

Dave Roberson

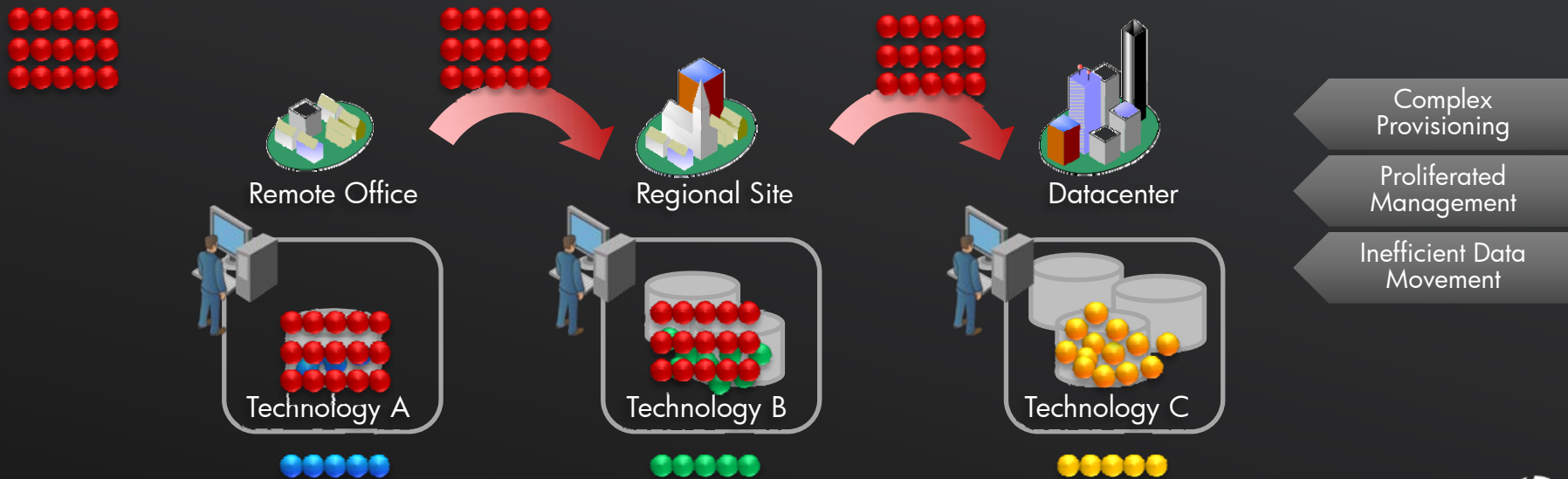
*Senior VP and General Manager
HP StorageWorks*

HP Storage innovations that enable Converged Infrastructure



Other deduplication solutions are fragmented and complex

Data movement between systems requires processing through different deduplication tools



Introducing HP StoreOnce deduplication software

1

Single software design reduces complexity

Store
Once

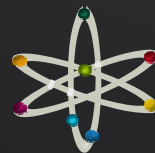
Can deploy end to end from backup to primary scale-out

