

Dell EMC Data Protection



Technical Overview

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MEGA TRENDS

1 Changing customer expectations requires Digital Transformation



Always on



Connected



Protected



Fast

Modern data protection has been shown to be a part of many IT Transformation initiatives.**
Transformed organizations adhering to a modern, comprehensive data protection strategy excel.

**ESG IT Transformation Maturity Curve July 2018

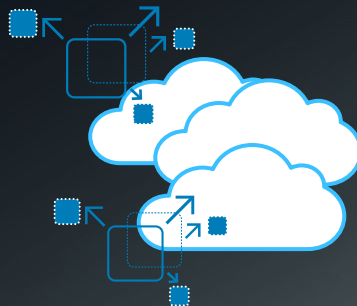
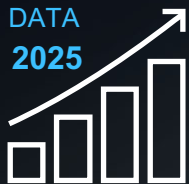


MEGA TRENDS

2 Massive data growth and data distribution require IT Transformation

163ZB*

DATA
2025



Data growth & democratization

Modern data protection has been shown to be a part of many IT Transformation initiatives.**
Transformed organizations adhering to a modern, comprehensive data protection strategy excel.

* IDC Global Datasphere Forecast

**ESG IT Transformation Maturity Curve July 2018



Data Protection for Small and Mid-size Organizations

CHALLENGES



Increase in data volumes, users, apps



Cloud extensibility



Do more with less

REQUIREMENTS



Simplicity for quick time-to-value



Efficient cloud enablement



Low cost-to-protect



High performance



Today's Solutions

Simplicity	✓
Coverage	✗
Performance	✗
Efficiencies	✗

HIGHER COST-TO-PROTECT



#

1

in Data Protection Appliance
& Software Market*

PROVEN AND TRUSTED

Dell EMC Data Protection



Most Comprehensive
Portfolio



High performance
& Ease of growth



High efficiency &
Low cost-to-protect

Solution-level Simplicity | Single Vendor Worldwide Support

INTRODUCING

Integrated Data Protection Appliance DP4400

Simply Powerful.



@ Lowest cost-to-protect.¹
Guaranteed.

DELL EMC DATA PROTECTION

Simplicity is a Converged Solution



Backup &
Restore



Days

2U and 10x¹ faster

Easy to deploy & upgrade



Hours



Deduplication



Cloud DR
+ LTR



Instant Access
+ Restore



VMware
Integration



Replication



Disaster
Recovery



Search &
Analytics



12TB–96TB

—————> + 192TB with 

without additional HW*

Densest 2U appliance—up to 20% more capacity²

DELL EMC DATA PROTECTION

Simplicity is Easy Management

Modern UI



PLAY VIDEO



Dashboards



Exception resolutions



Policy management



Reporting



DELL EMC DATA PROTECTION

Power is Protection Everywhere

Largest application ecosystem¹

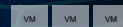
Any application, multi-hypervisor and cloud

Integration with VMware, SQL, Oracle native management tools

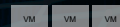
Physical



Home grown & custom apps



vmware



Microsoft Hyper-V

Virtual

DELL EMC
Elastic Cloud Storage



Microsoft
Azure



IBM Cloud
Object Storage

Cloud



virtustream.



DELL EMC DATA PROTECTION

Power is Built For VMware

Comprehensive Data Protection Integration with vmware®



vSphere
Web Client



vSphere
vCenter



vCloud
Director



vRealize
Log Insight



vRealize
Operations
Manager



vRealize
Automation

Protect up to 5x more VMs in 2U¹ • Simple, cost effective to scale to more VMs • Faster backups and recoveries

DELL EMC DATA PROTECTION

Power is Performance & Efficiency

Powered by

14G PowerEdge
Server

Source-side
deduplication



NVMe flash for
instant access
& restore



Boosted
application-direct
protection



Up to

2X

faster backups¹

Up to

98%

less bandwidth required¹

7X

more backup streams¹

55:1

Avg dedupe²

¹ESG Lab Review commissioned by Dell EMC, February 2018, versus a competitive Vendor A. [Additional information](#) on the testing environment.

