



Deployment Models for Flash in the Enterprise

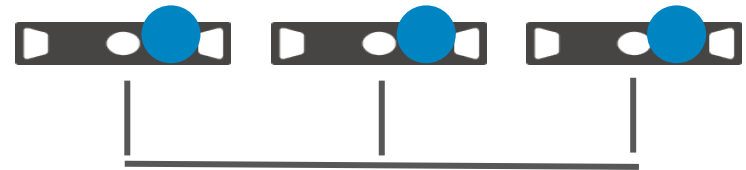
John Shirley
Sr Product Strategist
Dell Storage

Deployment Models

DAS



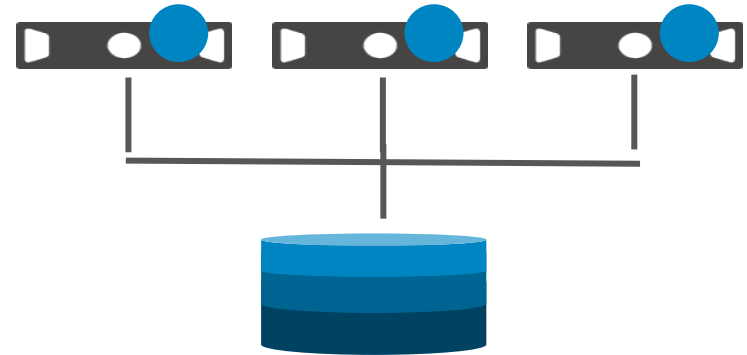