50:1*

Data reduction rates dramatically reduce storage requirements

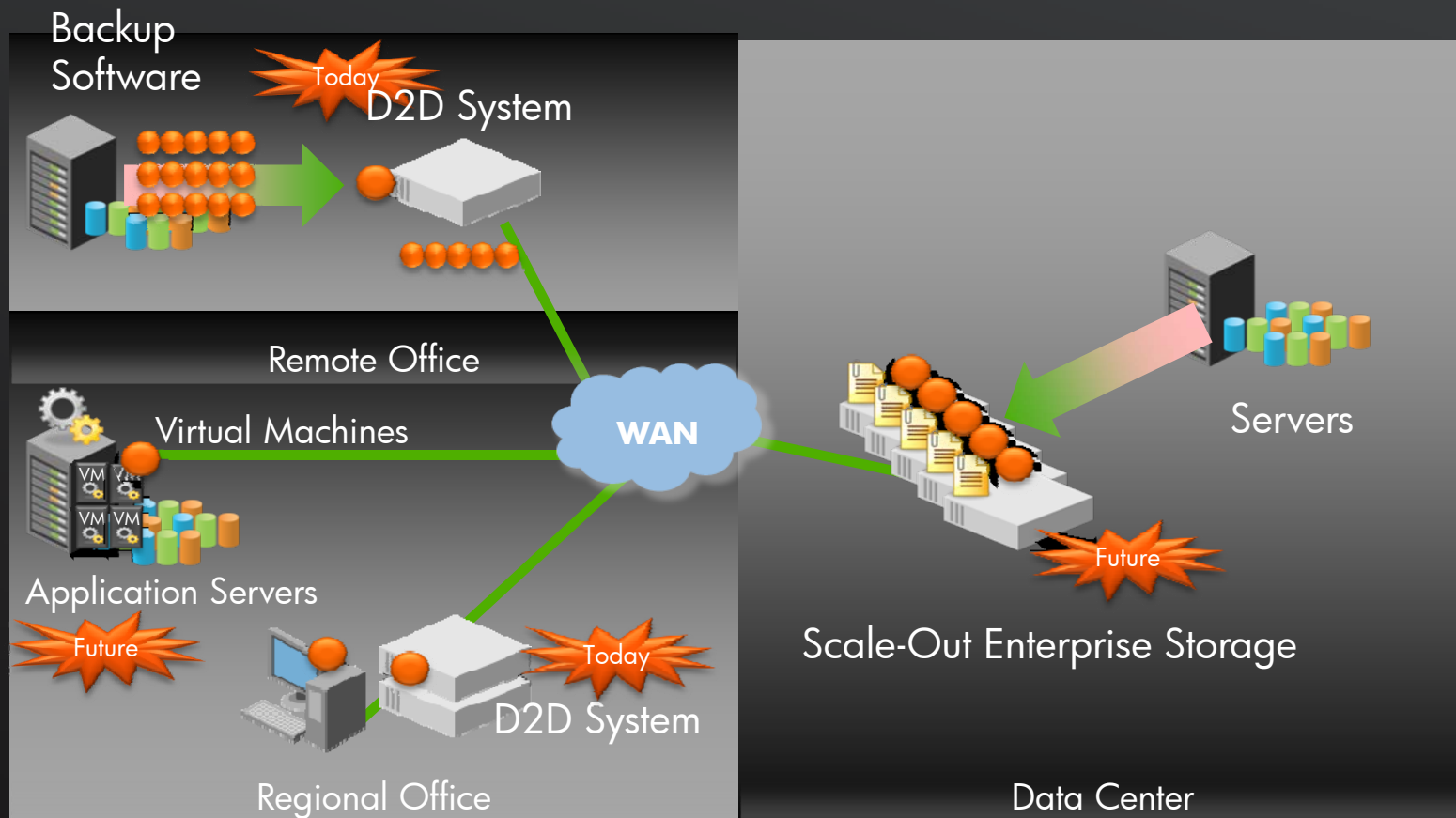


Built for Converged Infrastructure, with HP Labs innovation



The same software solution can be used end to end

HP
Store
Once



HP D2D4312 Backup System

New

Powered by HP StoreOnce software

2X
price/perf

20% faster than competitive solutions

Store
Once

Optimized multiple applications and data types

48TB

Start small and grow to 48TB

Remote
Office

Integrated iLO2 remote management & multisite replication manager





HP Labs Innovation



- Focus on high-impact research on real-world problems – like moving lots of data across slow networks
- Engagement with product teams on synergies between research and product plans
- Collaboration during product development – improves both base technology and product features
- The result – leading edge technology based on IP from HP Labs and product engineering from StorageWorks



Russ Fellows, Sr. Partner, Evaluator Group



D2D4312 Testing – what we did:

▲ Objectives:

- Compare general usability and ease of use
- Validate HP D2D4312 operates as expected for common interfaces, protocols and operating systems

