BackPak® Software Suite

Open Options for NonStop Tape

Andrew Hall



Infrastructure Objectives

- Consolidation (Green Data Center)
- Centralization of Operations Staff
- Client / Server Storage Management
 - Tivoli TSM, NetBackup, NetWorker
- VMware, Private & Public Clouds
 - "Adaptive Infrastructure"
- Data Deduplication / Encryption



ETI-NET Product Family

- BackHome[®]
- BackBox[®]
- BackPak[®]

Software and hardware to integrate NonStop with prevailing data center infrastructure objectives



BackHome®

- Network-based Backup/Restore
- SNA → TCP/IP
- Disk-to-Disk Performance
- IBM Target / Mainframe Tape
- First Customer UBF 1989
- Latest deployment June 2009



BackHome/TSM®

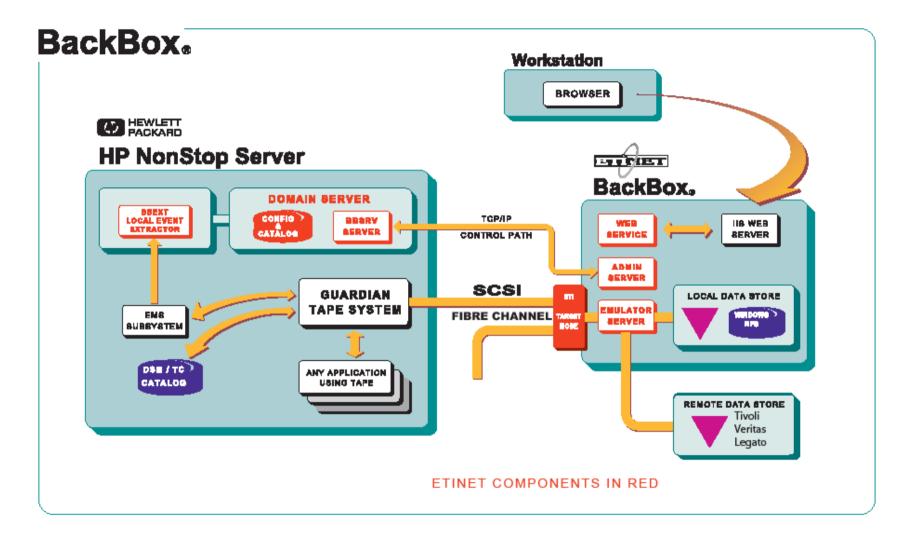
- Client / Server Backup/Restore
- Tivoli Storage Manager API in NonStop
- Policy Managed Object Lifecycles
- Centrally Managed Vaulting
- First Customer 1995
- Worldwide Customers



BackBox®

- NonStop-based Management Software
 - Configuration
 - Integrated Interfaces (DSM/TC, Mediacom, Zsvr)
 - Script Management
- Fibre or SCSI channel I/O
- Context-free "VTC" controllers
- Open storage / open storage management
- First Customer 2004
- Only De-dup solution for NonStop
- Happy Worldwide Customers
 - Component of flagship HP projects
 - Widely adopted in managed data centers





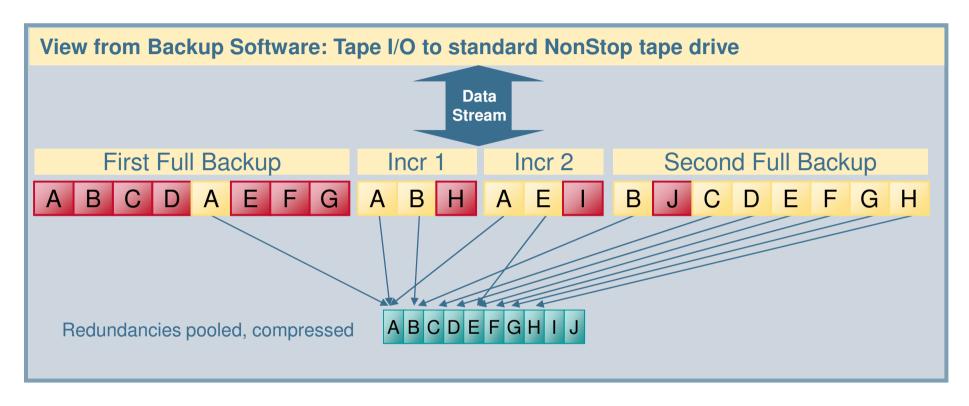


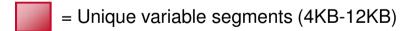
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 - Popular in Australia



