

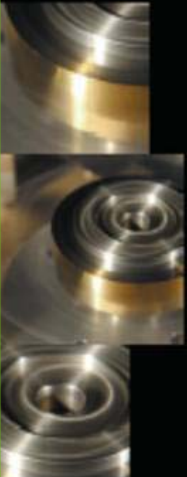
The Holy Grail of Storage

by

Kenneth Samarra

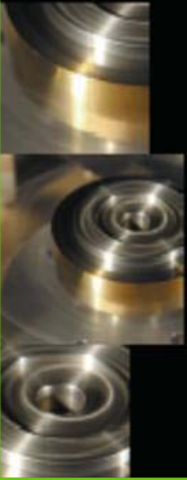


Kenneth Samarra
Chief SAN Architect
LOTS Technology



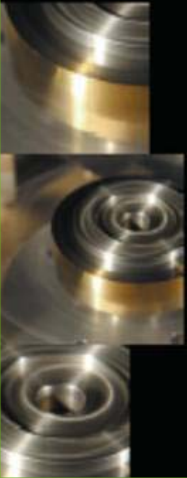


Today's
SAN



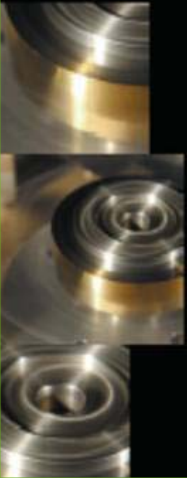
Problems with SANs Today

- Can't share data between different OSs (even with same OS you need clustering)
- Hard to Manage
- Hard to Troubleshoot
- Requires significant manpower for upkeep and general use
- Incompatibilities between different SAN vendors
- ...



Virtualization!

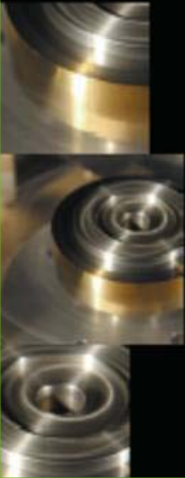
- Does Management for you!
- More logical than physical drives!
- Device Emulation!
- Less configuration!
- One vendor!
- Simplifies administration!
- Saves you time!
- Saves you money!

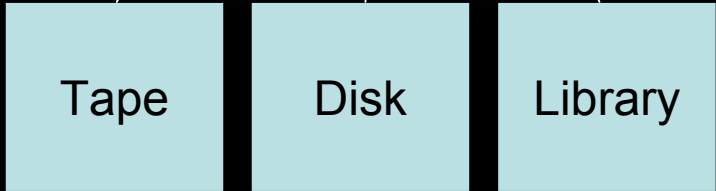


The
Promise

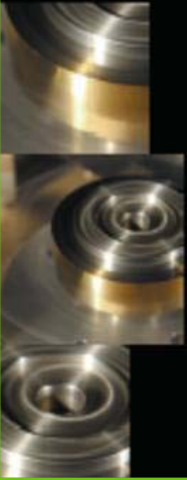


Their solution...





...doesn't work!



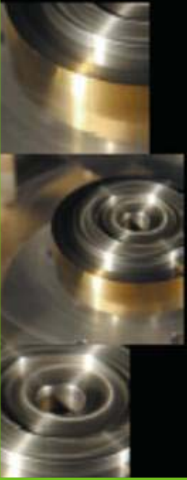
Virtualization!

- ~~Does Management for you!~~ Really?
- ~~More logical than physical drives!~~ Over-Subscription!
- ~~Device Emulation!~~ Doesn't Work!
- ~~Less configuration!~~ You have to configure somewhere?
- ~~One vendor!~~ One Vendor !?!?!
- ~~Simplifies administration!~~ Actually it's harder!
- ~~Saves you time!~~
- ~~Saves you money!~~

why?

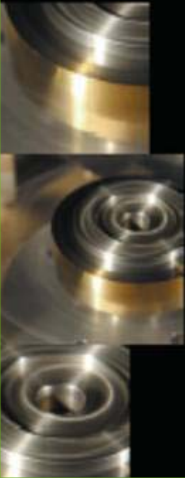


Our solution...





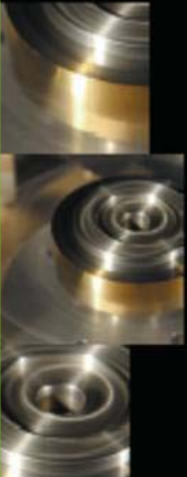
Is the right one.