²Based on Dell EMC internal analysis of customer data as of May 2018.

DELL EMC DATA PROTECTION

Power is Cloud



DATA PROTECTION

Automated and efficient data movement
Eliminates the need for cloud gateway
API extensible for simplified management
Free estimator tool for capacity management



Long-term retention

Disaster recovery

UP TO **2X usable capacity** in the cloud with
Cloud Tier

DELL EMC DATA PROTECTION

Power is Cloud Disaster Recovery

Efficient with End-to-End Orchestration



PLAY VIDEO



Integrated Cloud DR

3 clicks to failover



Protect in AWS

2 clicks to failback

DELL EMC DATA PROTECTION

Built for ROBO

Local data protection that's cost-effective and efficient



Simple deployment
& management

Local restores for
speed & efficiency

Easy cloud & data
center replication

DELL EMC DATA PROTECTION

@ Lowest Cost-to-Protect

Included Offers



CLOUD DR



CLOUD TIER



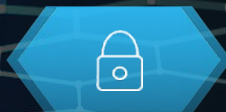
RP4VMs

5TB of licenses¹
Grow in 1TB increments

5VMs, 1-yr subscription

Power is Cloud Disaster Recovery

Efficient with End-to-End Orchestration



Integrated Cloud DR

- DR testing & failover to AWS
- Protect directly from on-prem into S3
- Failback on-premises
- Recover in minutes, reducing RTO

3 clicks to failover

Protect in AWS or Azure

- Minimal cost & footprint
- Seamless integration with on-premises DP
- Best-in-class deduplication
- Leverage what you know and own

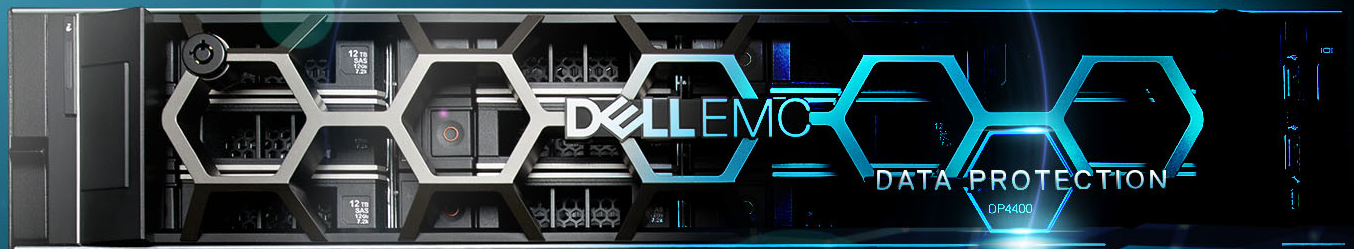
2 clicks to failback



PLAY VIDEO

INTRODUCING

Integrated Data Protection Appliance DP4400. Simply Powerful.



@ Lowest cost-to-protect.¹
Guaranteed.



PLAY VIDEO

DELL EMC DATA PROTECTION

Simplicity is easy deployment (IDPA DP4400)

