DELLEMC

TOP REASONS WHY CUSTOMERS DEPLOY DELL EMC UNITY ALL-FLASH

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Dell EMC Unity represents the ultimate in All-Flash performance and simplicity in the midrange all-flash storage market. These All-Flash arrays come with automated application integration, cloud management, inline data reduction efficiencies, and all-inclusive software to provide customers with the best All-Flash array performance and simplicity in midrange storage.

1 | Designed for All-Flash

The new Dell EMC Unity All-Flash arrays provide the midrange market with the best all-flash density and performance. These All-Flash systems implement linear multicore scaling, inline compression for block and file, and intelligent wear leveling software. With the Broadwell Intel chip, Dell EMC Unity offers incredible flash performance and supports a density of 500TBe per U with the new 80 drive 3U enclosure and high capacity 15.36TB 3D NAND Flash drives. In addition, with dynamic pools, you can add a single drive at a time resulting in faster rebuild time, and higher space utilization. All-Flash configurations can start under $18K, and can scale up to 16PB of raw system capacity.

2 | Unmatched Simplicity

Dell EMC Unity represents the ultimate in in storage simplicity. These systems are *simple to setup* – you can perform a rack and stack installation in just a few minutes and in 15 minutes you're configured; *simple to use* – experience an intuitive HTML5 Unisphere™ interface with improved VMware and Microsoft integrations; *simple to service/support* – you get a built-in self-service portal with features and capabilities that easily help you resolve issues faster.

3 | Cloud Management

Dell EMC Unity provides integrated cloud management platform with capabilities for IT to stay connected and resolve problems faster than before. CloudIQ is a no cost software as a service management application that proactively monitors and measures the overall health of Dell EMC storage systems through intelligent, comprehensive, and predictive analytics.

4 | All-Inclusive Software

All Flash configurations include all the software you need to easily consolidate and manage virtualized application workloads. Dell EMC Unity's all-inclusive software includes HTML5 Unisphere Management Suite, inline compression, deduplication and zero detect for file and block, unified protocols (file, block, VVols), unified snapshots and thin clones with Dell EMC AppSync integration, encryption, native replication, AppSync and RecoverPoint Basic, RecoverPoint for VMs, and a 180 day free VPLEX migration license. Optional Dell EMC software includes VPLEX, PowerPath, Data Protection platforms, and Advanced AppSync and RecoverPoint solutions.

5 | Tiering to the Cloud

IT can improve business efficiency by seamlessly tiering inactive files and archiving block snapshots to VirtuStream, Microsoft Azure, or Amazon S3 public clouds. CTA also supports the same block archiving and file tiering capabilities to the Dell EMC private cloud – Elastic Cloud Storage (ECS). Customers can take advantage of CTA's ability to automate repository migrations among these cloud providers as business and platform requirements change.

6 | Scalable File System

Dell EMC Unity All-Flash supports enterprise and transactional NAS use cases with a new 256TBu file system. The UFS64 file system includes up to 256 independent VMDK clones, 16 thin clones, space efficient snapshots with a simple space reclaim and low IO impact, file system shrink that can reclaim free blocks, simplified Quotas for User, Tree and Group Quotas, and faster failovers with in-memory log replay for faster and non-disruptive failovers.

7 | Software Defined Storage

The Dell EMC Unity Virtual Software Appliance (Dell EMC UnityVSA™) provides the advanced unified storage and data management features of the hardware product family, including software functionality, while being easily deployed on a VMware ESXi server. Users can create shared storage with NAS and iSCSI SAN storage protocols and data services compatible with hardware platforms, and deploy on industry-standard server hardware. With the flexibility of software-defined storage, users can quickly and easily deploy the VSA for a variety of uses including ROBO, test and development and embedded applications, while maintaining full compatibility with their Dell EMC Unity platforms.

8 | Deployment Flexibility

Deployment flexibility recognizes that customers have different budget and operational requirements. Dell EMC Unity is offered as a software-defined virtual storage appliance or as a purpose-built all-flash or hybrid configuration. It is also delivered as part of a converged infrastructure solution with Dell EMC VBlock™ when IT prefers to purchase servers, networks, and storage together at the same time.

9 | Application Integration

Building on its leading midrange performance and simplicity foundation, Dell EMC Unity All-Flash arrays leverage space efficient snapshot and thin clone technology, integrated with AppSync to deliver integrated copy data management for the midmarket. These efficiency technologies abstract the copy operations as a metadata operation without intruding on back-end resources. The integration of AppSync and Dell EMC Unity All-Flash allows instant, high performance copies of any data set for many Small-to-Medium Business applications, with data services like inline compression, and thin provisioning, with no impact on production or other copies. Every customer who makes copies of an application or database for development or testing purposes, operations, analytics, and/or data protection will benefit dramatically from a Dell EMC iCDM solution.

10 | Enterprise Solution Ready

Dell EMC Unity All Flash continues the legacy of Dell EMC midrange storage, enabling IT to cost-effectively consolidate and manage enterprise file and transactional workloads, over NAS and SAN, into a single storage system. With powerful VMware, Microsoft, and OpenStack virtualization integration, they meet the performance, scalability, and data protection needs of demanding mixed-workload environments.

Learn more about Dell EMC Unity solutions

Contact a Dell EMC Expert

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