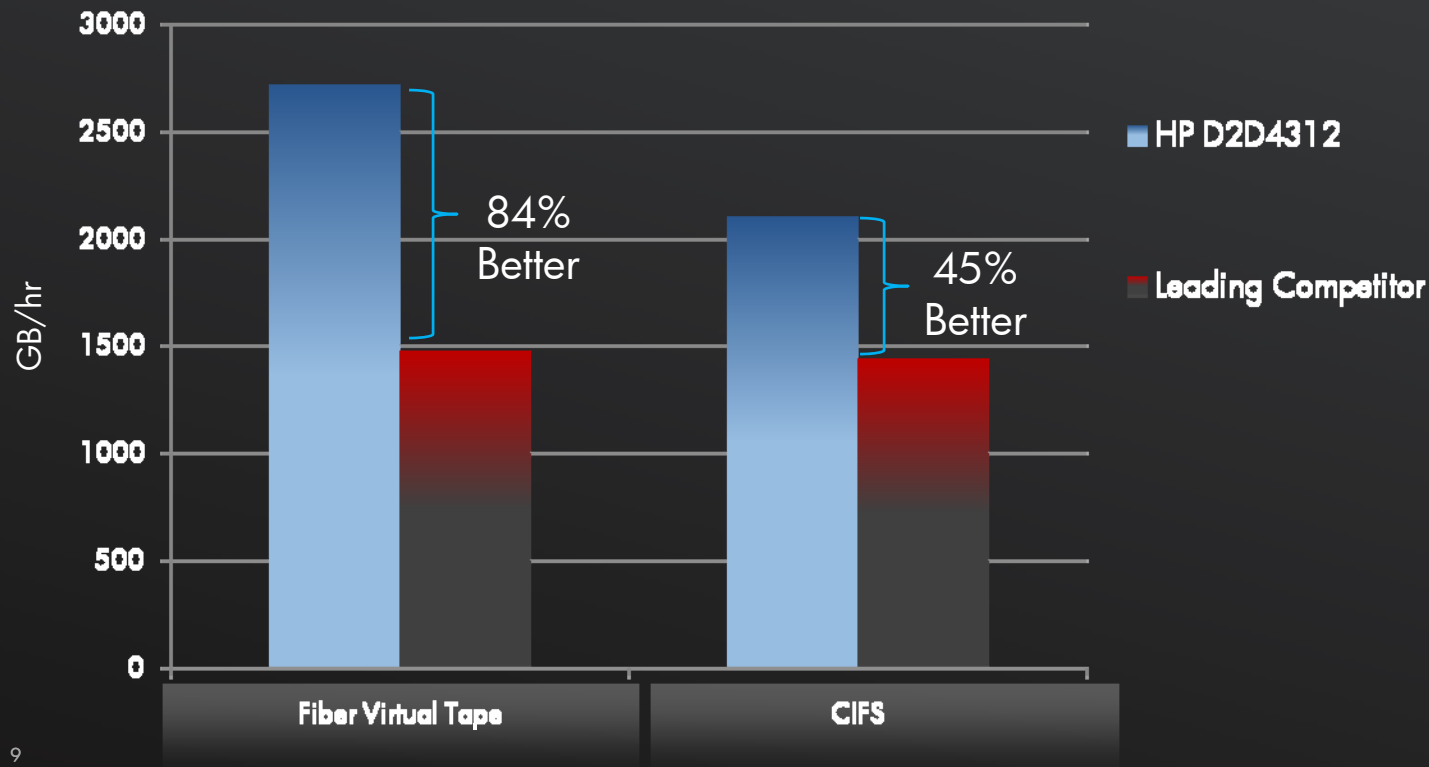
▲ Quantitative Measurements:

- Backup and restore performance using various interfaces
- Deduplication ratios, using synthetic and real-world data sets

▲ Qualitative Tests:

- Number of steps to complete tasks
- Intuitive feel for product and / ease of use

Verified Performance



*"Most likely
would NOT
need to go to
a class to learn
or even refer to
manual"*



HP Storage innovations that enable Converged Infrastructure



Platform Convergence



Storage Optimization



Virtualization



Application Integration



HP P4800 BladeSystem SAN Solution

New

A SAN purpose-built for the HP Client Virtualization solution

Zero

No external switches, no traffic leaves the rack, so no network bottleneck

78%

Less cabling with Virtual Connect

66%

Less IT staff to administer, better security

\$

Converged Infrastructure enables lower TCO than competing SAN solutions



Microsoft

CITRIX

vmware



EVA Cluster - Industry leading simplicity reaches new scale



2PB

Higher scalability and capacity up to ~2PB's and ~2,000 drives

Protect

Transparent failover, Copy and Mirroring services

Simple

Next-generation Command View management for the entire cluster - including non-HP arrays

300%

Increase capacity utilization of existing arrays by up to 300%



Summary

HP is extending leadership of
converged infrastructure trend



- **D2D4312 with HP StoreOnce software**
Single software solution to minimize the impact of explosive data growth
- **HP P4800**
Purpose-built SAN for Virtual Client Infrastructure at <\$750 per seat
- **HP EVA Cluster**
Extends EVA leading ease-of-use features across multiple EVAs and non-HP arrays

Unleashing the potential of the data center of the future

Outcomes that matter.

