



GENESIS UNLIMITED

SCALE-OUT NAS & STORAGE

A TURNKEY SOLUTION designed for ease-of-use in Video Post Production, VFX, Broadcast, and Sports

Enterprise File System

HyperFS integrates high-performance SAN, NAS and data protection under one global namespace.



No Per Seat Client Cost

Based on concurrent RAID performance, connectivity, bandwidth, drive count and user requirements

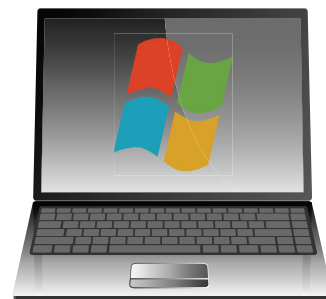
Simple Connectivity

Plug-and-play with easy connectivity options that can be mixed and matched to support 8/16Gbit FC, 1/10/40Gbit Ethernet or iSCSI



Real-time Initiator

Admin can assign guaranteed bandwidth based on user requirements with block level connected clients



Real-time Latency Enhancements with Zero Impact Rebuild

Skip the two slowest drives on read requests, so each user gets smoother playback while also locating slow drives, with rebuilds not affecting performance



No MDC or Switches

Reduces the need for additional servers and connectivity, thereby making storage simpler and more cost effective

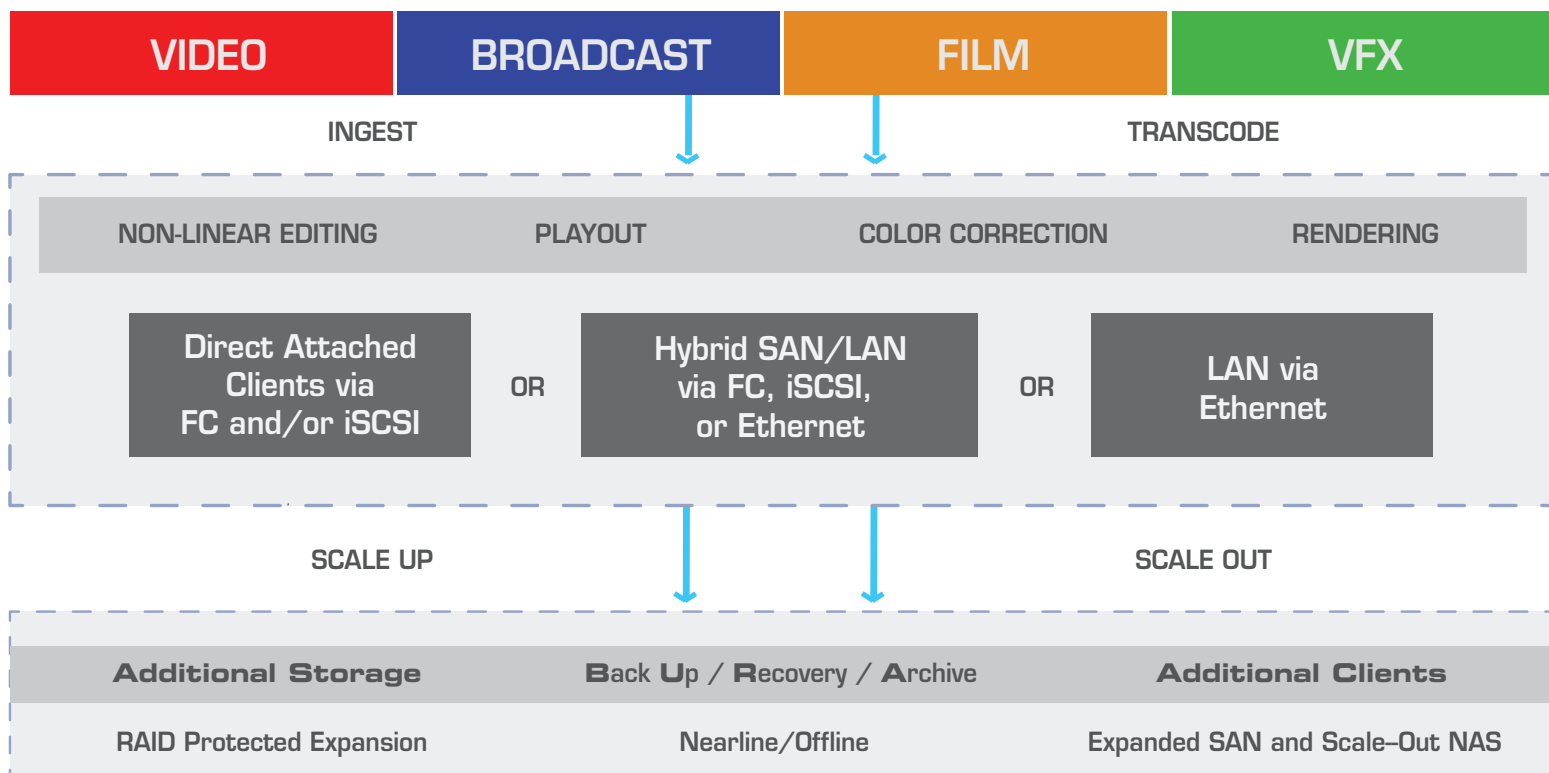
Scalable Performance for CM&E

1600-3400MB/s for single appliance and scalable to over 10GB/s with on-the-fly HyperFS expansion

Works with
Mac, Windows, and Linux

Network Storage Appliance

Genesis Unlimited is a network storage appliance designed for digital media applications and workflows.



