

DELL EMC INTEGRATED DATA PROTECTION APPLIANCE (IDPA)

Simply powerful data protection at a low cost-to-protect. Guaranteed.

Simple

- Integrated protection storage and software
- Easy to deploy, scale and manage via single pane of glass
- Protects everywhere across the largest application ecosystem
- 10x Faster Deployment¹

Powerful

- Extends data protection to private and public clouds with Cloud Tier for LTR and Cloud DR — with no additional hardware
- Reduces costs for LTR capacity management with space estimator tool
- Protection for modern applications and optimized for VMware virtual environments
- VMware File-level Recovery, dynamic policies for VMs, application-consistent VM image backups
- Uses Data Invulnerability Architecture (DIA)
- NVME flash-enabled for faster performance and instant recoverability
- Automated monitoring, analytics, reporting, plus search capabilities

Low Cost-to-protect

- Up to 55:1 source-side deduplication²
- Average cost less than one half penny per GB per month³

Data protection is becoming more complex

Organizations need to efficiently protect an ever-increasing amount of data in a growing distributed ecosystem of applications and workloads — all while improving time-to-value, reducing overall cost and complexity, and planning for growth. Organizations also need to seamlessly incorporate cloud into data protection strategies.

This is not easy to accomplish with many of today's data protection solutions which sacrifice performance for simplicity or require multiple products and vendors—resulting in lengthy and time-consuming deployment while delivering complex and expensive management of fragmented data protection environments.

Dell EMC IDPA: Simply Powerful Data Protection

The Dell IDPA is an all-in-one backup appliance that reduces the complexity of managing multiple data silos, point solutions and vendor relationships. The IDPA simplifies deployment and management—while delivering powerful, enterprise-grade data protection capabilities for small, mid-size and enterprise organizations at a low cost-to-protect than competing solutions. It is an integrated solution that offers complete backup, replication, recovery, deduplication, instant access and restore, search & analytics, seamless VMware integration — plus, cloud readiness with disaster recovery (DR) and long-term retention (LTR) to the cloud — all in a single appliance.

With the IDPA, customers reduce time-to-protect with up to 10X faster deployment than traditional solutions.¹ Organizations become more agile with a solution that's fast, protected more efficiently, can be recovered quickly and is reliable.

Simple to deploy, scale and manage

The IDPA enables organizations to protect the largest ecosystem of applications quickly with a single system management console, consolidating workload protection, and eliminating infrastructure or data sprawl. The easy-to-use IDPA System Manager simplifies backups and automates daily tasks, including monitoring, management, reporting, analytics and search.

IDPA delivers all-in-one data protection: protection storage and software, search and advanced monitoring and analytics, combined

Density and performance

- Up to 3 PB (usable), 150 PB (logical) capacity with cloud tier⁴
- Up to 40K IOPS for instant access and restore⁵

Industry-leading efficiency

- Up to 55:1 data deduplication²
- Instantly access up to 48 VMs⁵

Enterprise applications

- Oracle, SAP, Microsoft Exchange, SharePoint, MS SQL Server, Sybase, MySQL, MongoDB, Pivotal Greenplum, IBM DB2, Lotus Notes, and more
- Hypervisors supported: VMware, Microsoft Hyper-V, and KVM
- All major file systems, including Windows, Linux, HP-UX, AIX, Solaris, Mac OS and more

Native Cloud-Tier

- Public, private, or hybrid
- Supported cloud providers include: Amazon Web Services, Dell EMC Elastic Cloud Storage, Microsoft Azure, VMware, IBM Cloud Object Storage, Google Cloud Platform, Alibaba Cloud and Ceph

Native Cloud Disaster Recovery

- Orchestrated via AWS, Microsoft Azure, or VMware Cloud on AWS

Future-Proof Loyalty Program

- Peace-of-mind with 3-year satisfaction guarantee, predictable, support pricing, hardware investment protection, flexible cloud-enabled consumption and up to 55:1 data protection deduplication guarantee

with cloud extensibility. It offers integration with VMware, SQL and Oracle management tools so that admins can use familiar UIs.

Powerful cloud, performance and efficiency

IDPA can scale to fit the needs of enterprises with the ability to protect up to 150 PB (logical) of data to the public, private or hybrid clouds with Cloud Tier, with no additional hardware.⁴ Plus, native Cloud DR with end-to-end orchestration allows enterprises to copy backed-up VMs from on-premises IDPA environments to the public cloud with AWS, Azure, or VMware Cloud on AWS —3 clicks to failover and 2 clicks to failback.

IDPA provides support for modern applications like MongoDB and MySQL and is optimized for VMware. It provides fast, single-step recovery of individual files, dynamic policies for VMs as well as complete VMware images, which can be instantly accessed and migrated live from IDPA back to the production environment (using vMotion) while still running, further simplifying and optimizing VM recovery. IDPA offers up to 3x faster backups for VMs and up to 10x faster restores for VMs at scale.⁶ Plus, instantly access up to 48 VMs with up to 40,000 IOPS to meet the strictest SLAs.⁵

Data protection search simplifies file-level-recovery (FLR) activities with an easy-to-use search interface. IDPA is also built on the industry-proven Data Invulnerability Architecture (DIA), for encryption, fault detection, and healing.

Low Cost-to-protect

IDPA offers high-efficiency inline deduplication — with an deduplication rate of up to 55:1 — for data on premise and in the cloud.² It costs less than on half a penny per GB per month.³

Dell EMC Integrated Data Protection Appliance Family

	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 PB ¹ Up to 14.4 PB ²	960 TB to 14.4 PB ¹ Up to 43.2 PB ²	1.9 to 36 PB ¹ Up to 108 PB ²	6.2 to 50 PB ¹ Up to 150 PB ²
Usable Capacity	8 to 96 TBu ^{1,5} Up to 288 TBu ²	96 to 288 TBu ¹ Up to 864 TBu ²	192 to 720 TBu ¹ Up to 2.16 PBu ²	624 TBu to 1 PBu ¹ Up to 3 PBu ²

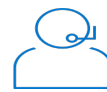
¹ Total capacity on active tier only ²Total capacity with cloud tier add-on for long-term retention ³ Logical capacity based on 10x to 50x deduplication

Guaranteed

The Future-Proof Loyalty Program provides customers investment protection with a set of world class technology capabilities. This offer provides Dell EMC data protection products value for their entire lifetime.



[Learn More](#) about Dell EMC IDPA solutions



[Contact](#) a Dell Technologies Expert

¹ Based on Dell EMC internal testing, May 2019, compared to traditional deployments. Actual results may vary.

² Based on Future-Proof Loyalty Program data protection deduplication guarantee.

³ Based on ESG whitepaper by Dell EMC, "The Economic Value of Data Domain and Integrated Data Protection Appliances (IDPA)", June 2018. Actual results may vary

⁴ Total capacity with cloud tier for long-term retention.

⁵ Based on Dell internal analysis using PowerProtect DD OS 7.0 performance guide, Rev 01, Nov. 11th, 2019.

⁶ Based on ESG Technical Review commissioned by Dell Technologies, "Efficiently Protect Virtual Environments with Integrated Data Protection Appliances from Dell EMC", January 2020, comparing Dell EMC IDPA DP5800 vs. a leading competitive hyperconverged data protection appliance solution from Vendor X. Actual results may vary.

⁷ Dell EMC Information Technology Equipment is compliant with all currently applicable regulatory requirements for Electromagnetic Compatibility, Product Safety, and Environmental Regulations where placed on market. Regulatory information and verification of compliance is available at Dell Regulatory Compliance site. http://dell.com/regulatory_compliance