Deduplication: Under the Hood



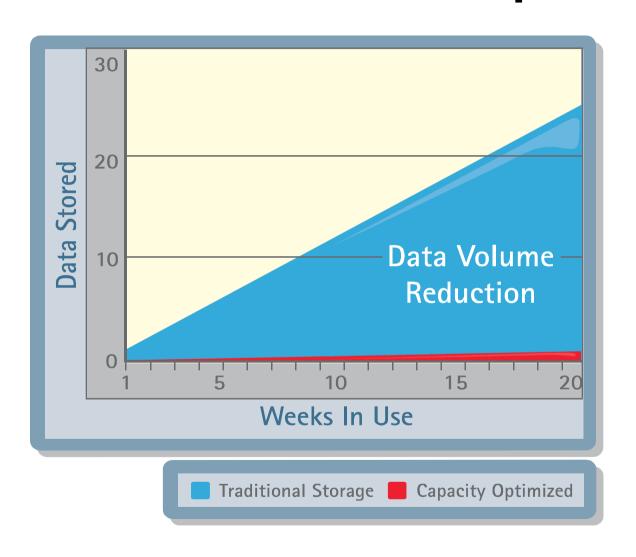


= Redundant data segments

= Compressed unique segments



Data Reduction Impact Over Time



Reduction Factor

•3-4x
First full backup

•6-7x File-level incrementals

•50-60x
Subsequent full backups

•30x
Aggregate weekly
fulls, daily
incrementals



Legacy Tape Server

Fibre-Channel BackBox VTC with currently supported, media compatible SCSI tape drives

- On demand import of physical tapes
- No need to migrate vaulted inventory
 - NS access to S-series tape archives



New Product: BackPak®

"BackBox without the Box (our box)"





BackPak®

"Common Standards / Uncommon Advantages"



BackPak®

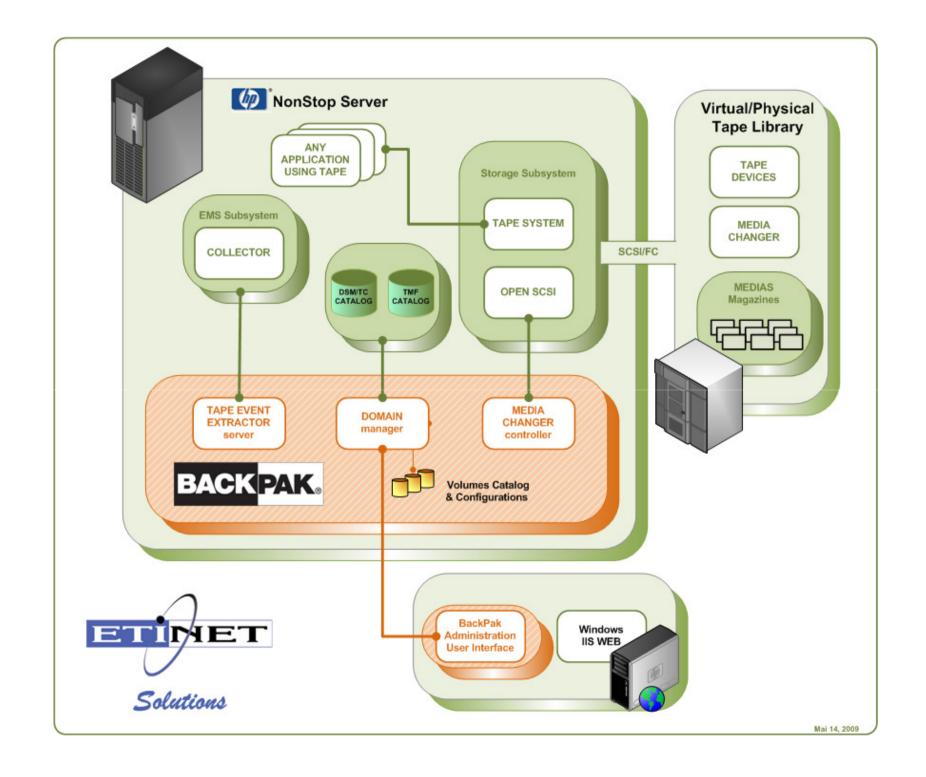
- NonStop-based Management Software
 - Configuration
 - Operations Interfaces (DSM/TC, Mediacom, zsvr)
 - Migration Managers (pre-fetch, import/export, etc)
- Fibre or SCSI channel I/O
- Industry leading VTL libraries
 - HP StorageWorks VLS 6600
 - IBM ProtecTierTS7650
 - FalconStor
 - Quantum DXi / EMC EDL / Sun STK
- Deduplication / Encryption / Physical Tape vaulting
- Released @ HPTF June 2009



