Dell EMC Data Domain



А вы уверены в ваших средствах защиты?

\$914K

Average Cost of Data Loss

2.36T Data Loss

90%

Laggards or Evaluators



Global Data Protection Index

73%

Unable to keep pace with Flash

82%

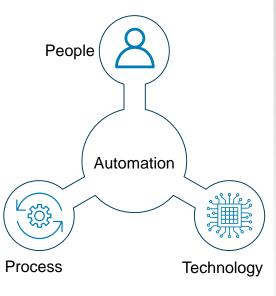
Unprepared for future business challenges

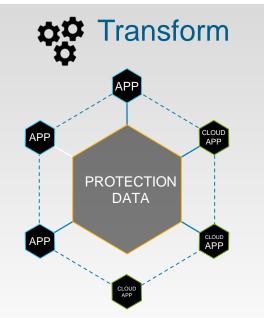
50%

Unprotected in the Cloud

Dell EMC Data Protection Strategy











Data Domain is #1

Protection storage market leader



- Over 60% share of purpose-built backup appliance market
- Install base of over 66,000 systems
- Used by 90% of the Fortune 100
- DD9800 is 7x more scalable, 1.5x faster, and 5x more streams than competition

Efficient, Comprehensive, Cloud-Enabled Protection



EFFICIENT

- Reduce storage requirements by 10 55x with variable-length deduplication
- Gain industry leading speed, scalability, and reliability



COMPREHENSIVE

- Back directly from a wide range of enterprise apps or primary storage
- Deploy protection storage however you want it



CLOUD-ENABLED

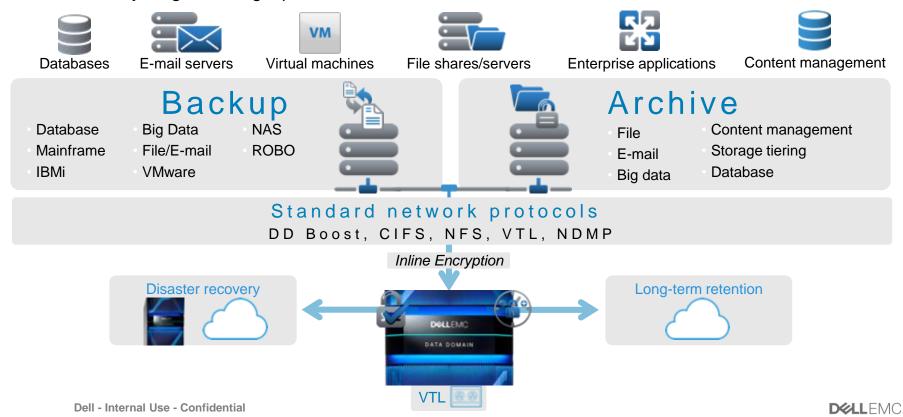
- Natively tier deduplicated data to the cloud for modern long-term retention
- Copy backed-up VMs to the public cloud (AWS) for disaster recovery

... Powered by Data Domain software



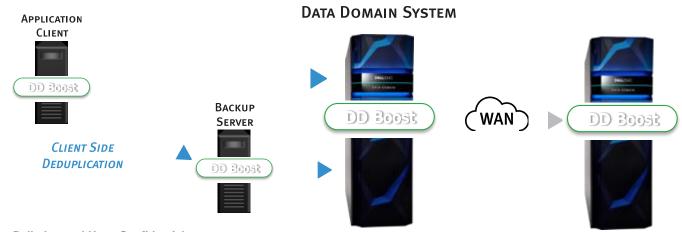
The Ultimate Protection Storage

Protect everything on a single platform

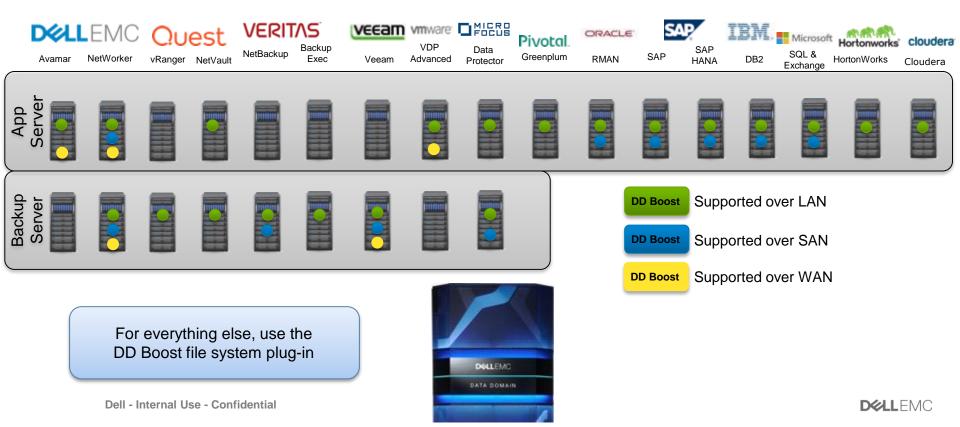


Faster, More Efficient Backup

- Data Domain Boost
- Advanced integration with leading backup and enterprise applications
- Speeds backups by up to 50%
- Reduce network utilization by up to 99%



