

Unity XT HFAs Provide Customers with All-inclusive Software-driven Innovation



Unity XT Hybrid Flash Arrays (HFAs) implement software-driven innovation through a combination of advanced software features and intelligent management capabilities. Overall, they leverage the software to deliver optimized performance, cost-efficiency, data management capabilities, and flexibility. These features help organizations meet the ever-growing demands of modern data storage and management requirements

Unity XT HFA software-driven innovation:

Intelligent Data Placement

Dell Unity XT HFAs leverage software intelligence to dynamically place data across different storage tiers, including flash and disk, based on its access patterns and performance requirements. By automatically moving frequently accessed data to faster storage tiers and less accessed data to slower and less costly tiers, Unity XT HFAs optimize and automate performance and cost-efficiency management.

Data Reduction Technologies

These HFAs employ various software-driven data reduction technologies, such as compression and deduplication for all-flash and hybrid pools. Compression reduces the size of data by eliminating redundancies, while deduplication identifies and eliminates duplicate data blocks. These techniques reduce storage footprint and improve overall storage efficiency, allowing organizations to store more data within the same physical storage capacity

Intelligent Data Management

Dell Unity XT HFAs incorporate intelligent data management features, such as automated tiering and quality of service (QoS) controls. Automated tiering dynamically moves data between different storage tiers based on performance requirements, ensuring the most critical data resides on high-performance flash storage. QoS controls allow administrators to allocate resources to specific applications or workloads, ensuring consistent performance and preventing resource contention.

Intelligent Data Management

Dell Unity XT HFAs incorporate intelligent data management features, such as automated tiering and quality of service (QoS) controls. Automated tiering dynamically moves data between different storage tiers based on performance requirements, ensuring the most critical data resides on high-performance flash storage. QoS controls allow administrators to allocate resources to specific applications or workloads, ensuring consistent performance and preventing resource contention.

Virtual Storage Appliances

UnityVSA and Unity Cloud Edition virtual storage appliances are built on a software-defined architecture, where the storage management and control functions are abstracted from the underlying hardware. This decoupling allows for greater flexibility, scalability, and ease of management and deployment on-premises and in the cloud. Software updates and enhancements can be deployed without disruption, enabling organizations to benefit from ongoing software-driven innovation.

Multicloud Interoperability

Validated designs:

- Unity XT HFAs with block and file storage are validated for use with VMware Cloud Foundation (VCF) enabling you to build your own hybrid cloud that's based on VCF and best of breed components to easily provision storage.

Expand to the Cloud:

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

Consume in the Cloud:

- Unity XT Cloud Edition, a full featured Unity XT software-defined virtual storage appliance with HA, flexibly deploys 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.

Cloud Data Insights

CloudIQ is a no cost cloud-native application that leverages machine learning to proactively monitor and measure the overall health of storage systems through intelligent, comprehensive, predictive analytics. CloudIQ makes it simple to track storage health, report on historical trends, plan for future growth, and proactively discover and remediate issues from any browser or mobile device. CloudIQ is secure and updates are all non-disruptively performed in the Dell cloud.



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



[Contact](#) a Dell Technologies Expert