Easily scale your workgroup to increase performance and capacity by adding more appliances to your workflow and growing a single file system



Options to enhance your workflow

Scale-Out NAS, Project Asset Management, Metadata Management, Back up, Replication, Archiving, WAN Acceleration

Works with most CM&E applications

AVID, Adobe, FCP, After Effects, Maya, Scratch, Premiere, Nuke, Autodesk, Resolve, and many more

Scalable with Fewer Components

With growing workflows, multiple enclosures can be connected for increased performance, capacity, and expansion into archive and data protection.

12, 24, and 36 Bay Configurations

HyperFS File System Specifications

System Capacity	64 ZB Theoretical Limit
Max number of files/objects/folders	Up to 4,000,000,000 when using 4TB metadata volume
File size	64 ZB Theoretical Limit
File name length	Windows: 255 ASCII characters; Linux/Mac: 255 ASCII characters
Directory depth	Windows: 244 characters Linux: 4096 Bytes
Max number of LUNs	4093
Exported Paths	512
No. of Metadata controllers (MDC)	Up to 2, can be configured in HA mode
Number of concurrent file systems	16
Full redundancy configuration	Supported: No single point of failure
Dynamic file system expansion	Yes, LUNs can be added with no downtime
Supported SAN client OSs	Windows 7 32/x86_64/Win 8, Win 10 Windows 2008/2008_R2/2012/2012_R2/Server 32/x86_64/2016_x86_64 RHEL 5 (Update3-Update10) 32/x86_64, RHEL 6 (Update0-Update8) 32/x86_64, RHEL 7 {Update0-Update2} SUSE 11 SP1-3 OS X 10.7-10.12
SSD Support	Yes

Optional HyperFS Scale-Out NAS Specifications

Number of nodes per cluster	64
Number of clusters	32
Supported Protocols	CIFS/SMBv1.0/v2.0 NFSv2/v3/v4, FTP/FTPS HTTP/HTTPS/WebDAV
Scale-Out Nas OS	RHEL/CentOS 6.7 x86_64
Number of Scale-Out Nas Clients	CIFS clients: 2048 per node, NFS clients: No limit FTP clients: 1GbE 800 clients and 10GbE 1600 clients
Number of shares mounted on client	CIFS on Windows Client: 23 NFS Client: 256
Supported OS of Scale-Out Nas clients	Windows 7/8/10 Windows 2008/2008_R2/2012/2012_R2 Server/2016 Server CentOS/RHEL 4.x ; CentOS/RHEL 5 U1-U8; CentOS/RHEL 6.0-6.8, 7.0, 7.2 Suse11 SP1 OS X 10.6-10.12 Vmware/Hyper-V/KVM FreeBSD-8.2 Solaris10

System and controller features

Chassis	Compact steel and aluminum alloy enclosure with rack mount kit, dual FRU power supplies and fan assemblies and 12Gbps drive backplane, 12 bay (2U), 24 and 36 bay (4U)
Controllers	3.5 GHz Intel 1600 CPU, 12 bay 32GB (2x16), 24 bay 64GB (4x16) 36 bay 96GB (6x16) RAM
Drive Support	(12, 24, 36 HDD or SSD) 3.5-inch SAS 6/12Gbps hard drives in field replaceable canisters 2TB, 3TB, 4TB, 6TB configurations with staggered physical drive spin-up, drive LED support and hot spare or cold spare as required
External I/O Ports	12 Bay base = 2 expandable to 8 24 Bay base = 4 expandable to 16 36 Bay base = 2 expandable to 8
System Cooling	3x8cm hot-swappable cooling fans, redundant cooling

Operational Features

RAID protection	RAID 1, RAID 6, RAID 7.3, RAID 10
Spare Drives	RAID 6/7.3 configuration has 2/3 parity drives and therefore doesn't require a hot spare drive, hot spare capable
Background Activities	Rebuild; SMART drive monitoring; media health monitoring and repair
Media-enhanced RAID	Physical drive error recovery, zero-impact drive rebuild, bad sector re-mapping, SMART

System Management

Supported OS	Windows, MAC OS X, Linux
Management Tools	Embedded web mgmt.. support — No host agent is needed using standard TCPIP; operating system independent; web-based GUI, via Ethernet port; basic CLI configurator and operational utility with monitor, keyboard; Ethernet, RJ-45; SSH; easy-to-use tracing I/O commands, graphing in real-time bandwidth, and uncovering poorly performing drives in the RAID, plus error logs and status monitoring
Management Interfaces	Embedded web server and mgmt... support — no host agent is needed; Ethernet
Event Notification	Email, audible (buzzer), and visible (LEDs) alerts for bad drives and power supplies

Mechanical Specifications

Voltage	100-240 VAC auto-ranging 50-60 Hz
Current (Maximum)	12 A @ 100 VAC; 4 A @ 200 VAC (current rating with two power cords)
Power Supply	12 Bay - dual 920W, 100-240 VAC auto-ranging 50-60 Hz, dual hot swap and redundant with PFC, N+ design power consumption 24, 36 bay - dual 1000W high-efficiency
Power Consumption	12 Bay - 275 Watts, 24, 36 Bay - 523 Watts
Operating Temperature	Operational 10°- 35°C (non-operational -40° +70°C) Relative humidity maximum 90%
Dimensions	12 Bay - Height 3.5" (89mm), Width 17.2" (437mm), Depth 25.5" (648mm) 24 Bay - Height 7" (178mm) Width 17.2" (437mm) Depth 26" (660mm) 36 Bay - Height 7" (178mm) Width 17.2" (437mm) Depth 27.5" (699mm)
Weight	12 Bay - gross weight (including carton) 77 lbs. (35 kg), 24, 36 Bay - gross weight (including carton): 121.5 lbs. (55 kg)



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