforms
- Adaptable to OEM custom HW platform for high-volume products
- Maximum performance configurations scale linearly with actual hardware configuration up to large enterprise-class systems
- Fixed and dynamic configurations of tape drives and library systems are supported
- Virtual tape drives can be added or removed dynamically to/from library on demand
- Compatible with major backup and HSM applications and devices

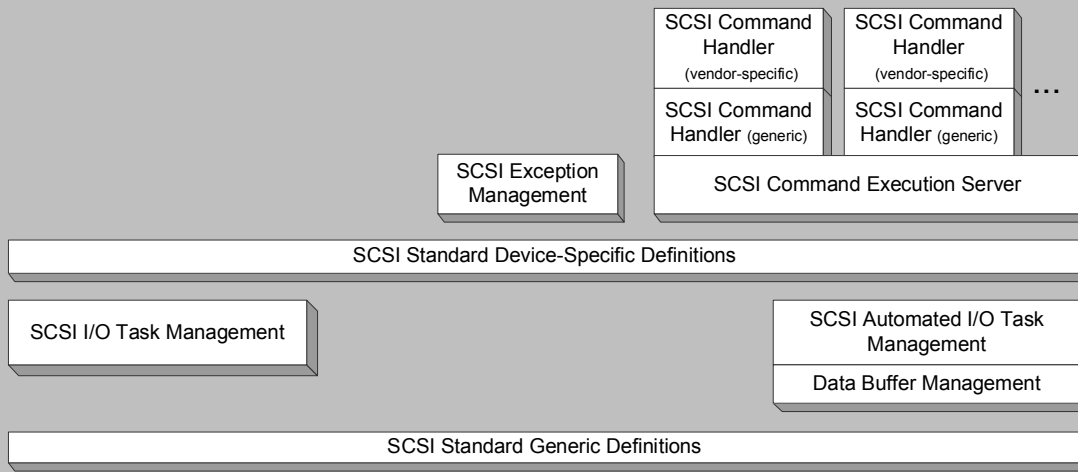
Supported Emulations	
<u>Tape Drives</u>	
Generic IBM	LTO1 LTO2 LTO3
Quantum	LTO1 LTO2 LTO3 DLT SDLT
HP	LTO1 LTO2 LTO3 DAT
<u>Library Systems</u>	
Generic ADIC	Scalar 100 Scalar 1000
STK Exabyte	L Series 440 480
Quantum	P Series
<u>Back Up Apps.</u>	
BakBone Veritas	NetVault™ NetBackup™ Backup Exec™,
<u>Storage Networking Interfaces</u>	
Qlogic	Fibre Channel 1GB Fibre Channel 2GB Fibre Channel 4GB iSCSI 1GB Multiple port FC iSCSI interface configs

Firmware Foundry Meta Code Tiers

Tier 3
products
Storage
Appliances



Tier 2
products
Storage
Devices



Tier 1
products
Target
Mode
Drivers

