



# Transforming Data Protection with HPE: A Unified Backup and Recovery June 16, 2016

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Bob Crews
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# Today's Speakers



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Questions







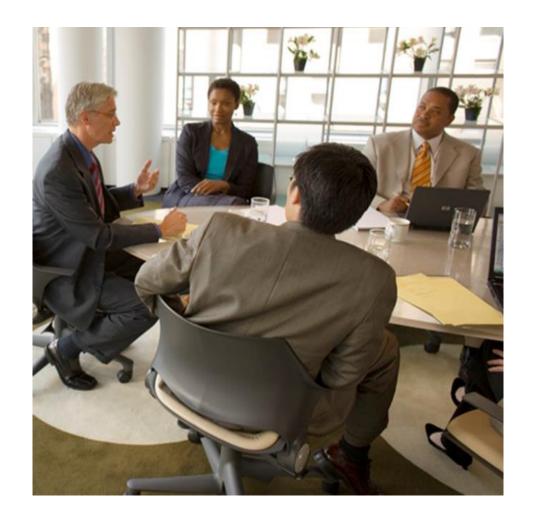


Julita Kussmaul, Sr Product Marketing Manager, HPE Software Mike Whalen, Sales Specialist, Backup, Recovery & Archive

June 16, 2016

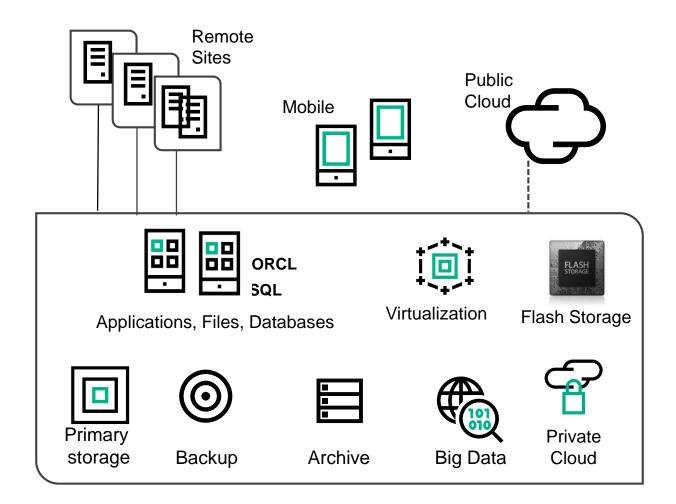
#### **Agenda**

- Today's backup and recovery: key trends and challenges
- Point products vs. integrated solutions
- HPE Data Protector and our single unified architecture
- Unified data protection in action: customer case study
- 5 ways to transform IT environment with Data Protector
- Integration with storage: StoreOnce, 3PAR array, RMC
- Summary and next steps





#### The modern enterprise has evolved...



#### **Dynamic**

Evolving with new applications, data types and business models, emergence of flash

#### **Distributed**

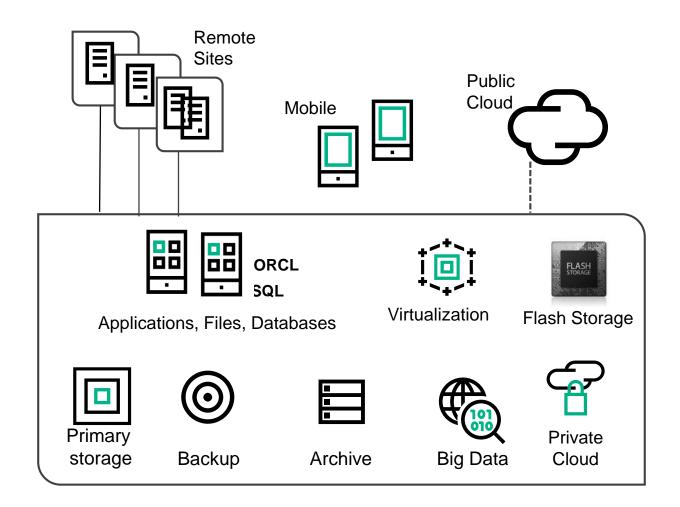
Unique requirements for mobile, cloud, virtualization, remote offices

#### Always-On

Zero tolerance for downtime. Users need access to data anytime, from anywhere



#### ...but enterprise data protection has not



#### Unpredictable

Zero planning window for rapid spikes in demand. No tolerance for manual processes

#### **Isolated**

10+ separate production, protection, archive systems for DC, ROBO, Virtualization, etc.