BackPak®

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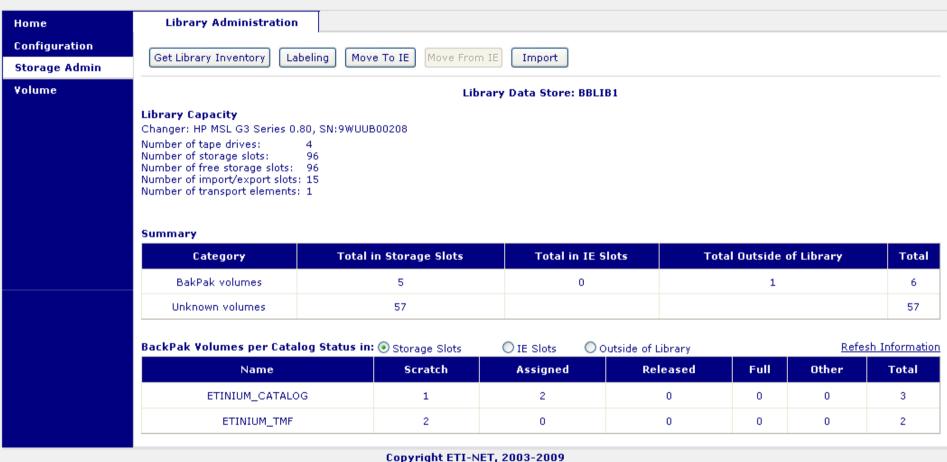






Administration

User: super.oper Domain: BPAK Sign out



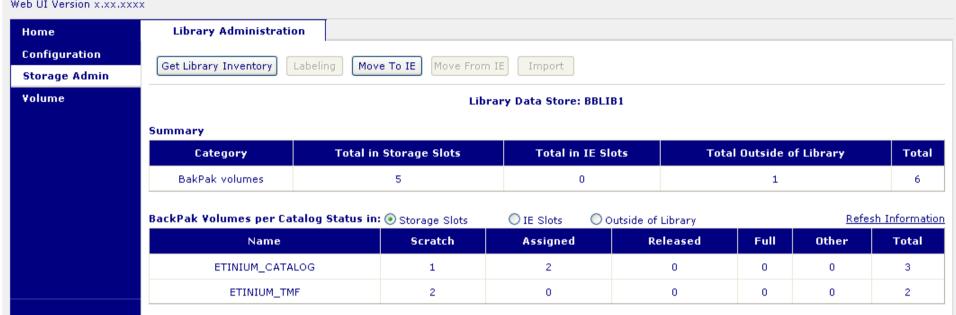




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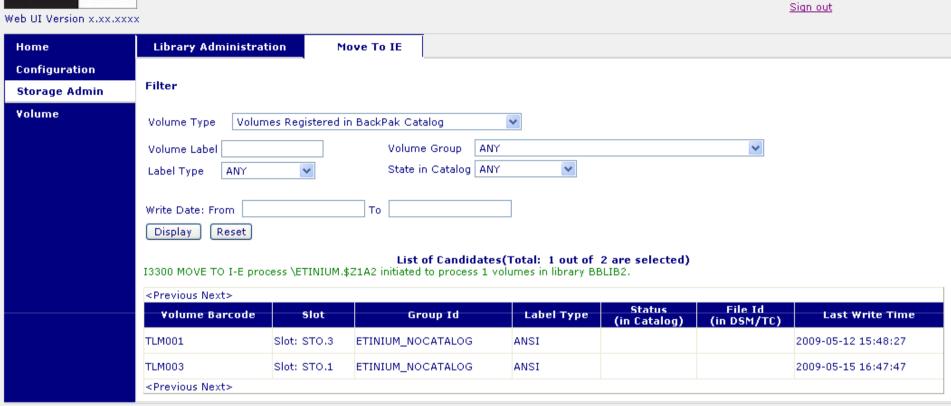
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Administration

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Hot Infrastructure Topics

- VMware
- Clouds
- iSCSI



Questions?

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Thank You