Scale-out



SAN

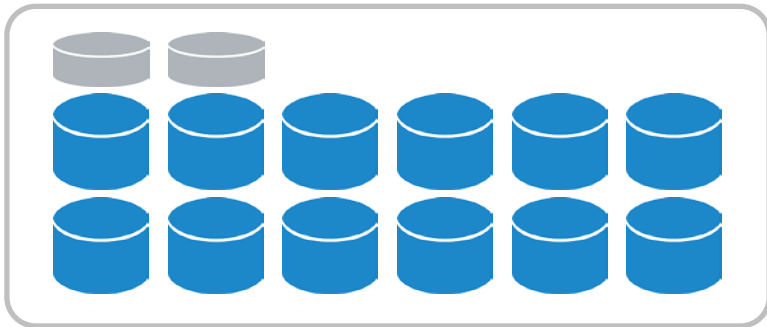


Server cache

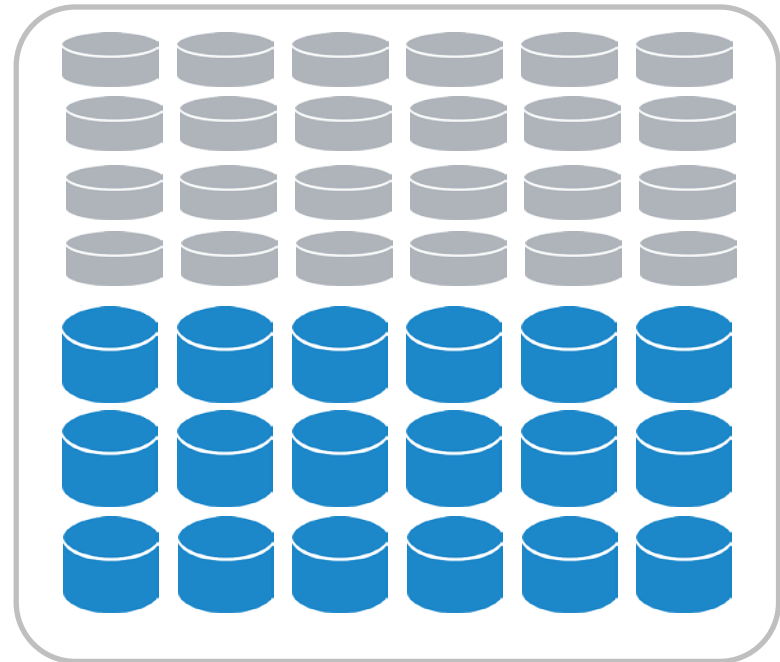


Evolution of Flash deployments in SANs

Flash as a Cache

