

MEDIAScaler[™]

High-Performance Converged Media Storage for End-to-End Data Management

Scale-up or Out for Media Workflows • Leading Storage Density Cloud and Active Archive Integrated Tiering • High Performance Clustered NAS

THE MODERN MEDIA WORKFLOW CHALLENGE

In high performance Media workflows, the biggest data management challenges today are growth related: increases in higher resolutions such as 4K, 8K UHD, HDR, IMF and rising camera counts, higher frame rates and format standards like HDR and IMF. Ideally, these challenges would be addressed with a data infrastructure solution that:

- Manages every aspect of the media lifecycle on a single platform
- Offers a choice of performance-capacity combinations
- Is simple to install, configure, manage and scales linearly
- Delivers massive per client performance
- Supports collaborative environments and content distribution
- Supports the latest processor and interconnect technologies
- Maximizes SSD investments

INTRODUCING THE SINGLE SOLUTION FOR END-TO-END MEDIA WORKFLOWS

To overcome never-ending data growth, the MEDIAScaler[™] High-Performance Converged Media Storage Platform delivers a best-in-class solution that allows you to manage end-to-end media workflows within a single platform—across ingest, editing, transcoding, distributing, collaborating and archiving. MEDIAScaler delivers an all-in-one turnkey solution that overcomes scale, performance and cost hurdles, and is simple to install, configure and manage.

With configurations starting under 100TB, MEDIAScaler scales up in capacity or out in performance, locally and remotely, giving you multiple growth options. For simple and straightforward access, MEDIAScaler delivers a range of connectivity options including 1/10/40 Gb/E, Fibre Channel, InfiniBand and protocol support such as NFS, SMB, S3 and OpenStack/Swift. With performance beyond Fibre Channel, MEDIAScaler delivers InfiniBand speeds for parallel file system nodes and parallel media client access.

MEDIAScaler efficiently grows to 100s of Petabytes of capacity and 100s of GB/s, delivering high performance, industry leading density and massive scalability for core workflows. It also provides simple and cost effective automatic data tiering to Active Archive nodes, private/hybrid Cloud and tape—all under a single Global Namespace.

For ultimate control over data proximity and availability, MEDIAScaler provides automated policies that tier data based on your requirements and provides a single file system view of all data—regardless of location. MEDIAScaler delivers high performance archiving options to seamlessly add Cloud nodes for collaborative workflows and high availability. For lower cost archiving, MEDIAScaler also provides the option to add Active Archive and tape nodes for warm and cold data.



Fastest, Most Scalable Media Storage Solution in the World:

- Start from a few GB/s of performance in a single base unit and scale to 100s of GB/s using a building block approach
- Start small and scale to 100s of concurrent media streams
- Capacity starting from 80TB to 7PB/rack, scaling to over 100s of PB
- Delivers up to 6GB/s single stream performance and scales linearly with Parallel Workload Clients

MEDIAScaler BENEFITS

Simplify Management by consolidating workflows onto a single platform

Cloud-Enable Workflows by integrating S3, OpenStack/Swift, and WOS Rest interfaces

Minimize TCO with scale up and scale out options locally - with the industry's highest density storage

Collaborate Seamlessly with geo-distributed sites using MEDIAScaler Cloud Nodes

Scale Effortlessly to 100s of GB/s of performance and PBs of capacity starting with the smallest configuration and scaling non-disruptively with additional MEDIAScaler[™] building blocks

High Performance Parallel Workload Client that scales linearly with Client additions

Achieve Peace of Mind with simplified and automated tape backup, disaster recovery, synchronous and asynchronous replication, and Erasure Coding

