

UNITY XT ALL-FLASH STORAGE ARRAYS

No compromise storage built for a multi-cloud world

ESSENTIALS

- **Modern:** 2U NVMe-ready design future proofs your investment; scalable to 1500 drives and 16PB raw capacity
- **Powerful:** Dual-socket Intel™ CPUs, dual-active controllers, more cores and memory to drive more performance & less latency than previous models
- **Efficient:** Higher system efficiency with guaranteed 3:1 DRR providing more effective usable capacity, higher density lowering TCO
- **Simple:** Install & configure in 25 minutes, with intuitive easy-to-use web based (HTML5) management
- **Flexible:** Deploy as a physical appliance, software defined storage or as part of a converged infrastructure - all sharing one OS and GUI
- **Multi-Cloud:** Unity XT provides multiple cloud deployment options that help to simplify IT, lower costs and reduce complexity

BENEFITS

- **Performance:** Get 2X more performance across Reads, Writes and mixed R/W workloads with up to 75% lower latency
- **All-inclusive:** Every Unity XT comes to you with all-inclusive software making your investment easy to purchase and own.
- **DevOps integrations:** Unity XT provides plug-in integration with VMWare vRO and Kubernetes.
- **Metro node:** True active-active synchronous replication over metro distances.

Designed for performance

Unity XT storage systems continue the Dell midrange storage tradition of increasing performance with each product generation. With up to three times the transactional performance of the VNX2, Unity XT X80F systems take full advantage of newer Intel™ dual-socket processors and more cores and memory to deliver a 2X increase in Read, Write, and Mixed Workload performance compared to the previous Unity models. Unity XT storage systems have the raw performance to ensure that controllers don't become the limiting factor, enabling users to scale as needed to keep pace with application IOPS, latency and capacity growth.

Architected for all-flash – Unity XT All-Flash storage starts in a sleek 2U form factor with a modern architecture designed for all-flash performance. The design includes linear multicore scaling, inline data reduction with zero detect for block and file, zero impact drive firmware-based garbage collection, write coalescing minimizing IO, intelligent wear leveling, high density SSD's including 15.36TB drives. A high-density enclosure supports eighty flash drives in just three rack units, for even greater space efficiency.

Optimized for efficiency

Customers can offset data growth with a guaranteed 3:1 DRR with no assessment achieved through inline compression and deduplication. Density is also increased by ~27% up to 790TBe per RackU (5U) using 15.36TB SSDs and an 80 drive 3U expansion enclosure. Also, unlike some competitive systems, Unity XT is an active-dual controller architecture that ensures data access with 5-9's availability.

Consolidate applications – If you have several demanding environments, such as databases and transactional processing, Unity XT systems are the way to easily consolidate them to save space and cost, while improving performance, efficiency and response time.

Data migration – Even if you've been using legacy Dell EMC systems (Dell EMC Unity, VNX) or 3rd party storage systems, migrating data to Unity XT couldn't be simpler. Unity XT provides you with built-in and best practice data migration capabilities for file and block data directly managed from Unisphere making your transition seamless. File migration from NetApp and VNX is also available through the Cloud Tiering Appliance.

Expanded file capabilities – Unity XT's unified design supports a 64-bit file system that scales four times larger than VNX and adds features like file system shrink and reclaim that improves utilization and flexibility, Top Talkers or correlated file stats and full sync/async file replication capabilities with Metrosync file failover management.

Built for multi-cloud

Customers now demand their storage infrastructure be cloud ready. Unity XT All-Flash and Hybrid models are built for a multi-cloud world, so you can easily leverage these platforms with flexible cloud deployment options:

Validated designs

- Unity XT was the first external storage platform to be validated for use with VMware Cloud Foundation (VCF) enabling you to build your own hybrid cloud on VCF with NFS and best of breed components to easily provision storage.

Multi-cloud Data Services enabled by Faction for Unity XT

- VMware customers can consume services in the cloud with and benefit from an automated DRaaS solution with Unity XT in VMware Cloud on AWS for seamless, enterprise-grade, pay-as-you-go DR in the cloud. Through this same infrastructure model, you can achieve agile, multi-cloud access that allows you to easily leverage and switch between multiple clouds for use cases such as workload migration, analytics, test/dev and more to maximize business outcomes.

Expand to the Cloud

- Expand to the cloud with Dell EMC Cloud Tiering Appliance, an automated policy-based virtual appliance for file tiering and block snapshot archiving to four S3-based clouds and PowerScale freeing up valuable capacity and reducing backup windows.