#### **Exposed**

Single-controller systems, failed backups, stranded data with limited IT, cyber attacks



#### What are today's data protection challenges

More pressure to prevent downtime

\$6.5M \$336K

Online brokerage per hour **Industry average cost for 1 hour** 

High cost of legacy infrastructure







**Application modernization** 







VM sprawl







**Data center consolidation** 



**Security risks and cyber attacks** 





IT managers have a choice:

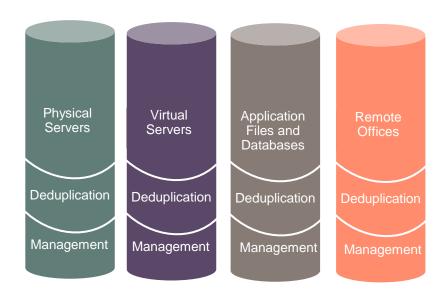
**Deploy more software or hardware point** products, or

Invest in an integrated, unified architecture



#### Point data protection products vs. a single integrated solution

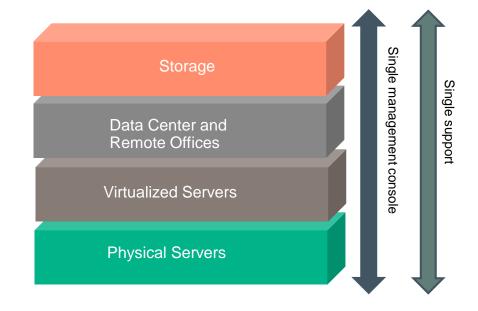
#### **Point products**



- Separate management consoles
- Siloed deduplication
- Multiple support organizations
- Separate data analytics



#### A unified, integrated solution

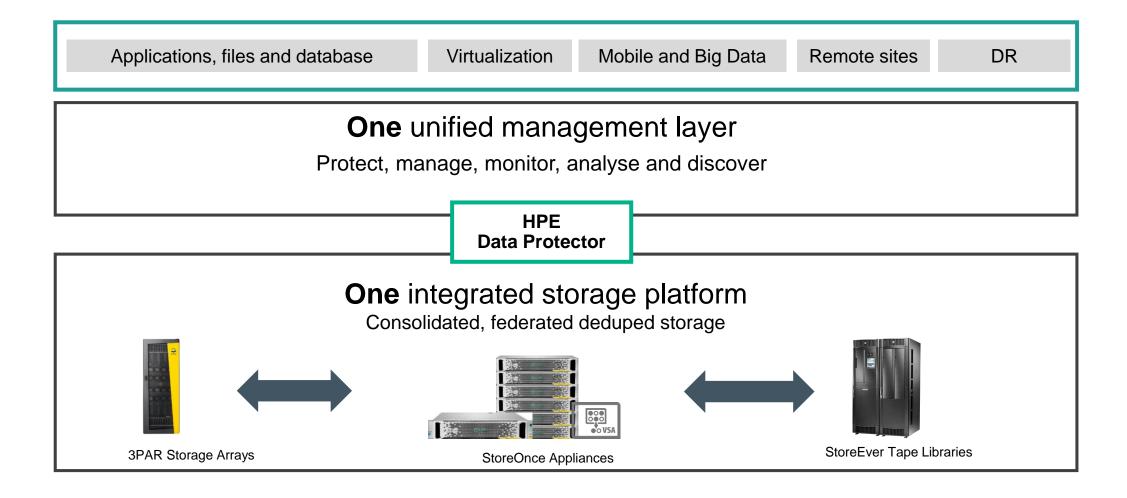


- A single software and hardware solution that is designed, tested, purchased, delivered and supported together
- One deduplication engine through the stack