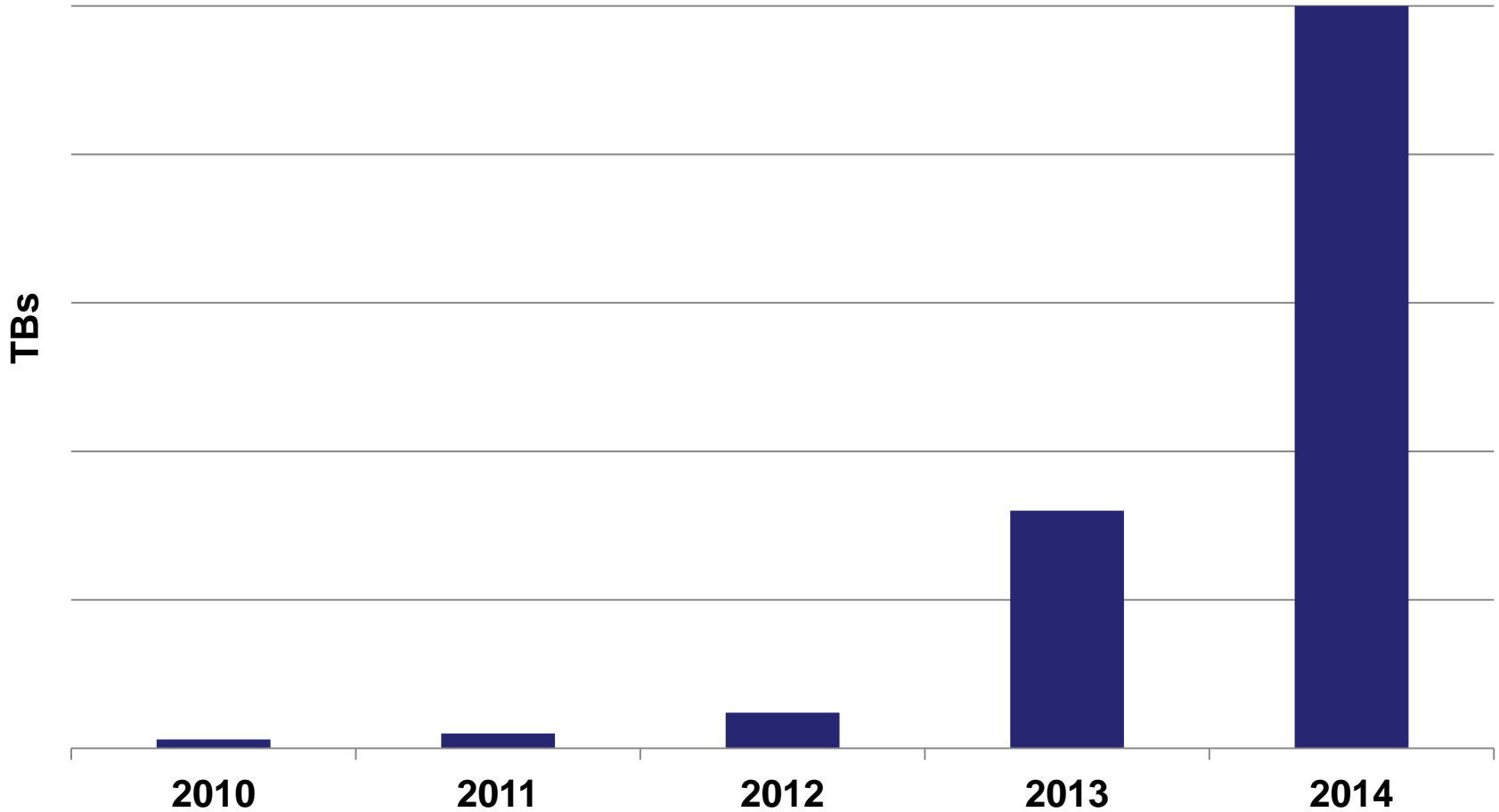


Flash as a Tier

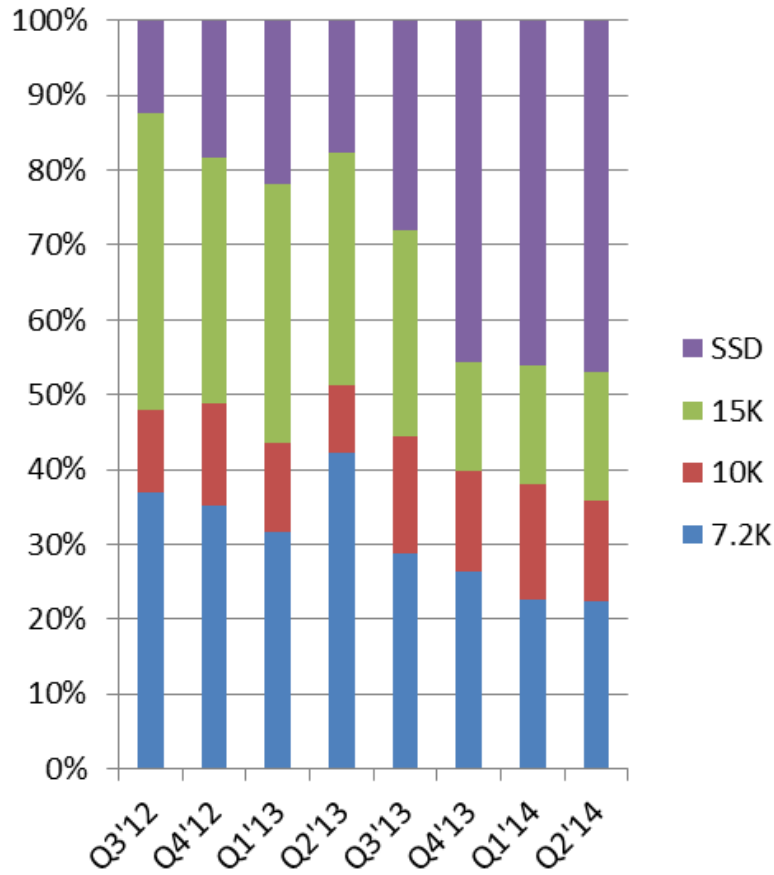


Flash Capacity Growth in SANs

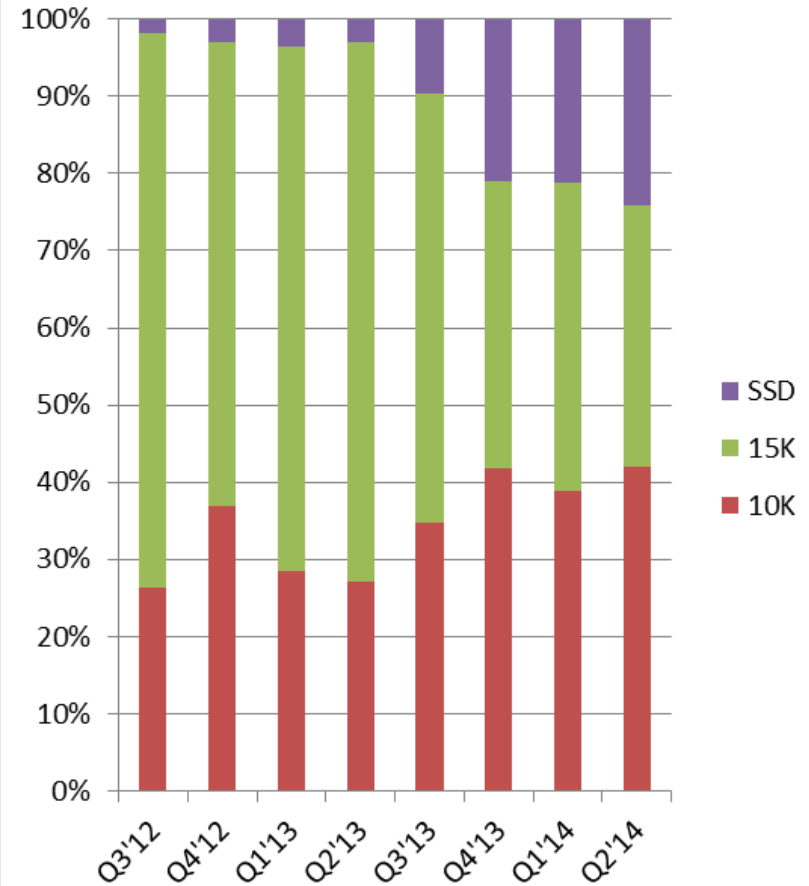
Average Flash Capacity Shipped per Array



