



Avid Unity solutions: think in sync

Don't just store your precious media assets; set them in motion with Avid Unity™ shared media networks. Connect every phase of your workflow—from digitizing to delivery, editing to finishing—in a real-time collaborative production environment that gives you and your organization complete control over the most complex, deadline-driven film, video, and broadcast projects.



The Avid Unity philosophy

Your media assets are valuable. Your time is valuable. Your reputation is valuable. So every Avid Unity solution is engineered to do one thing: increase the value of your most important resources. High-performance storage and networking hardware is integrated with a purpose-built, real-time file system to eliminate traditional bottlenecks and streamline production workflows. An Avid Unity solution puts more media in more hands through exclusive features such as real-time file sharing; on-the-fly storage allocation; and intuitive workflow management tools.

Designed to be scalable

The key to successful storage investment is balancing capacity and cost—and having the flexibility to grow as quickly as your needs change. Start with as few as 2 clients and 4 terabytes (TB) of storage or go all the way up to 330 clients and 192 terabytes of storage. Flexible Avid Unity configurations offer outstanding price/performance and worry-free hardware and software scalability—escalating the power of your network as you add storage capacity.

Engineered for real-time environments

Downtime is simply not an option in deadline-intensive post and broadcast environments. That's why Avid Unity solutions are designed for high availability and real-time performance. Avid Unity configurations include proven Gigabit Ethernet or Fibre Channel client connectivity—verified through millions of hours of Avid testing and years of mission-critical field usage. Redundant components and background media recovery provide unmatched reliability and asset protection. And the innovative Avid ISIS™ Engine takes media protection to the next level with intelligent, self-diagnosing blade servers that eliminate traditional points of hardware failure, while reducing recovery time from drive failures by up to 20 times when compared with conventional RAID technology.

“It was very easy to add more machines to our central system, which makes [Avid] Unity a very flexible option for working on these complex films.”

Lee Smith, editor, *Batman Begins*

Avid Unity solutions at a glance

Files keep getting bigger. Deadlines keep getting shorter. And you need the flexibility to respond to any situation. Juggle low- and high-resolution DV, SD, and HD media. Connect 2 to 330 clients. Transform isolated suites and departments into an efficient, collaborative workgroup. Choose the Avid Unity solution designed to meet your precise requirements:

Avid Unity MediaNetwork systems have been re-engineered to provide increased power and unprecedented scalability in a compact, cost-effective storage solution. Ideal for small workgroups and mid- to large-sized post and broadcast facilities, high-bandwidth Avid Unity MediaNetwork systems provide real-time access to both compressed and uncompressed SD and HD media, and enable editing, finishing, audio, and graphics work to take place simultaneously—even on the same files. And support for the Avid Interplay™ nonlinear workflow engine makes secure asset management, production management, and workflow automation available to any size facility.

The new Avid Unity Media Engine all-in-one server and storage chassis simplifies installation and supports both high-bandwidth Fibre Channel and low-cost Gigabit Ethernet interfaces. Start with a 4 TB, 8 TB, or 16 TB Media Engine with storage. As your storage needs grow, simply add Avid MEDIArray™ XT storage modules to extend capacity up to 128 TB. Easy to configure, administer, and expand, Avid Unity MediaNetwork systems support Intel-based Mac systems, Power PC-based Mac systems, and Windows XP and Vista-based systems, and store non-Avid media created with other content creation applications for a whole new level of workflow flexibility.

The **Avid Unity ISIS™** (Infinitely Scalable Intelligent Storage) media network combines the highly scalable Avid Unity ISIS architecture and 64-bit file system. Together, they offer support for up to 330 real-time clients with simultaneous access to as much as 192 TB of storage today—with substantial expansion possibilities planned for the future. Avid Unity ISIS systems provide facility-wide uninterrupted access to media, powerful yet simple management tools, and an open architecture that supports both Avid and non-Avid clients. With highly efficient and reliable delivery and massive storage capacity, plus self-healing technology in the event of a drive failure, the Avid Unity ISIS media network is designed for the most demanding postproduction and broadcast environments.



