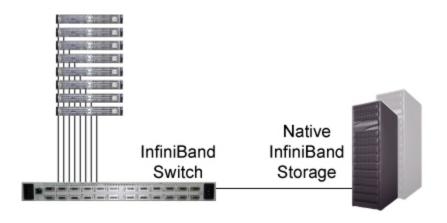
## **InfiniBand Storage Market**

Thad Omura, VP Product Marketing



## The Need for InfiniBand Storage





- InfiniBand server cluster deployment drive the need for Native InfiniBand Storage
  - Performance, Convergence, Scalability, Roadmap
- Block-Level
  - SCSI RDMA Protocol (SRP)
  - iSER (iSCSI Extension over RDMA)
- NAS/File-level
  - NFS over RDMA
- Scalable File Systems
  - Lustre, GPFS, TerraGrid, IBRIX, Panasas, etc.

## Markets Demanding Native IB Storage



#### Data Centers

 Clustered database, data warehousing, shorter backups, convergence, virtualization

#### Financial

- Real-time risk assessment, grid computing and convergence
- Electronic Design Automation (EDA) and Computer Automated Design (CAD)
  - File system I/O is the bottleneck to shorter job run times
- High Performance Computing
  - High throughput I/O to expanding datasets, convergence
- Graphics, Video and Visualization
  - Data file sizes exploding, shorter backups

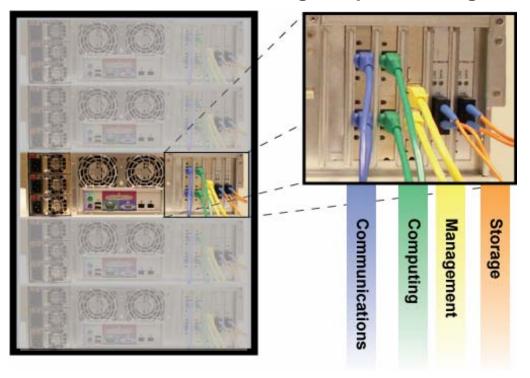
# IB Storage Value Proposition: Convergence

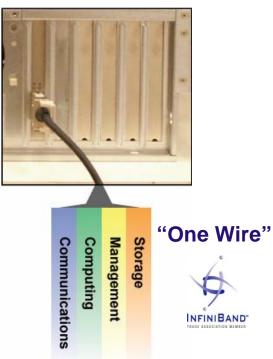


**Cluster of Servers** 

Multiple Fabrics
High CapEx and High TCO

Single InfiniBand Fabric Low CapEx and Optimal TCO



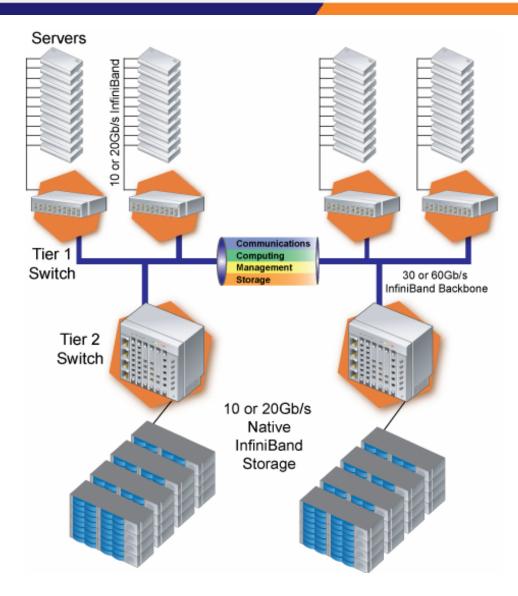


InfiniBand is the only fabric technology that can efficiently and cost-effectively converge the data center

### A Unified InfiniBand Fabric



- Unified IB Fabrics deliver performance boost and cost savings
- No gateway bottlenecks
- Ultimate scalability
- Optimal total cost of ownership
- High bandwidth pipe for capacity provisioning
- Dedicated I/O channels enable convergence



## **InfiniBand Storage Vendors**

















InfiniBand for Storage Clustering and Failover











**Western Scientific** 









