

Enterprise IP Video

LTI DataComm Practice Area Overview

Deliver secure, DVD quality video and audio to hundreds of users over a standard switched Ethernet network at the press of a button. The video can be viewed full screen or can be adjusted to any size so that personnel can continue to use PC applications while watching important news, participating in training, or monitoring in secure environments. In addition, video can be recorded to a PC hard drive for storage and viewing on-demand. Store video broadcasts, distribute training video to remote locations, or use video over IP in conjunction with wireless networks to provide monitoring and surveillance solutions.

Through standards-based technology, techniques, and products that deliver very high quality audio and video, as well as conventional data, over networks, LTI DataComm's video solutions effectively combine the latest video compression technology with state-of-the-art networking.

VIDEO ON DEMAND

EtherneTV has revolutionized the capture, delivery, storage and management of video over local area networks and the Internet. EtherneTV is an enterprise-wide solution composed of a set of scalable, industrial strength, network-aware appliances that allows organizations to build a video infrastructure on top of any existing IP network. EtherneTV supports the most widely deployed digital video formats, including MPEG-2, MPEG-4 and now Windows Media. The EtherneTV architecture is unique in its ability to allow organizations to choose "the right technology for the right application" by drawing on the advantages of each technology. At the same time, EtherneTV presents clean and simple interfaces to end users, making the system extremely easy to use.

DISTANCE LEARNING

LTI DataComm offers a robust, customizable set of video solutions for distance learning and on-demand learning applications. Whether the goal is a simple point-to-multi-point video session or an advanced video-on-demand suite, LTI DataComm has a learning solution for you. An all digital video distribution system, EtherneTV allows the end-user to distribute live, stored, or scheduled video seamlessly to classroom PCs, Macs, and TVs over the existing computer network. It eliminates the need for video tape, VCRs, coax analog video, and DVDs. This system is also perfect for distance learners connecting via the Internet.

DELIVER LIVE NEWS TO PCs OVER IP NETWORKS

LTI DataComm's network video solution can deliver DVD quality video and audio to hundreds of users over a standard switched Ethernet network. The video can be viewed full screen or can be adjusted to any size so that personnel can continue to use PC applications while watching important news. In addition, the video can be recorded to a PC hard drive for storage and viewing on-demand.

VIDEO OVER IP COMPONENTS

Video Over IP (VidolIP) systems have several basic building blocks. These different combinations of appliances and servers provide an integrated system able to meet many of today's information sharing needs.

An encoder is a device that takes a video source, digitizes and compresses the video signal, and delivers it over an IP network. A decoder is a device that receives this compressed video stream, decompresses the digital video signal, and converts it to analog for display on a television, projector, or plasma display.

Technology Overview



Stream and Store Digital Video Over Your IP Network

- Live/Stored Cable TV
- Training and Distance Learning
- Archival Video
- Stored Surveillance Footage
- DVD-Quality Exercise Media
- AD-HOC VTC

Technology Overview



User Interfaces

Client PC Requirements (Windows)

- Windows 98/2000/XP
- Microsoft IE 6.0 or higher
- Video Codec released by the manufacturer

Client PC Requirements (Mac*)

- Mac OS X with Safari 1.0 (or higher) or FireFox for Mac 1.0.4; QuickTime Player 6.0 or higher.

Server Requirements

- Windows 2000 Server or Windows 2003 Server (Service Pack 1 required)
- Pentium IV or Xeon Processor 1.26 GHz minimum
- RAM 512 MB minimum
- Hard Drive 36 GB minimum

LTI DataComm

23020 Eaglewood Ct. #100
Sterling, VA 20166
www.ltidata.com
800-677-5050

GUI Servers- Provide a simple interface to easily locate available Live and On Demand media assets on Windows PCs, Macs, and Set Top Boxes. Users can navigate and search for specific videos, select the video, and it immediately begins playing. For On Demand videos, users have full Fast Forward and Rewind capabilities.

- Simple user interface for Live, On Demand, and Scheduled video
- Full screen video (up to DVD quality)
- Fully customizable and searchable database

Some systems provide the additional following features

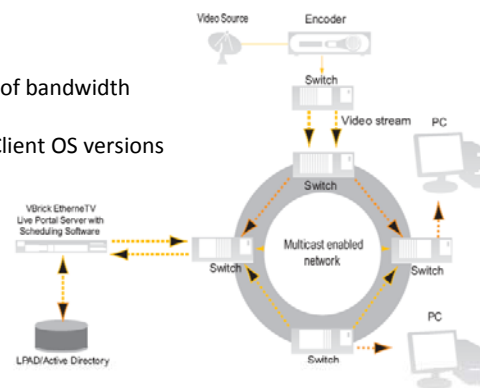
- Closed captioning display
- Access Control with LDAP support and Single Sign On (SSO)
- Clustering support for multiple VoD servers
- Diagnostic functionality for troubleshooting

Video Encoders or CODECs-The encoder is the basis for any IP Video network. The encoder converts analog (NTSC,HD, and PAL) in to an IP data Packet. Encoder and decoder appliances are available in industry standard MPEG-2, MPEG-4, and Windows Media formats. Our MPEG-2 appliances are used for delivering low delay, DVD quality video over high bandwidth networks. Our MPEG-4 appliances are used for delivering low delay television quality video over low and medium bandwidth networks. Windows Media appliances are used to deliver the widely deployed Windows Media format over low and medium bandwidth networks with little configuration effort. These products are available in one and two channel configurations, as well as a combination encoder/decoder that delivers two-way interactive video (MPEG-2 and MPEG-4). An optional hard drive allows the video to be recorded at the source.

- Digital encoding of analog video
- Simple web based configuration
- Multicast support for more efficient use of bandwidth
- Low bandwidth internet streaming
- Interoperability with most viewers and Client OS versions

FEATURES

- Quick and easy to setup system; control access with little ongoing maintenance
- Ubiquitous from PCs, Macs, and Set Top Boxes
- Zero network performance impact
- Distribute and schedule live and stored video
- 5 nines reliability to users after setup
- Intuitive interface simplifies search, viewing and scheduling of live and stored video
- Low delay allows real time viewing
- Manage access control and privileges for access security



H.264

We can now deliver video in a wide range of quality from 3G to HD over any network infrastructure. The new H.264 appliances promise vastly improved quality to deliver an even better customer experience for any given bandwidth. Our encoders provide incredible video quality at lower bit rates and supports High and Standard definition videos.

RICH MEDIA STUDIO

Now with Rich Media Studio you can create dynamic presentations. Rich Media Studio is an “all in one” device that captures and delivers live presentations and records them for on-demand playback over IP networks. With this single device you can create presentations using pre-configured templates and its convenient audio/video mixers with touch screen capability that makes the Rich Media Studio presentation more dynamic and very easy to use. Rich Media Studio combines both the video and xGA/DVI captures into one video stream and delivers them live or on-demand with enterprise-wide distribution.