

# Unity XT Hybrid Flash Arrays

Compelling storage for general purpose workloads

## ESSENTIALS

- **Scalable:** 2U design future proofs your investment; scalable to 1500 drives and 16PB raw capacity with support for 15.36TB SSDs in hybrid and all flash pools
- **Powerful:** Dual-socket Intel™ CPUs, dual-active controllers that drive HA and performance
- **Simple:** Install & configure in minutes with intuitive easy-to-use web based (HTML5) management
- **Efficient:** Inline data reduction for hybrid pools (~up to 2:1)\* and all flash pools (~ up to 3:1)\* providing more effective usable capacity; dynamic pools that lower drive expansion costs and accelerate data recovery
- **Multicloud:** Connect Unity XT HFA with several cloud deployment options to simplify operations, lower costs and reduce complexity.

## BENEFITS

- **Investment protection:** Cost effectively scale systems with online data-in-place controller upgrades
- **Consolidation:** Consolidate mixed workloads (file, block, vVol data) onto a single array
- **All-inclusive:** Every Unity XT HFA comes to you with all-inclusive software making your investment easy to purchase and own
- **DevOps:** Expand Unity XT HFA operations with no-cost DevOps plug-in technologies
- **Flexibility:** Deploy as a physical appliance, software-defined virtual appliance or included in a Dell converged infrastructure
- **Metro Node:** True active-active synchronous replication over metro distances
- 

## DESIGNED FOR PERFORMANCE

Unity XT Hybrid Flash Arrays (HFAs) are compact, fully unified systems supporting NFS, SMB, iSCSI and Fibre Channel protocols that start in a dense 2U form factor, ideal for general-purpose workloads that don't require NVMe/All Flash sub-millisecond latencies. Powered by robust Intel™ dual-socket processors and enhanced controller memory, they deliver incredible all-around performance supported by linear multicore scaling, inline data reduction with zero detect, FAST Cache, and FAST VP software - optimizing performance and efficiency across the array. Unity XT HFAs also feature a dual-active controller architecture for reliable data access and 99.999% system availability.

## OPTIMIZED FOR EFFICIENCY

**Cost Efficiency:** Upgrade controllers to higher-level Unity XT HFAs for increased performance, capacity, and system limits without disrupting online data as well as take advantage of supported data reduction rates for hybrid and all-flash pools.

**Consolidation:** Ideal for demanding environments like databases and transactional processing, Unity XT HFAs provide high capacity enabling IT to consolidate workloads and save space and costs while enhancing data management, protection, and response times.

**Advanced File:** A 64-bit file system scales four times larger than legacy Dell platforms, offering features such as file shrink/reclaim, correlated stats, sync/async file replication with Metrosync failover management, SMB Top Talkers and NAS QoS

**Data Migration:** Simplify migration from legacy Dell systems (Unity, VNX, SC Series, PS Series) with built-in block migration utilities managed through Unisphere. File migration tools are also supported.

## BUILT FOR MULTICLOUD

Unity XT HFAs support cloud deployment options including Cloud Tiering Appliance, Cloud Edition and Microsoft Azure Arc-enabled services:

- **Cloud Tiering Appliance:** an automated policy-based virtual appliance for file tiering and block snapshot archiving to multiple S3-based private and public clouds freeing up valuable capacity and considerably reducing backup windows.
- **Cloud Edition:** a full featured Unity XT software-defined virtual storage appliance with HA, deployed with VMware Cloud Foundation on AWS bringing file services to the cloud and for running workloads such as VDI, Test/Dev, replication services to a third site – and more.
- **Microsoft Azure Arc-enabled Services:** certification for Unity XT extends storage to Azure clouds to run traditional Microsoft SQL & PostgreSQL on infrastructure of choice.

\*Specific configuration and data requirements apply

# Unity XT Hybrid Flash Storage

## SECURE

Unity XT HFAs ensure that data at rest and data in transit are secure. Unity XT prevents unauthorized access to data with security software such as HTTP security headers, remote secure credentials, XML key generation integration, TLS, and data-at-rest encryption across all drives.

## DATA PROTECTION

Unity XT HFAs simplify data protection with native software solutions that include snapshots, thin clones, unified sync/async replication with throttling, snapshot replication, metro node sync replication, data-at-rest encryption, and file-level retention. They also support RecoverPoint for continuous data protection and remote replication.

**Unified Snapshots** – Unity XT HFAs streamline operations with a single interface for managing snapshots and thin clones across block and file storage. UFS64 supports up to 256 snaps per file system and enables thin clones directly from snapshots, which can be replicated, refreshed, applied to vVols, and compared to highlight differences.

**Local and remote replication** – Unity XT HFAs offer comprehensive array-based async and sync replication for block and file, plus RecoverPoint support at no extra cost. Features include snapshot replication for enhanced data protection, async replication with throttling, interface pairing, and full copy avoidance, and sync replication with fan-out and cascading topologies. The HFAs also provide support for Metrosync Manager for automated file-level failover and sync replication over metro distances.

**Dynamic pools** – With Unity XT HFAs, users can configure RAID-protected all-flash or hybrid pools without reserving dedicated hot spares, allowing flexible capacity expansion by adding one or multiple drives at a time, reducing costs. Dynamic pools reserve space for drive failures, separate from usable capacity, enabling faster rebuilds by utilizing multiple drives in the process.

**File protection** Unity XT protects file data with File-Level Retention (FLR), preventing modification or deletion until a specified date. FLR enables permanent, unalterable files and directories, ensuring data integrity. Two retention types are available: Enterprise (FLR-E) and Compliance (FLR-C).

## EASE OF USE

Unity XT HFA's HTML5 Unisphere interface provides enhanced visibility and control, enabling rapid array configuration and deployment. It also supports a REST API for flexible management and automation across Unity XT HFAs and other REST-enabled platforms.

## METRO NODE

Metro node, a hardware add-on for Unity XT HFAs, delivers active-active synchronous replication over metro distances with simultaneous write support at both sites. It enables non-disruptive workload relocation for technology refreshes and ensures zero RPO and RTO for maximum uptime.

## SERVICES AND SUPPORT

Services and Support options are available for Unity XT HFAs, including:

- **Dell ProSupport for Enterprise** offers highly trained experts around the clock and around the globe to address your IT needs, minimize disruptions and maintain a high level of productivity
- **Dell ProSupport Plus for Enterprise** provides proactive and predictive measures to get ahead of problems before they happen.
- **Dell ProDeploy for Enterprise** provides expert planning, installation and configuration to help customers rapidly adopt new technologies and set the organization up for success.
- **Dell ProDeploy Plus for Enterprise** the most complete deployment offer available in the market, ensures you are ready for today and prepared for tomorrow.



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



[Contact](#) a Dell Technologies Expert