Revenue By Drive Type



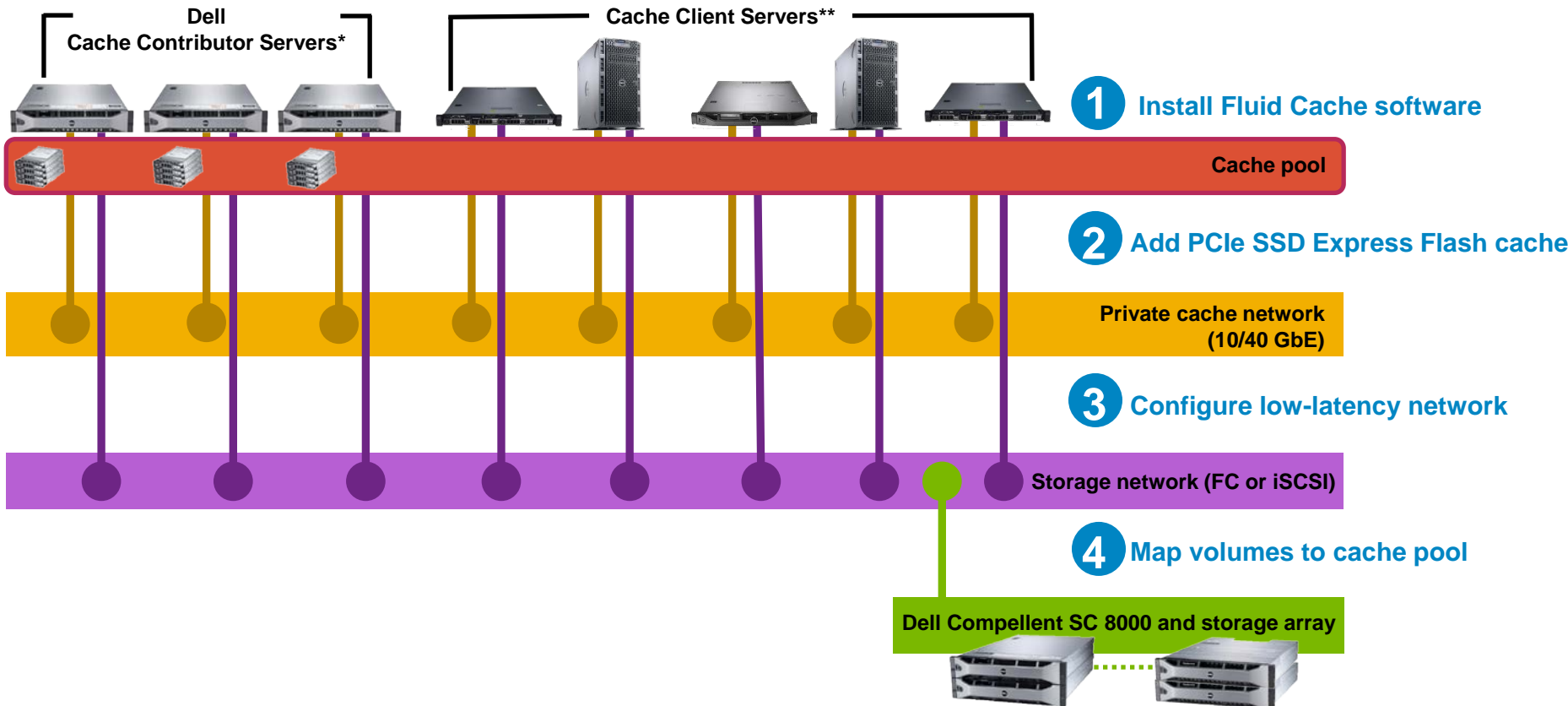
Capacity By Drive Type



Server Side Caching

Bring data closer to compute

Dell Fluid Cache software + Dell Compellent = Accelerated application response



Software-defined storage is an emerging paradigm