Lower TCO
More reliable
Lower complexity
More innovation



#### Our single HPE data protection architecture

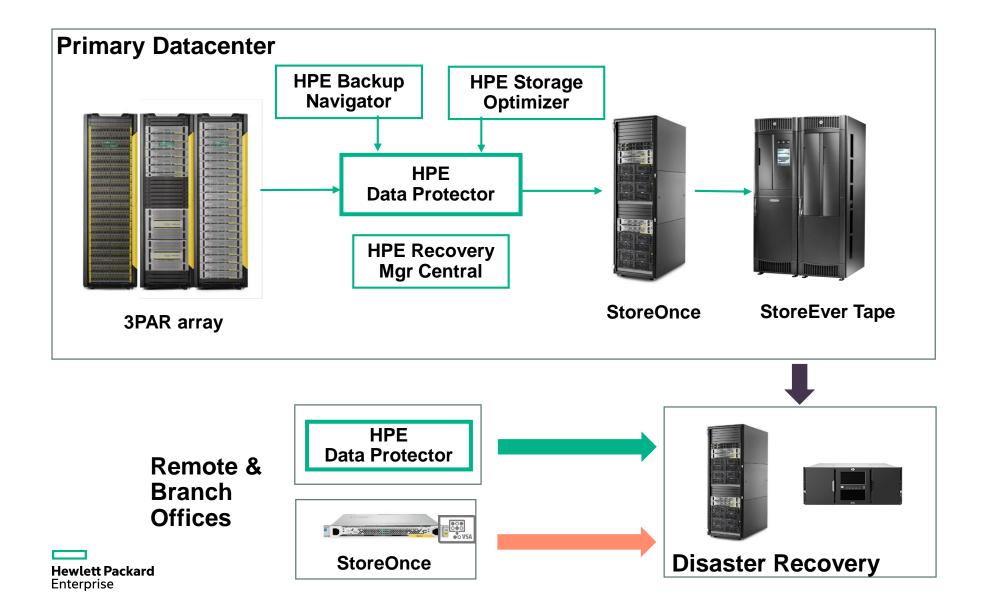




## **Unified Data Protection in action**



#### HPE data protection solution implementation

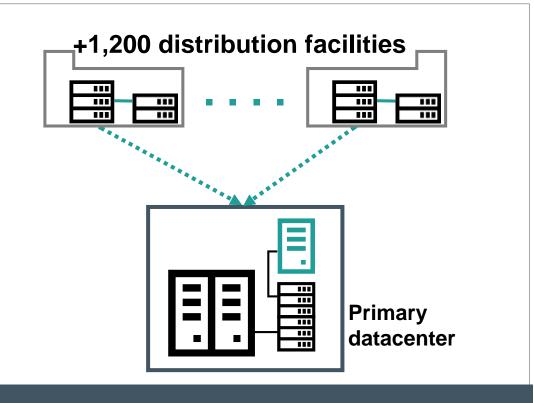




One Platform
One Interface
One Deduplication

#### **UPS: Adaptive backup in action**





#### Why HPE?

- Only vendor to offer fully centralized management of combined software & hardware solution
- HPE StoreOnce replication from remote site to data center for disaster recovery
- Remote system bare metal recovery