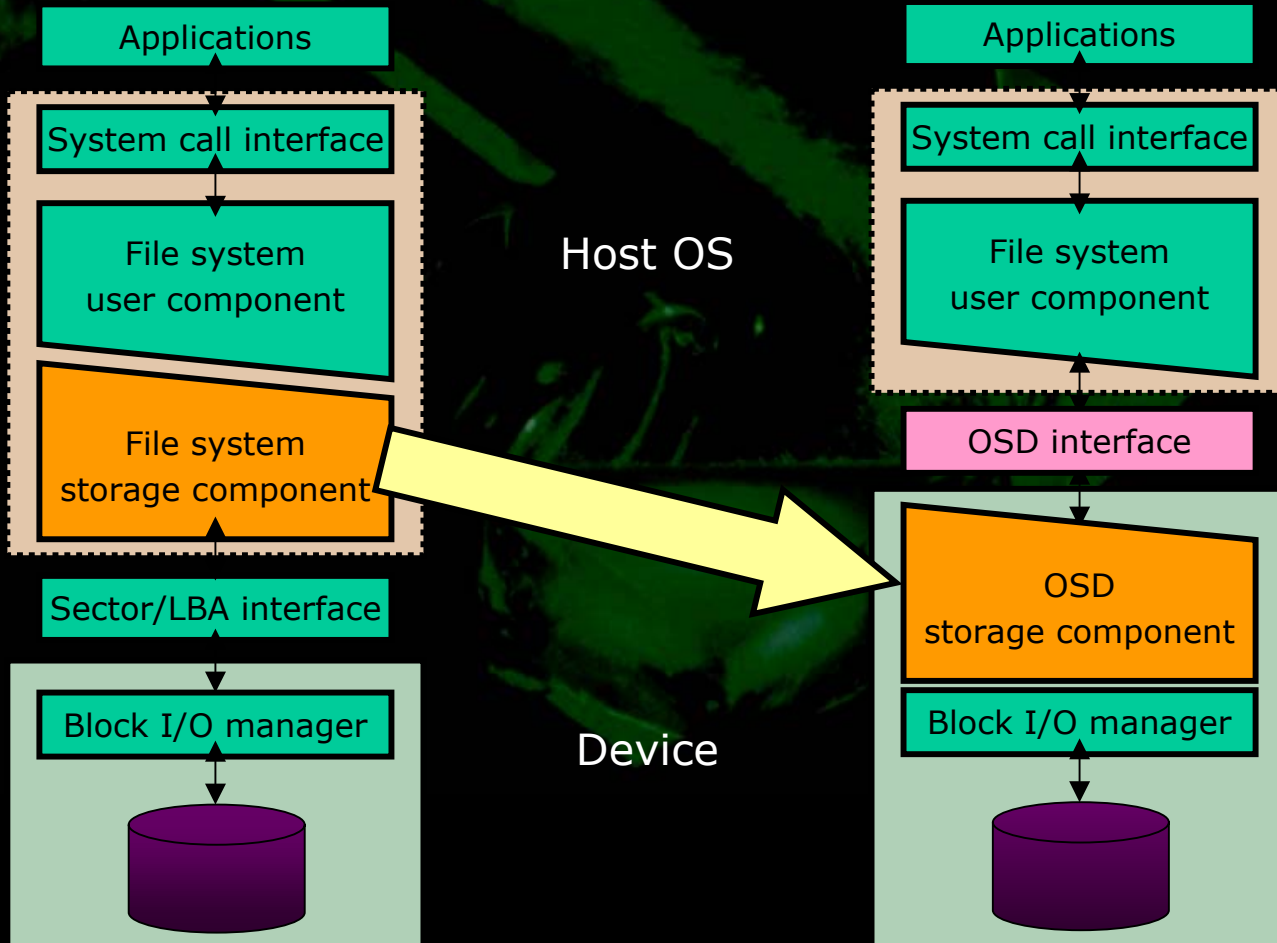
OSD

- True Object-Based Storage
- Intelligent Storage Devices
- Block Level Communication moves out of OS onto Device
- True Heterogeneous Attaches
- Dynamically “growing” RAID
- Serverless Backups
- The Holy Grail of Storage!

Why.

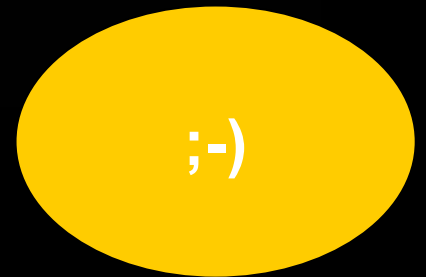
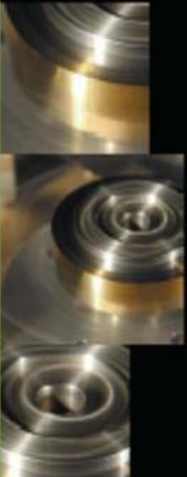


How does OSD work?



Conclusion

- Virtualization **BAD**
- OSD **GOOD**

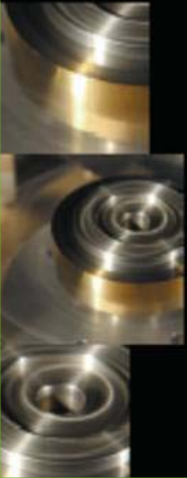




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