



SANS Media Servers On Demand Delivery of Instructional Digital Content



Determining Your Storage Needs

Typically the amount of disk storage necessary is calculated based on the amount (in hours) and type of audio/video and other digital teaching materials that you have.

Example:

One hour of MPEG1 video at 1.5 megabits per second (Mb/s) requires .67GB of storage. (This can be rounded off to .7GB per hour.)

If you have 500 hours of MPEG1 video in your Content Library the storage space required would be calculated this way: 500 hours x .7GB/hour = 350GB storage space.

We will work with you and your IT staff to determine the server configuration that will best suit your needs.

Efficient storage, management, and delivery of audio, video and other digital materials are vital. Your students and teachers can benefit immensely from a rich, in-house media library. SANS provides media servers that are scalable and configurable to address any size storage need.

Your existing content now has a central repository where every instructor can easily access digital materials on-demand, as opposed to having content on a multitude of individual tapes, DVDs, CDs or other media. SANS servers can also efficiently store student digital language portfolios as they progress through their course of study.

The Technology

SANS Servers use RAID 5 (Redundant Array of Independent Disks, Level 5) technology. Content delivery performance as well as fault tolerance benefit from this technology scheme helping to ensure that your digital teaching materials are readily available and protected.

- Provides real-time data recovery with uninterrupted access if a hard drive fails
- Increases system uptime and network availability
- Protects against data loss



Media Servers

Product Specifications

Server CPU	Single and Dual CPU SANS Servers are available.
Network Connection	The SANS Servers include an on-board network connection selectable at 100 megabit or 1 GB. High performance fiber and copper network cards are optionally available.
RAID 5 Requirements	<ul style="list-style-type: none">• SANS Servers use RAID 5 (Redundant Array of Independent Disks, Level 5). The RAID scheme provides benefits in both fault tolerance and delivery performance.• To guarantee an acceptable level of throughput, a minimum of four and a maximum of seven disks are required.• In RAID 5, the equivalent of one disk is necessary to support redundancy.• All disks in the array must be the same size.
Server Licenses	<ul style="list-style-type: none">• Microsoft Windows® 2008 Server software licenses must be purchased.• The OS is loaded on the boot drive and is delivered with five server licenses.• You will need to obtain additional licenses for over five student seats.
Guaranteed Throughput	SANS guarantees sustained streaming throughput for 300 simultaneous users of MPEG1 video at a data rate of 1.5 Mb/s or a total of 650 Mb/s.
Power Supply	SANS highly recommends that an Uninterruptible Power Supply (UPS) be used in the server setup.
Additional Hardware	SANS servers do not include a monitor, keyboard, and mouse. These must be purchased separately.
Physical Setup	SANS servers are rack-mountable or can be installed in a cabinet.
Encoding	In addition to the SANS media servers, we offer systems to encode video. Please ask your SANS representative for more information on systems/pricing/availability.