- a technology that decouples the basic elements of a storage system

Multiple Implementations

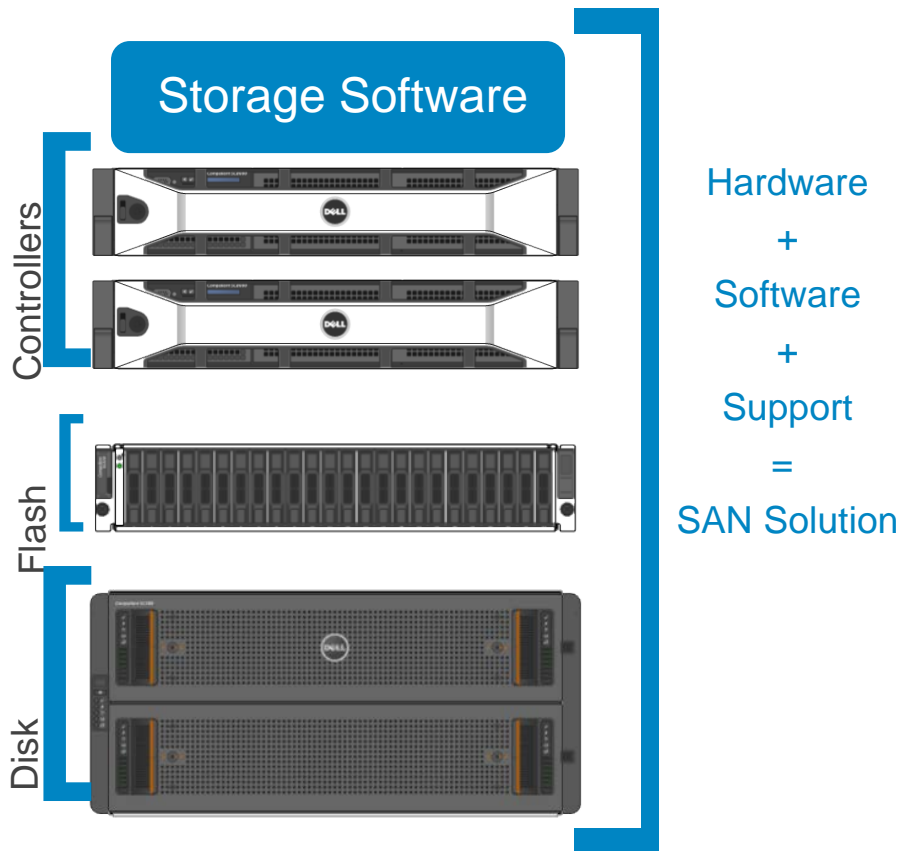
Hyper Converged

Physical Appliance

Software-only

Virtual Appliance

Traditional / Physical



