

# Network Strategies & Hardware Solutions

## EDUCATOR EXPERIENCE WITH VIDEO

GOOD

BEST

### Streaming & Downloading via the Internet

#### With No Restrictions

Ideal for high-bandwidth areas.

Videos delivered from Discovery Education are encoded at 256K to 1+MB. Depending on streaming options, five simultaneous streams could consume most of a T-1 line. With many students, teachers, and administrators, it is possible to have moments during the day where video streaming may consume a high portion of your Internet bandwidth.

#### With Some Restrictions

Discovery Education Blocktime Editor\* allows you to set streaming and/or downloading hours. Educators will be notified through Discovery Education of their downloading permissions. Settings for Blocktime Editor may be different for every school.

### Locally Host Content With Your Own Server

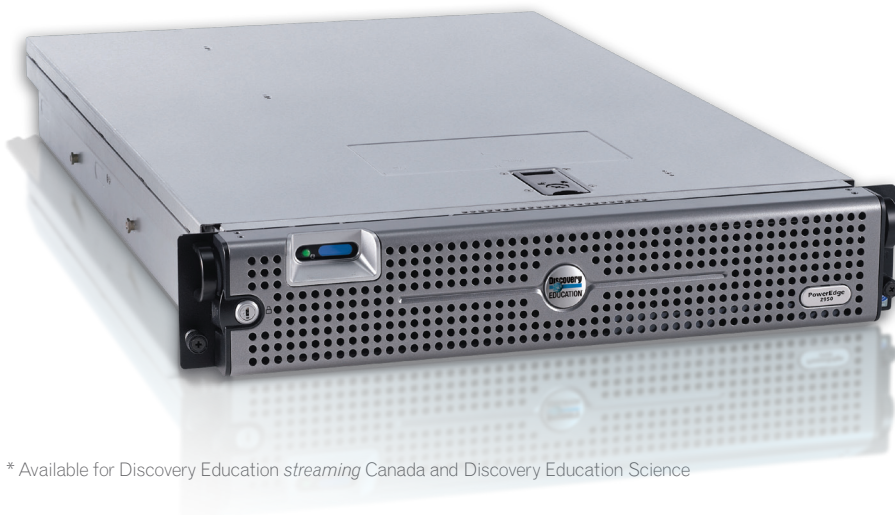
The Local Host Solution lets schools stream and download Discovery Education video directly from a local server rather than from the Internet, eliminating concerns related to Internet connection speed. The complete Discovery Education digital-video library is stored on a local server.

Price: \$4,500–6,995  
depending on configuration

### Reduce Internet Traffic with Network Manager Software\*

Used in conjunction with the Local Host Solution, you can further reduce the impact to your network with Network Manager software. Network Manager software transfers video files to a local computer or server via overnight or off-hours delivery. Videos downloaded with Network Manager software are made available to educators through the normal Discovery Education interface.

Price for Software: \$295 per installation



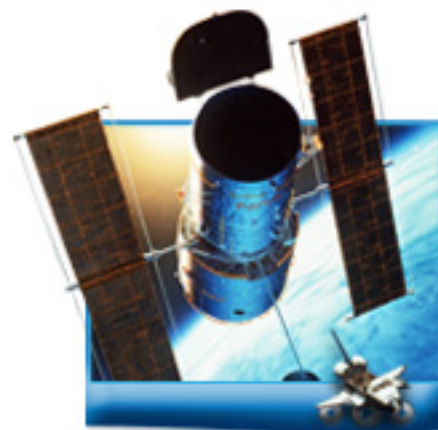
\* Available for Discovery Education *streaming* Canada and Discovery Education Science

## Local Hosting of Video Content with Discovery Media Servers or Existing School-Owned Servers

Access Discovery Education video content from your LAN/WAN. A web server with storage space is required

*"We were excited to see our educators use Discovery Education streaming more with students as a result of Locally Hosting video content. The reliability and speed of the streaming videos through the local host option is a great investment for a District if you are looking for resources streamed to classrooms when you need them."*

John Loree  
 Director of Curriculum, Lethbridge School District # 51  
 Lethbridge, Alberta, Canada



Storage Requirements for Video	Discovery Education streaming Canada Plus	Discovery Education streaming Canada	Discovery Education Science
Windows 256-300K/QuickTime 256K	1.4TB	1.1TB	NA
Windows 700K-1MB+ /QuickTime 1MB+	7.1TB	5.2TB	NA
Flash	1.1TB	1.4TB	NA
<b>Total</b>	<b>9.6TB</b>	<b>7.7TB</b>	<b>1.2TB</b>

Note: All numbers reflect summer 2010.

Note: Only videos are stored on local servers. Currently all other asset types are streamed via Discovery Education servers.

### Advantages of Locally-Hosted Content

- > Use your LAN/WAN to deliver video content rather than the Internet.
- > Content server is kept up to date when new videos are released by the Network Manager software. New videos are transferred via an overnight process.
- > Discovery Education video content is hardware neutral and works with a variety of servers.

### Sample Server Set-Up

- > 1 ghz dual processor or faster
- > At least 1GB ram
- > 10/100 or GB nic
- > Web services: Windows 2003 IIS (preferred), Apache,™ or other Web services
- > Firewire Card: content is easily loaded from a firewire drive.

### Server Setup Process

Firewire drives are required for the loading of content onto the servers.

Discovery Education will load content on the firewire drive(s) and mail them to you. The school or district needs to provide Discovery Education the URL for your web server. After the content is loaded onto the server, notify Discovery Education at 800-323-9084 and back-end updates to Discovery Education services will be made so you may access content locally.