

The following are questions to be asked regarding acquiring **Distributed Storage** for use in open systems environments. Some of the questions need to be filled in for the specific environment where the storage system will be deployed

Environment Questions			
Requirement	Vendor 1	Vendor 2	
Operating Systems on platforms that will be attached: - Intel Windows - Linux - Sun Solaris - HP-UX - IBM AIX - Intel NetWare - HP Tru64 Unix - Other			
Battery back-up of entire storage system Internal battery UPS Hold-up time Ease of installation			
 Customer install or service Raised floor required Self configuring Installation time required Software required on servers Migration utility or service included 			
Power requirement Phase Current Voltage Watts Dual power inputs 			
Floor space required			
Heat generated (BTU's) Redundant cooling			
Warranty period			



Configuration Questions			
Requirement	Vendor 1	Vendor 2	
Host Interfaces (type and number)			
- Fibre channel			
○ 100 MB/s			
○ 200 MB/s			
- UltraSCSI			
- Serial ATA			
Device Interface to controller			
- FC-AL			
- FC-switched			
- ATA - SCSI			
- SCSI Devices			
- Maximum number			
- Capacity and RPM			
- Hot pluggable?			
- Restrictions?			
Storage			
- Maximum RAW capacity			
 RAID levels supported 			
 Dynamic RAID level change 			
Cache			
- Mirrored writes			
- Size (in GB)			
- Separate NVS (size)			
- Configurable write percentage			
- Separate battery backed cache			
Hot Spare disks			
- Number			
- Global hot spares			
- Floating or fixed			



Configuration Questions			
Requirement	Vendor 1	Vendor 2	
Controllers - Number - Active-Active with failover - Interconnect technology			
Service - Remote maintenance - Call-home capability - Non-disruptive code activation			
Re-configurable by customer			
Number of hosts supported			
Number of LUNs supported			
Online LUN Expansion capability			
Boot from LUN OS's supported for boot			
LUN masking capability in storage system? (Name of software required to set)			
Dynamic drive expansion (redistribute data when additional drives added)			
Single points of failure			





Feature / Function Questions			
Requirement	Vendor 1	Vendor 2	
Point-in-time copy (name) Number of copies Copies per volume Copy-on-write (snapshot) Clone copy Server software required (name)? Resynchronization capability Integration with applications Oracle Sybase DB2 Others 			
Remote copy (name) - Connection technology - Synchronous - Asynchronous - Technology used - Host software component (name)? - Consistency groups supported			
Security software (features)			
 Configuration Management Software Name CLI Web-based Integration with management framework APIs to third party management software CIM/SMI enabled (or committed) 			
Host failover software support - Name of software			
Performance analysis software available			



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Performance Questions			
Requirement	Vendor 1	Vendor 2	
SPC Performance Benchmarks - Maximum I/O rates - I/O Rate at 10ms - \$/IOP			
Bandwidth Potential maximum throughput Demonstrated Reads Writes 			