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Consume in the Cloud

- Consume Dell EMC Cloud Edition in the cloud. This is a full featured Unity XT software-defined storage solution with HA deployed with VMware Cloud Foundation on AWS that brings file services to the cloud and used for running a VDI environment, Test/Dev, replication services to a third site – and more.

Cloud Data Insights

- CloudIQ is a secure and no cost cloud-based storage analytics application that uses machine learning, proactive monitoring, and predictive analytics to provide a comprehensive health score for every connected array helping IT to proactively troubleshoot their storage environment from anywhere.

Data protection

Enterprise data protection solutions deliver the resilience and availability to protect your organization from data and application outages or worse. Unity XT takes the financial pain out of availability and disaster recovery deployment by including a complete suite of all-inclusive data protection software such as unified snapshots and thin clones, unified sync/async replication with throttling and snapshot replication, metro node synch replication, data-at-rest encryption and file level retention. Unity XT also supports RecoverPoint continuous data protection and remote replication.

Unified snapshots – Unity XT simplifies daily operations by providing a single interface for creating and managing snapshots and thin clones for block and file storage, reducing operational complexity. And with UFS64, you get up to 256 snaps per file system and the ability to create thin clones from snapshots. Snapshots can be replicated, refreshed, applied to vVols and compared to report back differences.

Integrated copy data management - Unity XT supports snapshot mobility & thin clone interoperability with Dell EMC AppSync application-aware and orchestration to provide customers with integrated copy data management (iCDM) saving capacity and costs.

Local and remote replication – Unity XT includes a full complement of native array-based as well as RecoverPoint replication options, providing robust protection with no additional investment. Replicate snapshots for greater data protection and recovery options. Unity XT includes native asynchronous and synchronous replication for both file and block data with async throttling, async interface pairing and full copy avoidance. Unity XT also supports the use of Metrosync Manager for automated file level failover and synch replication over metro distances.

File protection – Unity XT file data is protected with File-level Retention (FLR) for safeguarding files from modification or deletion until a specified retention date. FLR allows you to create a permanent, unalterable set of files and directories and ensure the integrity of data. There are two different types of file-level retention available: Enterprise (FLR-E) and Compliance (FLR-C).

Simplified management

Unity XT brings new levels of visibility and control to your storage operations, augmenting the global management capability of Unisphere Central with a modern HTML5 element management interface. Additionally, Unity XT is supported by Dell EMC's cloud-based storage analytics application – CloudIQ. A REST API supported on all Unity XT arrays leverages the Unity XT HTTP interface to flexibly manage and automate operations for your Unity XT storage and other REST-enabled platforms.

DevOps integrations

Containers are fast becoming the new software architecture paradigm and Kubernetes has emerged as a popular Container Orchestration platform choice. Dell EMC is at the forefront of developing solutions that enable customers to efficiently run containerized workloads while leveraging powerful storage integrations for DevOps workflows. Dell EMC Unity XT now supports the Container Storage Interface (CSI) plugin to run Kubernetes workloads.

Automation is a major theme in IT Procurement discussions. The good thing is Automation no longer means programming-intensive and hard-to-maintain scripting. Tools like VMware vRealize Orchestrator (vRO) provides a drag and drop environment to quickly automate infrastructure operations and service delivery tasks. Unity XT supports vRO plugin enabling customers to automate end to end workflows spanning the entire infrastructure stack.

Metro node appliance

Metro node is a hardware add-on feature for Unity XT All-Flash systems that provides true active-active synchronous replication over metro distances. In addition, metro node supports data mobility to non-disruptively relocate workloads to enable storage technology refresh without application downtime. Metro node is also the only solution available that provides true active-active configurations by allowing simultaneous writes at both sites and supports Recovery Point Objective (RPO) and Recover Time Objective (RTO) equal to zero downtime.

Service and support

We continue to expand our Services with a focus on making it easier than ever to purchase, consume, adopt, and optimize technology from a single source. Whether purchasing a single system or planning a transformational expansion across the data center, we're architecting the most adaptive, intelligent service experience — all with less customer effort and an accelerated path to productivity including:

- ProDeploy and ProDeploy Plus: Get more out of technology starting day one
- ProSupport and ProSupport Plus: Comprehensive support for complex environments
- Optimize for Infrastructure: In-depth analysis and strategic guidance to keep systems optimized and configured for peak performance
- Data Migration Services: Move data faster, more securely and with minimal disruption
- And for those customers looking to have their Unity XT storage environment managed by the team that knows it best, our skilled managed services operations experts are ready to help you achieve business outcomes.



[Learn more](#) about Dell EMC Unity XT solutions



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