### **HPE Data Protector**

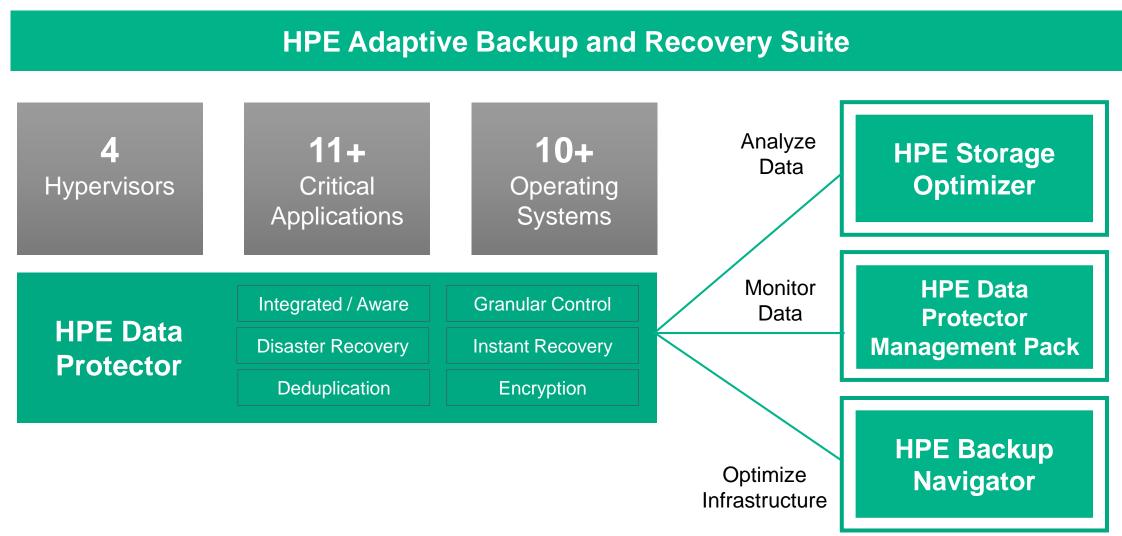
Core protection engine of HPE data protection

### 5 ways to transform your environment with HPE Data Protector

- Simplify and standardize data protection across heterogeneous environments, applications and media.
- 2 Enable performance and reliability at scale.
- 3 Ensure flexibility and control with advanced virtual server protection.
- 4 Enable business continuity and compliance with application consistent recovery.
- Maximize backup infrastructure and plan for future needs with advanced operational analytics and data storage tiering capabilities.