Data Domain Boost Ecosystem



Empowering Application Owners

DD Boost for Enterprise Applications



- Native app integration
- Efficient backup & replication
- Controlled by app team

Flash-enabled performance and instant access

Improved Random IO thanks to the inclusion of flash SDD for metadata



- Backup applications such as Dell EMC Avamar can instantly access 20x faster
- Boot VMs directly from Data Domain using a protection copy

DD6300 Small & Midmarket Enterprise	DD6800 Midmarket Enterprise	DD9300 Large Enterprise	DD9800 High-End Large Enterprise
1.8X Faster	1.3X Faster	1.4X Faster	1.2x Faster

High Availability



- High availability of backup, archive, and recovery data on Data Domain ensures operational continuity to minimize downtime for users and processes.
- HA configurations are supported on DD9800, DD9300 & DD6800 and the legacy DD9500
 - Delivering business continuity for both Large and Midsized Enterprises

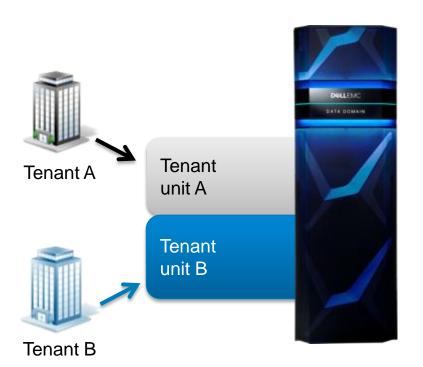
Most Reliable Protection Storage

Data Domain Data Invulnerability Architecture



Secure Multi-Tenancy

Delivering data protection as a service



- Deliver data domain in a private/hybrid cloud
- Logically isolate user data for secure self-service
- Tenant-level management and reporting

Data Domain and Data Protection Suite Family

Comprehensive, industry-leading data protection



Data Domain Flexible Integration

 Offers flexible integration with protection and management software through the Data Protection Suite Family.

The Data Protection Suite Family Includes:

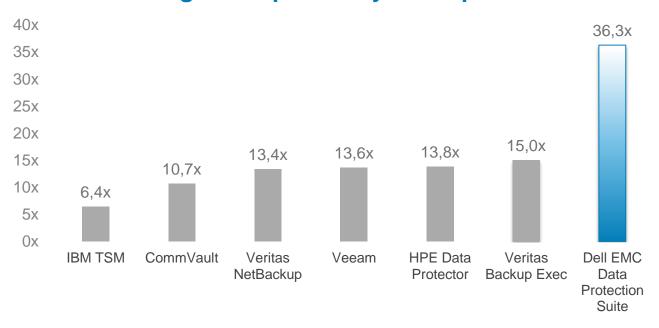
- Data Protection Suite for Backup
- Data Protection Suite for VMware
- Data Projection Suite for Archive
- Data Protection Suite Enterprise Edition

Data Domain + Data Protection Suite for Backup

Better Together



Average dedupe rate by backup software



Data Domain Replicator

- Efficient replication for backup and archive data
- Reduces bandwidth requirements up to 98%
- Protects sensitive data when replicating over untrusted networks
- Consolidates backup and archive data from hundreds of remote sites



Data Domain Cloud Tier (Available Add-On)

Unparalleled efficiency for tiering protection storage to the cloud



- Simple: automated, native tiering to public, private or hybrid cloud
- Cost-effective: send and retrieve only unique data for lower TCO
- Open: broad ecosystem and flexible deployment options

Data Domain Virtual Edition

Software defined protection storage



- Download and deploy in minutes
- Flexible capacity scales up to 96 TB
- Leverage existing infrastructure
- Includes
 - DD Boost, DD Replicator, DD Encryption
- DD Cloud Tier supported on prem