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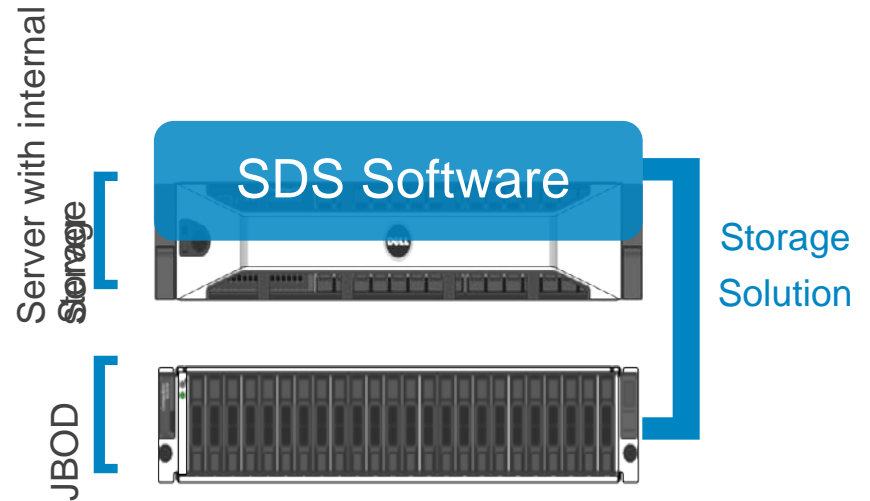
Hyper Converged

Physical Appliance

Software-only

Virtual Appliance

Software-only



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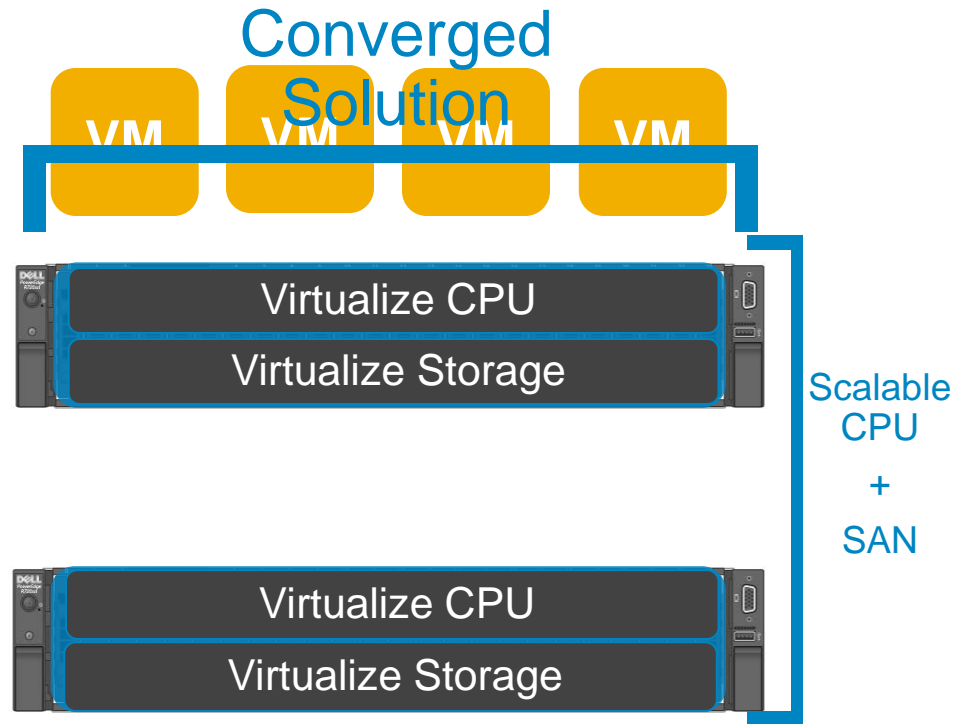
Hyper Converged