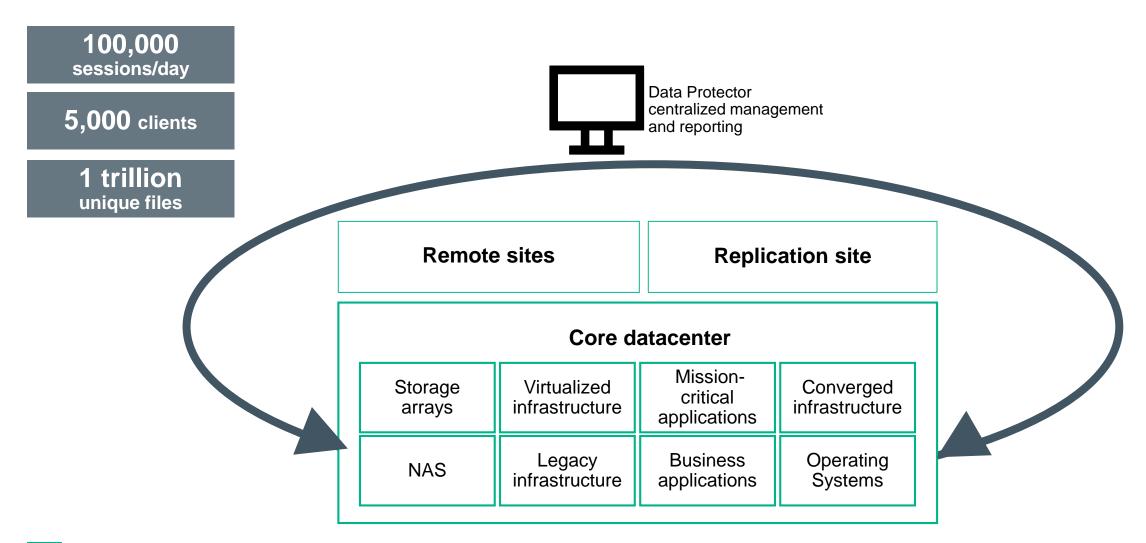


#### Comprehensive protection across all environments





### Industry leading performance and scalability





#### Advanced data protection for virtualized environments

# Multi-hypervisor support

# Flexible VM backup options

Advanced recovery options

- VMware vSphere
- Microsoft Hyper-V
- Citrix Xen
- KVM

- Agent-based
- Agentless
- Hardware-assisted agentless

- Single file recovery
- Instant VM recovery



#### Native integrations with core enterprise apps and databases

Microsoft SQL Server

Oracle Database

SAP HANA

Microsoft Exchange

Microsoft SharePoint

**VMware** 

Microsoft Hyper-V

Enable rapid and consistent recovery

- Automatically groom transaction logs
- No need to manage application integration
- Common interface for different applications
- Full and incremental backup process
- Diverse secondary storage options
- Easy to manage restore via Data Protector, StoreOnce Catalyst and RMC plugins



#### **HPE Backup Navigator – Analytics and advanced reporting**

#### >90 Reports

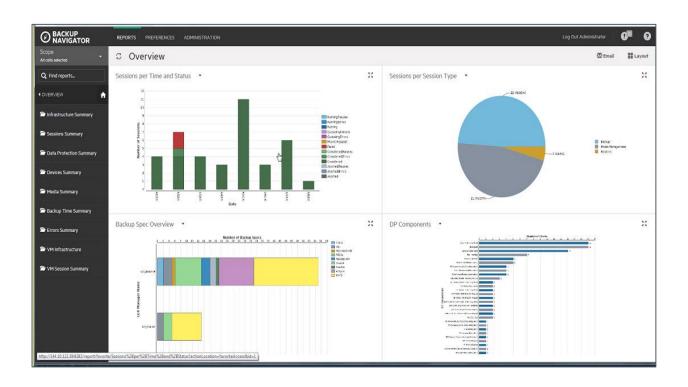
Environmental, retrospective, predictive and prescriptive analysis

**Schedule and Subscription-Based** 

**Web-based User Interface** 

**Interactive Dashboards** 

**Real-time Predictive Analytics** 



Analyze Data Protector infrastructure, locate and troubleshoot problems and simplify usage in multi-cell and multi-tenant environments



### **HPE Storage Optimizer – Analysis tool for eliminating ROT data**

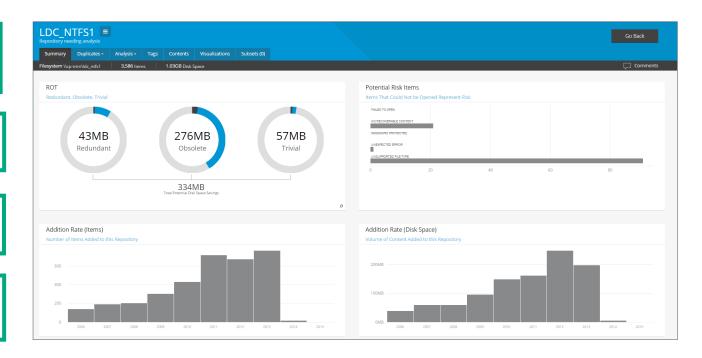
Improved infrastructure management

Lower total IT spend

Backup times reduced by up to 50%

**Better application performance** 

Support information management and governance initiatives



Analyze data to identify where to eliminate redundant or unneeded data so that you can store the right files on the right tiers and easily



