



NEW Version 2.04

# BACKBOX

## NEW for BACKBOX

- New high-speed in-line data compression for improved storage efficiency
- Native FC interfaces for high throughput
- Up to 20% throughput improvement from new asynchronous processing
- New visibility into virtual tape storage utilization
- New Home Page visibility into tape operations and status
- Still the only data de-duplication implementation available for NonStop

BackBox® is part of ETI-NET's family of virtual tape-based products for NonStop systems. While BackBox can be used as a stand-alone virtual tape system with self-contained disk storage, its real strength is in integration with other storage and storage management systems. BackBox can:

- Store virtual tapes on internal disk or SAN-attached storage;
- Utilize state-of-the-art "data de-duplication" for 20X or more reduction in disk capacity required;
- Store virtual tapes on NFS or CIFS file servers;
- Pass through virtual tapes to TSM or Legato NetWorker servers via their native APIs;
- Stage virtual tapes to other ESMs, such as HP Data Protector or NetBackup, via scripted transfers.

## NonStop System Integration

BackBox attaches to NonStop S-series systems via SCSI and NS Integrity systems via Fibre Channel. It transparently emulates multiple native tape devices and is managed by SCF and Mediacom, like physical drives. Virtual tape volumes are managed using Guardian media manager software such as DSM/TC or TMFCOM, and tapes are automatically cataloged when created. BackBox also automatically mounts the virtual volumes requested by tape applications and provides scratch tape storage management.

## Fault-tolerance and Linear Expandability

BackBox embodies the NonStop principles of fault-tolerance and linear expandability. Unlike competing virtual tape products for NonStop, BackBox's management software, catalogs and metadata are resident on the NonStop system, enabling protection via TMF.

The external platform for BackBox, the Virtual Tape Controller (VTC), is context free so that failures do not endanger storage or retrievability of backups held on virtual tapes. And adding VTCs can linearly increase backup throughput.

## Enterprise Storage Manager Integration

Why use an enterprise storage manager (ESM) with a virtual tape subsystem? Where archiving or vaulting is required, the basic mechanisms included in competing virtual tape subsystems cannot compare with those of an ESM. ESMs embody sophisticated mechanisms for:

- Disk Pools with capacity thresholds
- Policy-based tape retentions
- Scriptable disk to tape pool migration
- System-managed space reclamation
- Physical tape management
- Tape library control for many vendors and models

Where organizations have standardized on an ESM across their systems, BackBox permits NonStop systems to participate in the backup consolidation.

## Disaster Recovery

Finally, physical tape for DR can be eliminated! BackBox supports:

- Virtual tape replication via WAN
- Selective replication, by Data Store configuration
- Reduction of up to 10x in WAN bandwidth required, using Data Domain Restorers
- DSM/TC & TMF catalog re-creation at DR site
- "Passive" BackBox Domains for DR

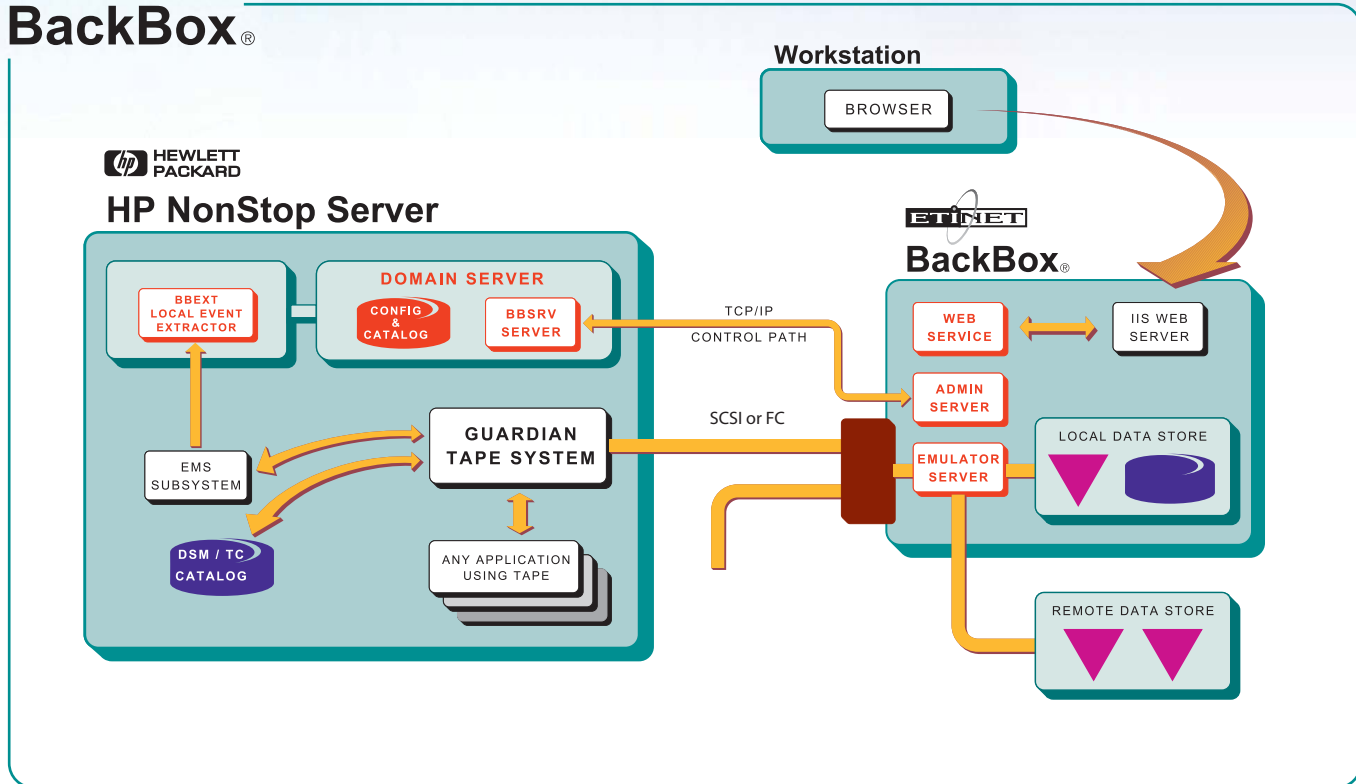
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## BackBox®



### Security

BackBox can take advantage of the encryption capabilities of ESMs, or can integrate with hardware and software corporate encryption solutions. BackBox's user interface can be accessed from any location via a web browser, optionally with SSL encryption, and is secured by use of a Guardian login.

### Performance

A BackBox VTC can handle simultaneous tape I/O streams for multiple devices on multiple SCSI busses or Fibre Channel ports. Provided that disk storage is provisioned appropriately, a single VTC is capable of sustained throughput of over 140 MB/sec.

Perhaps most importantly, multiple VTCs can be used independently to linearly increase BackBox throughput. For instance, backup via a 6 VTC configuration has been benchmarked at over 2.75 TB per hour!

And in multiple VTC configurations, failure of a VTC can be accommodated by automatic re-routing of backups via the remaining VTCs.

### BACKBOX Advantages

- Backs up growing amounts of data within shrinking time windows
- Configurations of multiple VTCs can handle massive database backups
- Brings the performance and cost advantages of the latest storage technologies to NSK backup
- The only data deduplication solution for NonStop
- Enables NonStop systems to share the services of enterprise backup servers
- Enables DR without physical tape use
- Frees up storage administrator time for more critical tasks
- The most reliable virtual tape solution for NonStop
- The most cost-effective virtual tape solution for NonStop