Physical Appliance

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Hyper Converged



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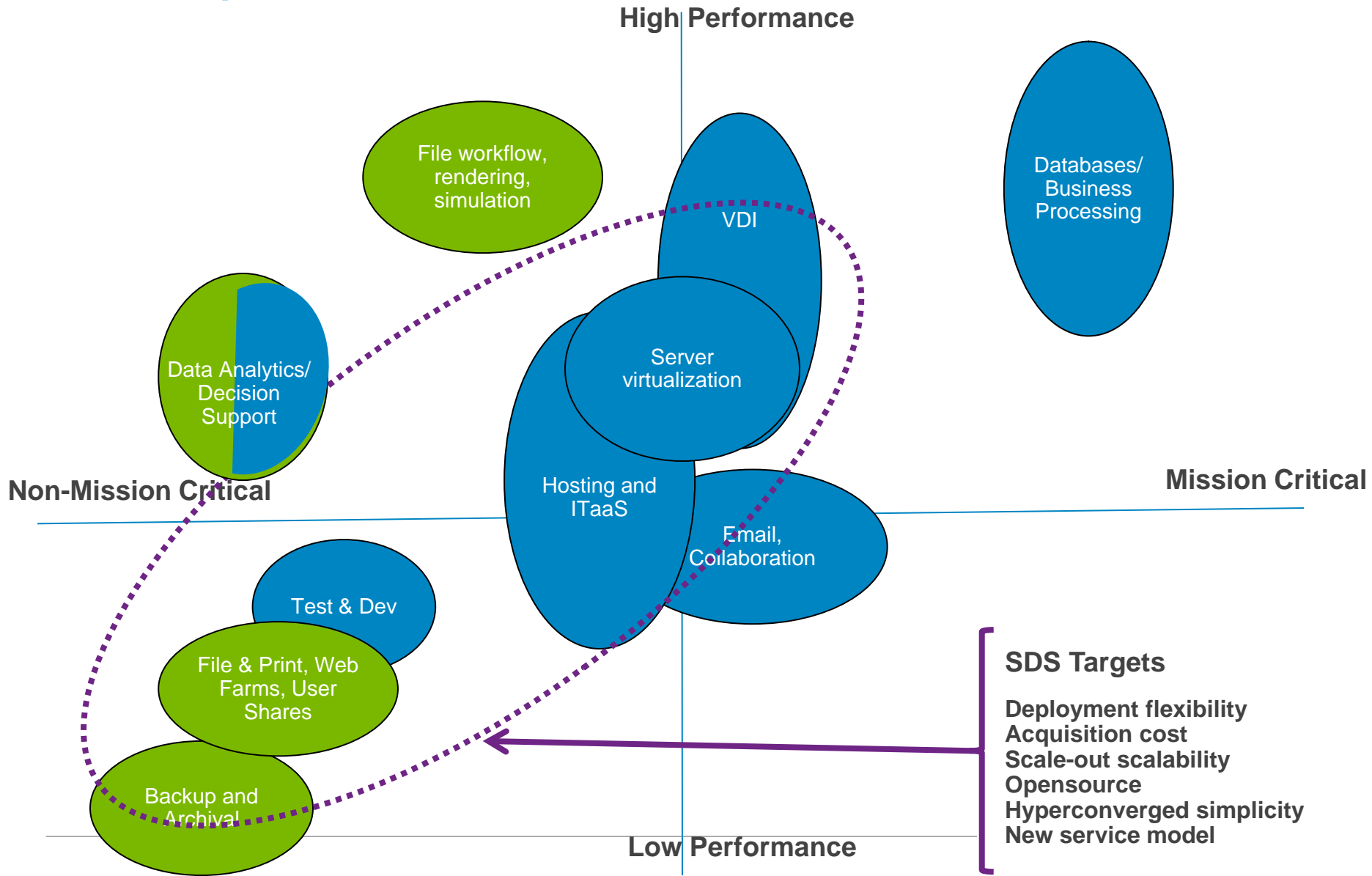
Customer expectations