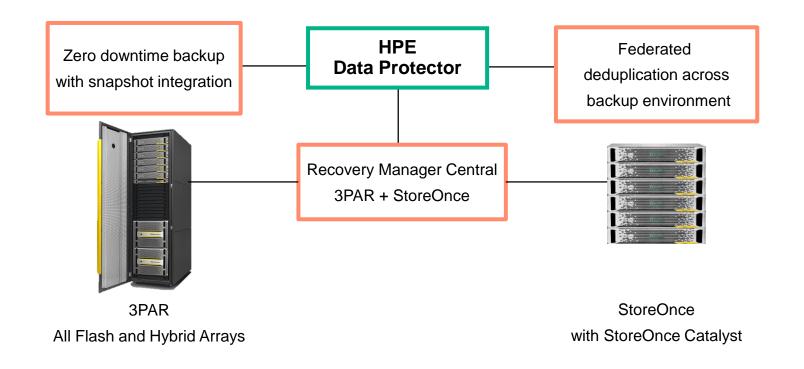
# **HPE Integrations**

HPE 3PAR, Recovery Manager Central and StoreOnce Backup Systems



### Key points of integration across software and storage

Advanced integration capabilities with best-of-breed storage













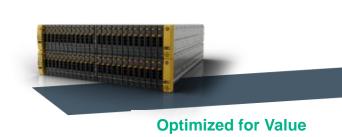




### **HPE 3PAR StoreServ portfolio: Eliminating boundaries**



- ONE Interface
- ONE Feature Set







**#1 Market Share** 

Midrange SAN Storage HP 3PAR StoreServ



IDC Worldwide Disk Storage Systems Tracker for CQ2, 2015



Flash Memory Summit

Best of Show

3PAR StoreSery 20850



All-Flash Storage Array Recommended HP 3PAR StoreServ 20000



Flash Memory Storage Array Recommended HP 3PAR StoreServ 7450



Midrange Array Best-in-Class HP 3PAR StoreServ 7000



Storage Magazine #1 All Flash Storage Array Vendor HP 3PAR StoreServ 7450

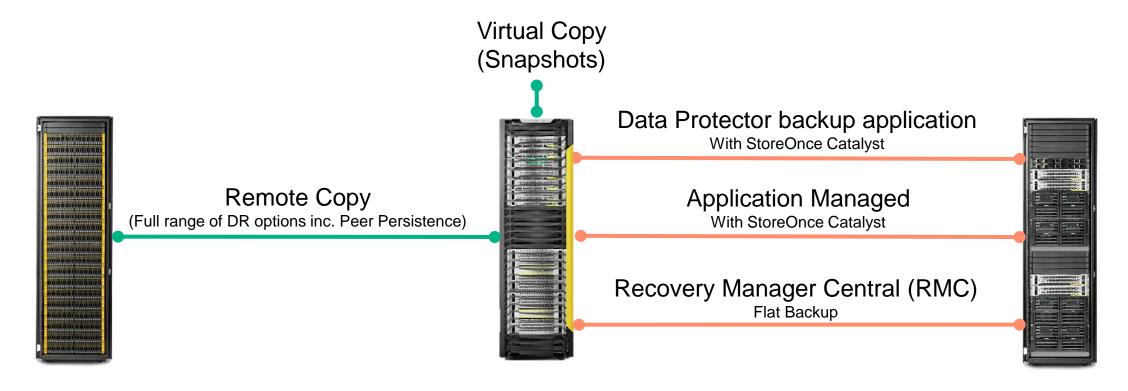


### Integrated protection and disaster recovery for 3PAR Flash





Flash Integrated Backup and Disaster Recovery



Offsite Copy 3PAR StoreServ Primary Storage 3PAR StoreServ

Secondary Storage StoreOnce



### HPE StoreOnce portfolio: A single backup platform

- Flexible deployment options (physical and VM)
- Reduced costs with up to 95% lower data volume
- Optimized data movement without rehydration

3100

5.5TB usable

- Simplified management of remote sites
- Integration with 3PAR and Data Protector