Data Domain DD3300

The innovative power of small

Designed for entry-level, branch and departmental data protection



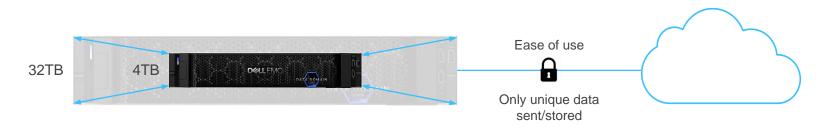
Simple and comprehensive

Cloud-ready

Multi-site scalability

Simple and Comprehensive

Enterprise-level capabilities for entry-level

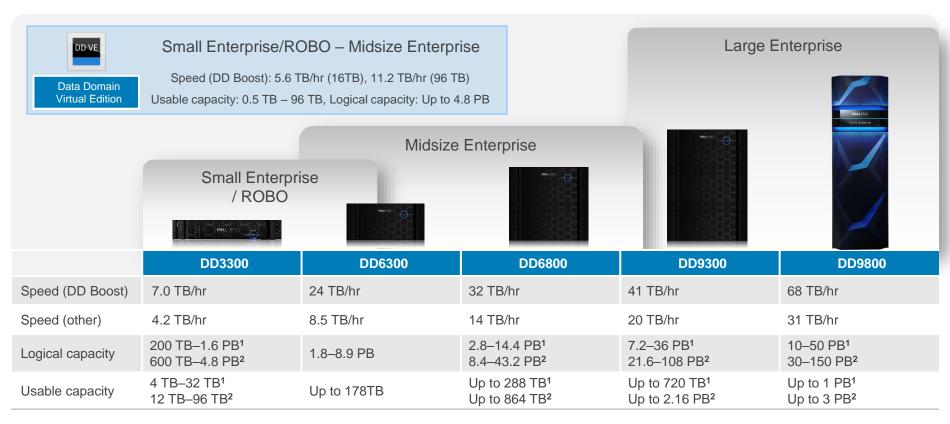


Small and robust (2U)

10-55x avg dedupe rate



Modernized Data Domain Portfolio



¹ Total capacity on Active Tier only



² Total capacity with DD Cloud Tier software for long-term retention

Cloud Ready



Automated and efficient



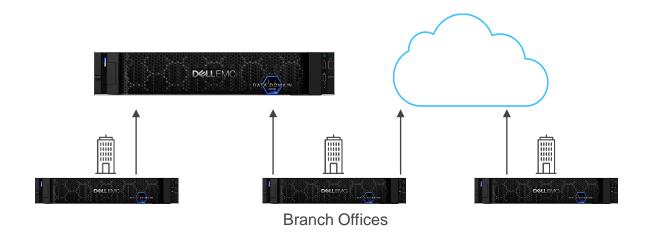
API extensible for

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Multi-Site Scalability

Any application, multi-hypervisor and cloud



Small and robust Simple and elegant Extensible via API's for platformowers up to Scalability bandwidth refficient meanageability

Multi-Site Scalability

Any application, multi-hypervisor and cloud





Single point of management across branch offices







Branch Offices

Multi-Site Scalability with Flexibility

Options to grow with your customers needs



Purchase

Affordable pricing



Physical Ease of upgrades

Available as 4TB, 16TB & 32TB



Pay as you grow

Grow in 1TB increments



Data Domain Management Center

Virtual appliance for multi-system management



- Dashboards show the aggregate status of all data domain systems: at-a-glance monitoring
- Manages and monitors up to 100 data domain systems through a single interface
- Role-based access control restricts access to authorized users

Data Domain DD3300 - Innovative Power of Small

Modern Data Domain system designed for Entry Level, Branch and Departmental Data Protection



- Comes with 4 TB, 16 TB, or 32 TB of usable capacity
- Up to 4.8 PB logical capacity with Dell EMC's leading deduplication
- Cloud-ready with DD Cloud Tier support for long-term cloud retention
 - Expand cloud capacity in 1 TB increments
- Backup 56 TB in 8 hours with a throughput of 7.0 TB/hr with DD Boost
 - 4.2 TB/hr without DD Boost

1.5x Faster

5.6x More scalable

Compared with DD2200

Data Domain DD3300 vs Legacy DD2200





Use Case/ Aspect	Dell EMC Data Domain DD3300	EMC Data Domain DD2200
Throughput	2.3 TB/hr, 5.5 TB/hr, 7.0 TB/hr	4.7 TB/hr
Capacity	4 TB, 16 TB, 32 TB ¹ 12 TB, 48 TB, 96 TB ²	4 TB, 7.5 TB, 17.1 TB
Long-term cloud retention	AWS, Azure, Virtustream, Dell EMC Elastic Cloud Storage	O N/A
Virtual Tape Library		
Fibre Channel		

¹ Total capacity on Active Tier only

² Total capacity with DD Cloud Tier software for long-term retention



Data Domain DD3300

Innovation without compromise



Simple and comprehensive

2U platform

with wide protected application ecosystem

Modern UI

Intuitive user interface

Cloud-ready

Up to 4.8PB

logical capacity with the cloud

Cloud LTR & Cloud DR

as available DD Add-Ons

Multi-site scalability

10-55x

avg dedupe rate

Up to 98%

lower bandwidth requirement



Пример применения систем Data Domain

Пример отчета с DD от реального заказчика

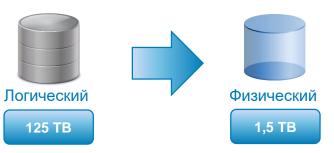




-Comp Post-Comp (GiB) (GiB			Total-Comp Factor (Reduction %)
570.1 1509.	. 2 –	-	83.2x (98.8)
845.7 68.	.0 207.8x	2.4x	497.5x (99.8)
160.1 9.	.3 180.9x	2.5x	445.2x (99.8)
	160.1 9	160.1 9.3 180.9x	160.1 9.3 180.9x 2.5x

Защищено

Использовано



83 x Дедупликация

D\$LLEMC