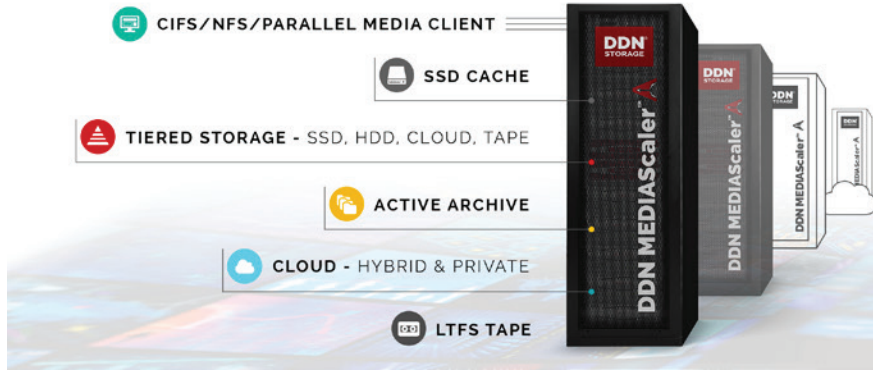
Mix SSDs, SATA and SAS in the same single platform, even in the same enclosure

FEATURED CUSTOMERS



DDN MEDIAScaler™

HIGH PERFORMANCE CONVERGED MEDIA STORAGE PLATFORM CLUSTERED NAS • End2End DATA MANAGEMENT



2x More Density
8x More Speed
20x More Scalable
THAN THE CLOSEST COMPETITOR

TURNKEY SOLUTION

Animate, Render, Edit, Transcode,
Collaborate, Active Archive

PERFORMANCE NODE

PROTOCOLS	NFS v3, SMB; Linux and Windows Parallel Workload Clients
PERFORMANCE	Delivers 100s of GB/s performance & 100,000s of IOPS using a building block approach; single building block delivers up to 42GB/s Accelerated Performance with Advanced Controller Caching, Software Defined SSDs and all-SSD Options
STREAMS	Scales to 100s of concurrent media streams using a building block approach; single building block delivers over 40 4K uncompressed streams
SCALABILITY	From 80TB to 100s of PB using a building block approach
DATA PROTECTION	RAID 1/5/6; up to 256 Snapshots per Volume – policy driven; Snapshot Rollback; DirectProtect and DirectProtect+; Online and Automatic Storage Rebalancing; High Speed Defragmentation
CONNECTIVITY OPTIONS	1/10/40/100GigE Ethernet, 16/32GB/s Fibre Channel, EDR/FDR InfiniBand, Omni-Connect
DRIVES SUPPORTED	SSD, Performance SAS and Nearline SAS

ACTIVE ARCHIVE & CLOUD

CLOUD ACCESS GATEWAY OPTIONS	S3, SWIFT, NFS/SMB, Parallel Workload Clients
MIN/MAX OBJECT SIZE	512B / 5TB
DATA PROTECTION & DISTRIBUTION OPTIONS	Replication (Sync, Async) – up to 4 copies, Erasure Coding w/ Replication, Global Object Assure
FULL LIFECYCLE ARCHIVE CAPABILITY	Support of simplified Digital Tape Storage with Linear Tape File System
NAMESPACE GROWTH	Simple Non-Disruptive Scaling, Auto-Balance, Online Upgrades

LTFS TAPE

PERFORMANCE SERVICE LEVEL AGREEMENTS (SLA'S)	Online, Nearline, Archive
MAXIMUM CAPACITY	Virtually unlimited
FULL LIFECYCLE ARCHIVE CAPABILITY	LTFS tape support for offsite copy and deep archive
DATA PROTECTION	Hash code per file, Tamper checking, Multi-copy

ABOUT DDN®

DataDirect Networks (DDN) is the world's leading big data storage supplier to data-intensive, global organizations. For more than 15 years, DDN has designed, developed, deployed and optimized systems, software and solutions that enable enterprises, service providers, universities and government agencies to generate more value and to accelerate time to insight from their data and information, on premise and in the cloud. Organizations leverage the power of DDN technology and the deep technical expertise of its team to capture, store, process, analyze, collaborate and distribute data, information and content at largest scale in the most efficient, reliable and cost effective manner. DDN customers include many of the world's leading financial services firms and banks, healthcare and life science organizations, manufacturing and energy companies, government and research facilities, and web and cloud service providers. For more information, visit our website www.ddn.com or call 1-800-837-2298.