



Data Sheet

Disk versus Tape

Tape-based backup systems, based on decades old technology, can't compete with modern disk-based backup systems.

Disk-based systems offer superior performance in terms of:

- Availability
- Scalability
- Reliability
- Security
- Manageability
- Performance
- Cost Savings

Review the comparisons and learn the various ways that moving to disk-based backup and data protection solutions can be the smart move for your company.

VAULT400 SaaS, self-managed/ hosted appliance or even onsite software solutions can help meet your backup goals. Here at United Computer Group, we help mid-range and enterprise businesses meet their backup and recovery objectives from 10GB to 100+TB.

- > 24x7 access from anywhere
- > Optimized disk space utilization with DeltaPro/dedupe technology
- > Eliminate human intervention and multiple points of failure
- > Always encrypted, you are the sole owner of the key
- > Manage a diverse, distributed network from on console
- > Instant point and click file and folders recovery
- > No offsite storage (storage & admin fees, handling, transport, fuel)

Learn more about how disk-based backup can improve your operations and reduce costs. Let us provide you a complimentary analysis. Please contact us at 1-800-211-8798 or email us at info@vault400.com www.vault400.com | www.ucgrp.com

Availability

Disk

- **24x7 access from anywhere**

- **Retentions maintained online and easily accessible**

- **Point and Click recovery of files and folders**

Tape

- **Must obtain accesses to physical tape to retrieve data**

- **Multiple retentions require multiple tapes**

- **Manual navigation through one or more tapes to find file/folder**

Scalability

Disk

- **Optimized disk space utilization with DeltaPro/dedupe technology**

- **Multiple retentions are scheduled once, automated, easily managed**

- **No need for differential/incremental backups**

Tape

- **Higher storage requirements for tapes**

- **Multiple retentions require multiple tapes**

- **Differential/incremental backups mean multiple tapes to recover**

Reliability

Disk

- Automated error checking, predictable monitoring
- RAID 5+ redundancy and storage replication
- Eliminate human intervention and multiple points of failure

Tape

- Known failure rate of up to 70%; tapes can go bad with no warning
- No built-in redundancy, subject to physical vulnerabilities
- Complex collection of devices, components, media, people

Security

Disk

- Controlled environment-centralized automated, high security, top tier data centers
- Always encrypted, you are the sole owner of the key

Tape

- Uncontrolled environment-tapes subject to human intervention
- Unencrypted data, anyone can view data on tape

Manageability

Disk

Tape

- Automated, ‘set it and forget it’

- Manual, time intensive

- Manage a diverse, distribution network from one console

- Multiple mechanisms to manage in multiple locations

- Easy verification of backup status

- Time consuming, ‘verify after write’ process

- Data offsite according to your schedule – no human interventions

- Data offsite next day or weekly – with human intervention

Performance

Disk

Tape

- DeltaPro captures block level changes estimated at 2% daily change – 3x backup speed

- File level backups estimated 25% daily change

- 10x recovery speed

- 10x as long to recover, not including time spent waiting for tape

- Instant point and click file and folders recovery

- Tapes must be delivered searched before data recovery

Costs

Disk

- Disk Hardware



- Software maintenance, license fees



Tape

- Hardware

- Tape Media

- Maintenance and license fees

- Offsite Storage (storage & admin fees, handling, transport, fuel)

- Operational management

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