- Data Services - Management, Automation and Orchestration
- Flexibility
- Cost
- Scalability
- Reliability



Workload-based positioning

Based on workload profile



Interface's in the Future

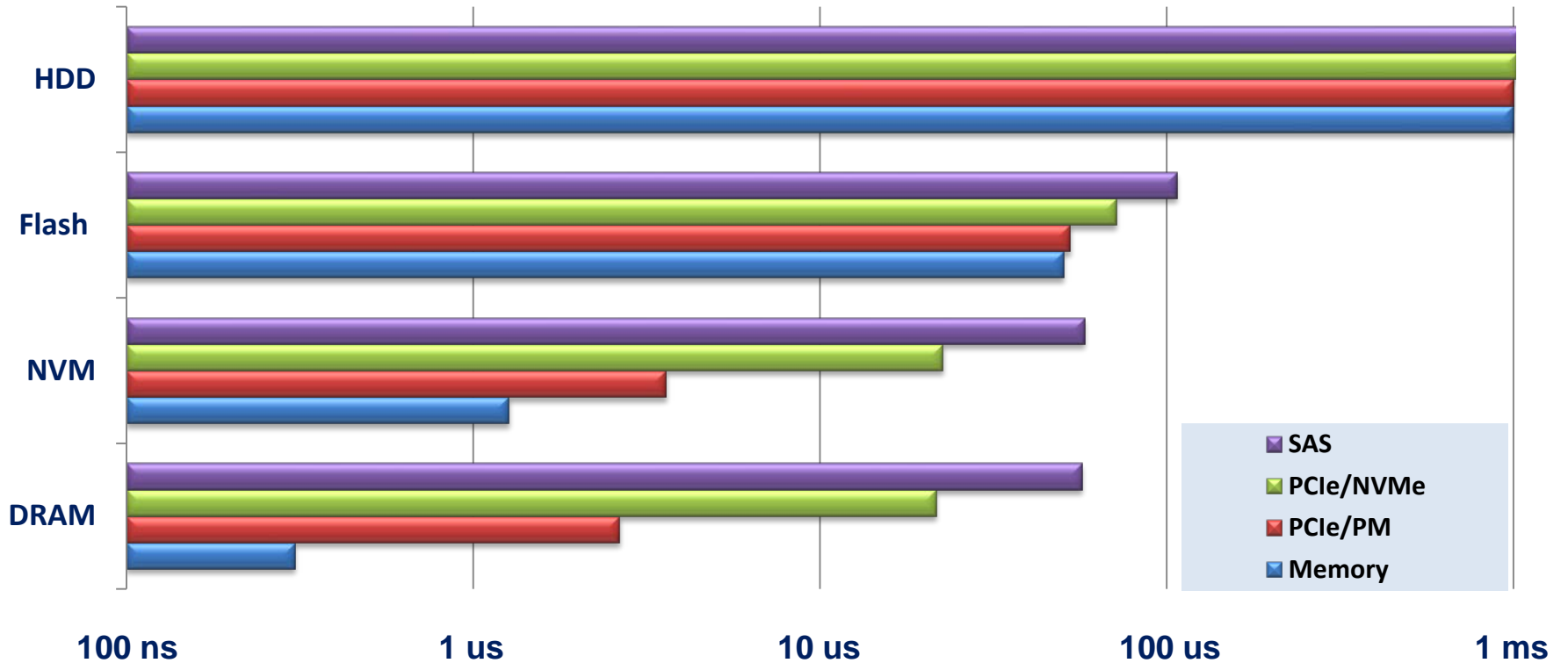
SAN



Server Attach



Interface Latency Compares



Dell now builds on key Data Progression advantages to optimize enterprise storage at all levels

