Storage

DISK RFP WORKSHOP

Hosted by STORAGE OSearchStora

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Storage Decisions

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General RFP Rules

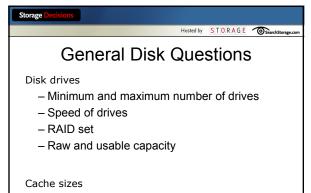
Give vendors time to respond.

- 2 weeks for small RFP
- 1 month for large RFP

Ask specific questions.

- General questions get general answers.

Request customer references.



- Minimum and maximum cache sizes

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General Disk Questions, II

Operating systems support

Connectivity – Fibre Channel, FICON, SCSI, ESCON

Number of LUNs and volumes supported

Emulation modes

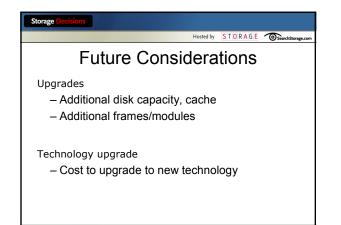
- 3390 models

Storage Decisions Hosted by STORAGE Storage General Disk Questions, III Environmental requirements

- Electrical

- Air Conditioning
- Dimensions
- Weight

Training





Bandwidth is not a true indicator of response time.

Response time will vary by

- Application
- Cache sizes
- Cache algorithms
- RAID level
- Disk type

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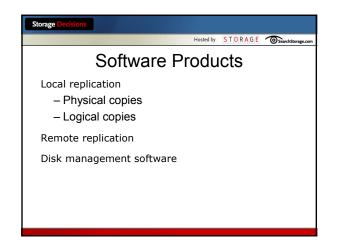
Comparing Disk Performance Vendor benchmarks measure different

- Block sizes
 - I/O rates
 - Cache hits

Storage Performance Council (SPC) is

only universal benchmark available.

- www.storageperformance.org
- Read the fine print!
- Configurations can vary.



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Replication Products

Local replication products not all the same

Physical copies (clones)

- Entire volume copied

- Requires twice the capacity

Logical copies

- Create a new image without copying data.

- Copy on first write.

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Questions About Physical Copies

Time to establish clone

Maximum number of clones per volume

Maximum number of clones per storage subsystem

Time and technique to synchronize volumes

Can restore from clone?

Ease of configuration of clones

Software to manage clones

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Questions About Logical Copies

Maximum number of copies per volume

Maximum number of copies per storage subsystem

Require pre-allocation of save area?

Can restore from logical copy?

Ease of configuration of copies

Software to manage copies

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Questions About Remote Replication

Synchronous and asynchronous mode supported?

Requirements of remote subsystem

- Same type and model?

Maximum number of replicated volumes

Time to establish remote volume

Time and technique to re-establish volumes

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Questions About Remote Replication, II

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Maximum number of volumes that can be replicated

Number and type of links supported – FICON, Fibre Channel, GigE

Support for more than 2 datacenters

Replicate one volume to two different subsystems

Integration with copying software

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Disk Management Software

Interface with in-house/future products

Ease of installation and use

Additional console required?

Commitment to open standards

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Cost for

- Freight
- Installation

Additional software costs

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- Available tools

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Service and Support

How many service people are local? What is the reputation of the service group? Remote support

Alerts

Debugging/ predictive tools

Reliability of equipment

Spare parts and logistics

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Service and Support, II

Microcode updates

- How frequently
- How lengthy
- Disruptive/non-disruptive

Storage Ducisions Hosted by SIDRAGE @Geerdstorage of QUESTIONS? More details on worksheet Contact information: dmcadam@datamobilitygroup.com

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Thank you.

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Ms. McAdam will be available in the Ask-the-Expert booth in the Exhibit Hall: Monday 5-6 PM