Discovery Education
Network Strategies & Hardware Solutions

**EDUCATOR EXPERIENCE WITH VIDEO**

<table>
<thead>
<tr>
<th>GOOD</th>
<th>BEST</th>
</tr>
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**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: $4,000–6,000 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

**Locally Host with Discovery Multi-Format Media Server**
Experience higher image quality, quicker response, and increased bandwidth efficiency by combining powerful and reliable delivery hardware with Discovery Education services.

<table>
<thead>
<tr>
<th>Discovery Multi-Format Media Server</th>
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<tbody>
<tr>
<td>Total Number of Discovery Education Titles*</td>
</tr>
<tr>
<td>256K (Storage Required)</td>
</tr>
<tr>
<td>700K–1+MB (Storage Required)</td>
</tr>
<tr>
<td>Add Local Content</td>
</tr>
<tr>
<td>Automatic Content Updates*</td>
</tr>
<tr>
<td>Hardware Configuration</td>
</tr>
<tr>
<td>Editable Content</td>
</tr>
<tr>
<td>Recommended for</td>
</tr>
<tr>
<td>Price3 K-12 per building (or server installation)</td>
</tr>
</tbody>
</table>

* Available for Discovery Education streaming and Discovery Education Science

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1 Number of titles may vary based final terms of contract
2 PowerMediaPlus updates made via FTP (not automatically)
3 Annual DiscoveryEducation.com subscription fee not included
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. Discovery Education streaming became an even more valuable resource for our classrooms because of the decision to locally host content.”

Ed Stolze, Director of Information Systems and Technology
Creighton Elementary School District, AZ

<table>
<thead>
<tr>
<th>Storage Requirements for Video</th>
<th>Discovery Education streaming Plus</th>
<th>Discovery Education Science</th>
<th>Discovery Education Health</th>
<th>Discovery Education PowerMediaPlus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Titles</td>
<td>9,000</td>
<td>1,250</td>
<td>600</td>
<td>3,500</td>
</tr>
<tr>
<td>Windows 256-300K/QuickTime 256K</td>
<td>1TB/1TB</td>
<td>NA</td>
<td>NA</td>
<td>600GB/450GB</td>
</tr>
<tr>
<td>Windows 700K-1MB+/QuickTime 1MB+</td>
<td>9.5TB</td>
<td>NA</td>
<td>NA</td>
<td>1.2TB</td>
</tr>
<tr>
<td>Total</td>
<td>11.5TB</td>
<td>1.2TB</td>
<td>500GB</td>
<td>2.3TB</td>
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Note: All numbers reflect end of 2009.
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 (not available for PowerMediaPlus - new videos are provided via FTP).
› Discovery Education video content is hardware neutral and works with a variety of servers, including the Discovery Media Server.

Sample Server Set-Up

› 2 GHz dual processor or faster
› At least 4 GB ram
› 10/100 or GB NIC
› Web services: Windows Server 2003 or newer utilizing 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.

Snapshot Success with Locally-Hosted Content:
Creighton Elementary School District, AZ

<table>
<thead>
<tr>
<th>Total Views</th>
<th>2005-06</th>
<th>2006-07 (Post Local Host Solution)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>14,073</td>
</tr>
<tr>
<td></td>
<td>5,627</td>
<td>11,446</td>
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Usage Triples with Local Host Solution

Discovery Education streaming Plus
Discovery Education Science
Discovery Education Health
Discovery Education PowerMediaPlus

Storage Requirements for Video

Windows 256-300K/QuickTime 256K
Windows 700K-1MB+/QuickTime 1MB+
Total

Number of Titles
9,000
1TB/1TB
9.5TB
11.5TB
1,250
NA
NA
1.2TB
1,250
1.2TB
500GB
2.3TB

Discovery Education streaming
Usage Triples with Local Host Solution

Total Views
18,000
12,000
6,000
0

School Year
2005-06
2006-07 (Post Local Host Solution)