Install in 3 easy steps



Configurable



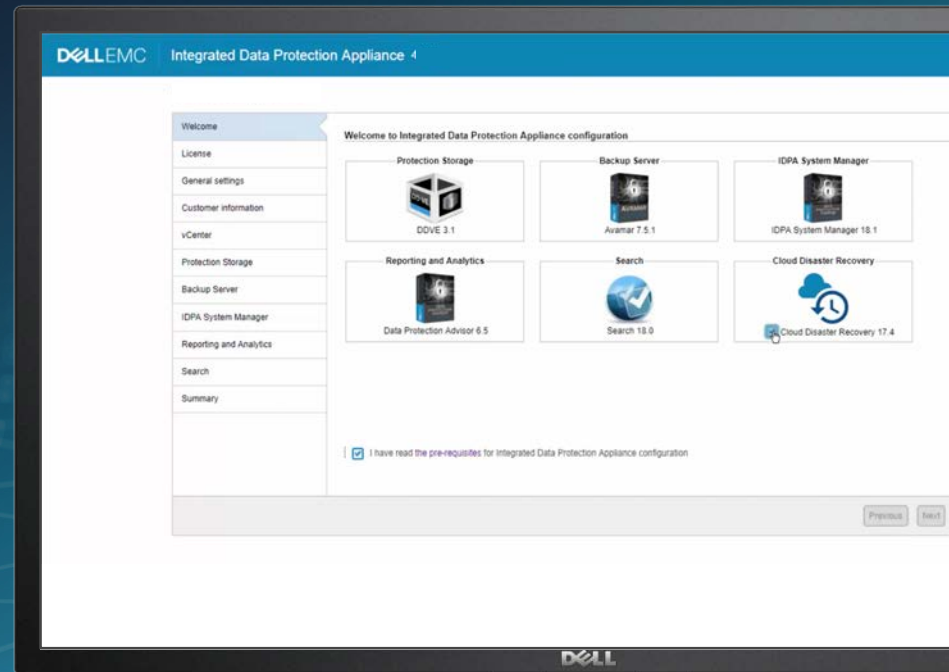
Easy Upgrades



Wizard Interface



System status and
configuration



DELL EMC DATA PROTECTION

Comprehensive IDPA Portfolio

SMALL,
MIDSIZE
& ROBO

MIDSIZE
ENTERPRISE

LARGE ENTERPRISE

DP4400

DP5800

DP8300

DP8800

BACKUP
INGEST

Up to 9 TB/hr

Up to 32 TB/hr

Up to 41 TB/hr

Up to 68 TB/hr

LOGICAL CAPACITY³

80 TB to 4.8 PB¹
240 TB to 14.4 PB²

960 TB to 14.4 PB¹
2.8 to 43.2 PB²

1.9 to 36 PB¹
5.7 to 108 PB²

6.2 to 50 PB¹
18.6 to 150 PB²

USABLE CAPACITY

8 to 96 TBu¹
Up to 288 TBu²

96 to 288 TBu¹
Up to 864 TBu²

192 to 720 TBu¹
Up to 2.16 PBu²

624 TBu to 1 PBu¹
Up to 3 PBu²



Integrated Data Protection Appliance

DP4400

Simply Powerful

@ Lowest cost-to-protect.
Guaranteed.

- Faster
- More efficient
- More comprehensive
- Easier to grow in place and to the cloud
- Differentiated disaster recovery and long-term retention to cloud

Integrated Data Protection Appliance DP4400



Simply Powerful
@ Lowest cost-to-protect.
Guaranteed.

D~~EL~~LEMC

DELL EMC

Integrated Data Protection Appliance DP4400

Simply Powerful.

SIMPLE

Management
Deployment & upgrade
Grow-in-place & to the cloud



POWERFUL

Comprehensive coverage
High performance
Efficient cloud

@ Lowest cost-to-protect.¹
Guaranteed.

DELL EMC DATA PROTECTION

Simplicity is a Converged Solution



DELL EMC INTEGRATED DATA PROTECTION APPLIANCE DP4400

Complete Backup, Deduplication, Replication, Recovery + Cloud DR & LTR

SIMPLY POWERFUL

@ Lowest cost-to-protect.¹
Guaranteed.

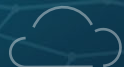
Backup servers
& storage



Search &
analytics²



Cloud
DR + LTR

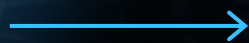


Backup
software



System
management

8TB–96TB



+ 192TB with



without additional HW*



NVMe
flash

Densest 2U appliance—up to 20% more capacity³