

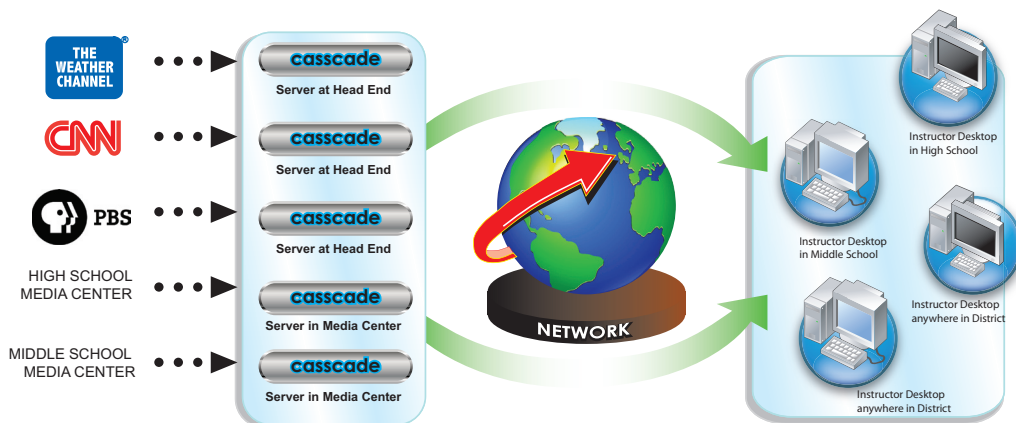


cascade cascade cascade

District-Wide Video Over Your Network

The coax-based television distribution system solution has provided for a cost effective means for delivering cable tv, satellite broadcasts, and even tape & dvd sources from within a school building. However, the rapidly declining condition of the installed systems coupled with limited availability of support for maintenance and new installations is presenting significant obstacles that are guaranteed to grow.

- Coax-based systems cost an average of 100k per school to install. (MATV scope= +/- 70k, Electrical= +/- 15k, TV/VCR/ Wallmounts= +/- 20k)
- Coax-based systems provide only base-band & do not allow for higher resolution and higher quality signal distribution.
- Coax-based systems are costly and difficult to maintain.



**CASCADE's District Video Solution provides
a means for distributing video over your network.**

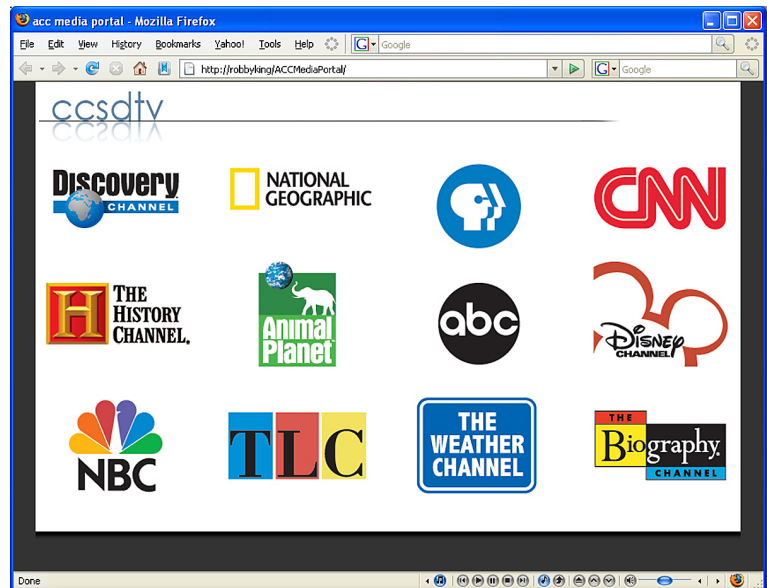


In cases where network infrastructure (available bandwidth, QOS topography and efficiency, etc) allows for allocation of reasonable sized channels, it is recommended that a hybrid centralized and satellite based system be integrated allowing for traditional CATV channels as well as media-center based recorded programs to be viewed from an instructor's desktop.

TSAV provides for Cascade Video Server systems that may be configured to act as IP-based video modulators. Traditional CATV tuners (demodulator) to modulator relationships are replaced with CATV Tuner to Encoder relationships. CATV tuners are set to preset channels and driven into encoders. The encoders are then configured to allow for district wide users to access related streams. In general, 100mb throughput allows for a district head end to be effective.

Within each school a single Cascade Video Server is configured to allow for the local media center to provide playback of content from within that school. This portion of the system configuration allows for continued use of content from within the school and addresses the "VCR Tape dilemma" that is common in similar applications.

- Save \$100,000.00 per school after initial investment
- May qualify for FEDERAL GRANT PROGRAMS
- Eliminate VCRs in the Classroom
- Integrate with classroom computer/projector and Smartboard/Activeboard
- Allow for district head end control of television channels
- Local media specialist can still input content "from the media center"
- Integrates with digital content provider systems such as Safari Montage & United Streaming.
- Standard implementation includes integration with your network login systems. No additional login required. Channels & content can be made available by network assigned permissions.



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