Facility class solutions

Enterprise class solutions

Avid Unity MediaNetwork

Avid Unity ISIS

Number of real-time clients supported

Up to 46

Number of real-time clients supported

Up to 330

Clients and resolutions

All resolutions, from offline to HD, including:

- Up to 46 single-stream clients at DV25
- Up to 26 dual-stream clients at Avid DNxHD® 145 or 1:1 8-bit SD
- Up to 26 dual-stream clients at Avid DNxHD 220 or 1:1 10-bit SD
- Up to 8 dual-stream clients at 1:1 8-bit HD
- Up to 8 dual-stream clients at 1:1 10-bit HD

Number of clients may vary in an Avid Interplay environment

Clients and resolutions

All resolutions up to 220 Mbps, including:

- Up to 330 dual-stream clients at DV25
- Up to 150 dual-stream clients at DV50
- Up to 60 dual-stream clients at 1:1 8-bit SD
- Up to 72 dual-stream clients at Avid DNxHD 145
- Up to 48 dual-stream clients at Avid DNxHD 220 or 1:1 10-bit SD

Interconnection

Gigabit Ethernet, Fibre Channel (4 Gb)

Interconnection

Gigabit Ethernet

Total available bandwidth

~2.7 GB/sec (actual, under load)

Total available bandwidth

~3.6 GB/sec (actual, under load)

Total amount of storage

Up to 128 TB (64 TB mirrored)

Total amount of storage

Up to 192 TB (96 TB mirrored)

Video subsystem support

Avid DX, Avid DNA™, Meridien™*

*Support included up to version 5.0.2

Video subsystem support

Avid DX, Avid DNA, Meridien

Real-time client support

Avid DS Nitris®, Avid Xpress®, Avid Xpress Pro, Film Composer®, Avid Instinct®, Media Composer®, Media Composer Adrenaline™ family, Avid Media Composer DX, NewsCutter® Adrenaline, NewsCutter Effects, NewsCutter XP, Symphony™, Symphony Nitris

Real-time client support

Avid DS Nitris, Avid Xpress, Avid Xpress Pro, Film Composer, Avid Instinct, Media Composer, Media Composer Adrenaline family, Avid Media Composer DX, NewsCutter Adrenaline, NewsCutter Effects, NewsCutter XP, Symphony, Symphony Nitris

System options


AirSpeed®, Avid Archive™, Avid Interplay family, DMS ProEncode™, Nearchive™

System options

AirSpeed, Avid Archive, Avid Interplay family, DMS ProEncode, MediaManager, Nearchive, TransferManager



Each intelligent Avid ISIS Storage Blade is a mini server including disks, processor, memory, and networking. The storage blades communicate with one another, constantly balance loads, and redistribute data in the case of drive failure.



“With Avid Unity we can work on multiple shows simultaneously and easily access shots from other episodes ... I don’t know how a television series today would work without it.”

Jonathan Posell, editor, “Desperate Housewives”



As post houses, broadcasters, and schools wrestle with rapidly growing volumes of material, they are relying on networked storage to help them manage their media, meet increasing demand, and give them a competitive advantage in a fast-moving market. Avid Unity media networks provide media professionals the freedom to be more creative with:

- Immediate, facility-wide access to offline and online media
- Simultaneous file sharing for real-time collaboration
- High availability
- Easy-to-administer media libraries
- Integrated media management options

With more than 4,000 installations worldwide, the Avid Unity family of shared storage solutions continues to set new standards in real-time performance, configuration flexibility, and reliability, with a range of scalable systems designed for workgroups of every size—from post boutique to broadcast network. The family offers proven Avid Unity file system architectures, the ability to configure multiple levels of media protection and component redundancy, and unmatched support for Avid editing and finishing systems.

Avid Total Services

Comprehensive and customizable

Training Services

Avid offers personalized training 24/7 worldwide. From the basics of digital video editing to advanced instruction in administrating, configuring, and troubleshooting, award-winning Avid Training Services combine the best of classroom and self-paced learning. Training is conveniently available at your site, at Avid headquarters, in Avid Authorized Education Centers around the globe, or online anytime, anywhere.

Support Services

A dedicated Avid team can tailor a support solution to meet your unique system and budget requirements, from testing and implementation through ongoing maintenance. When you call Avid for support, you get an Avid employee to work with you until the problem is resolved, ensuring unmatched expertise and absolute accountability.

Consulting Services

Avid experts are eager to share their industry-leading expertise with you. Vision, digital know-how, and knowledge of best practices ease the planning, integration, and operation of your systems. Let Avid shoulder the responsibility of keeping your technology current and ensuring maximum return on your investment.

To learn more, visit www.avid.com/unitysolutions or contact your local Avid office.

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