5500



Scalable up to 864TB usable

6600

Scalable up to 1.7PB usable

3520 / 3540



Scalable up to 15.5TB / 31.5 TB usable

o isable HPE Data Protector

Scalable up to 216TB usable

5100

VSA



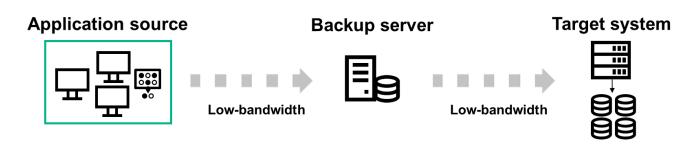
1TB, 4TB, 10TB, and 50TB usable



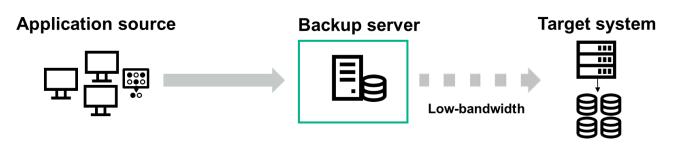




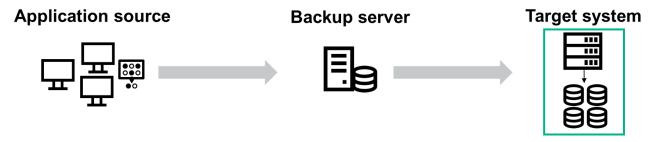
### Optimize storage with federated deduplication



- Dedupe where data is created application source
- Reduces network bandwidth requirements
- Ideal for remote or bandwidth-constrained sites



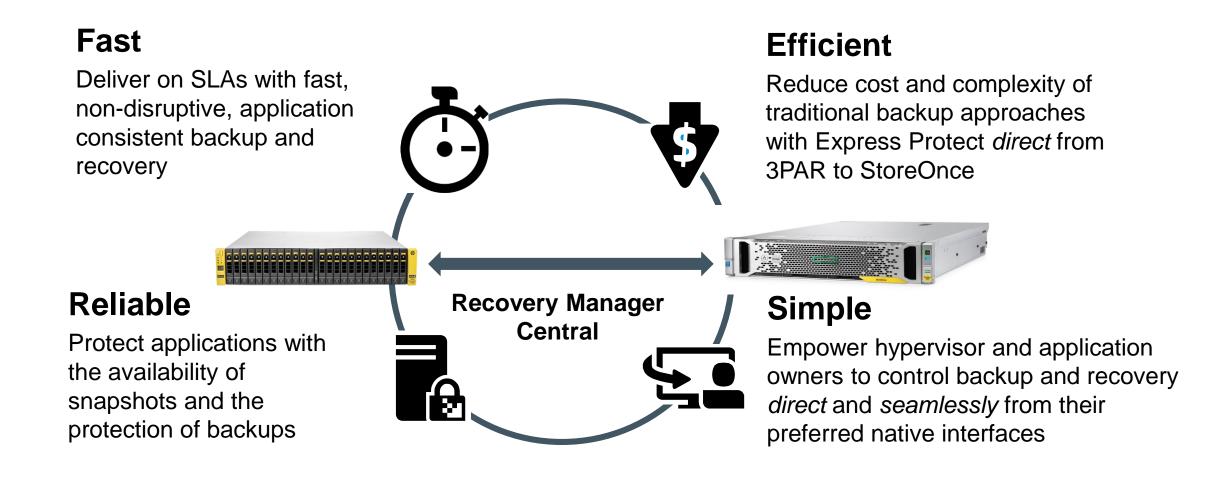
- Backup server participates in dedupe process.
- Reduces bandwidth requirements to StoreOnce.
- No additional impact on application source.



- Purpose built appliance optimized for backup data
- Simplest implementation no operational changes
- Ideal for high-bandwidth LAN environments.



### HPE Recovery Manager Central: Flash-integrated flat backup





### HPE's unified data protection solution for a modern enterprise





### Why HPE?

- One organization with highly efficient, interoperable suite of technology solutions to Protect your Digital Enterprise.
- 2 Trusted technology partner with over 80 years of innovation.
- 3 Proven performance, lower risk, lower cost, high efficiency.

#### **Call to Action**

- Are you fully protected? Can you recover fully and quickly? Engage HPE to answer.
  - Trusted highly experienced HPE Technical Consultants
  - Free Assessment Tools. Free Architecture.
  - Download Data Protector from hpe.com/software/dataprotector



# Thank you

 Complete the short survey and opt-in for more information from Hewlett Packard Enterprise.

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