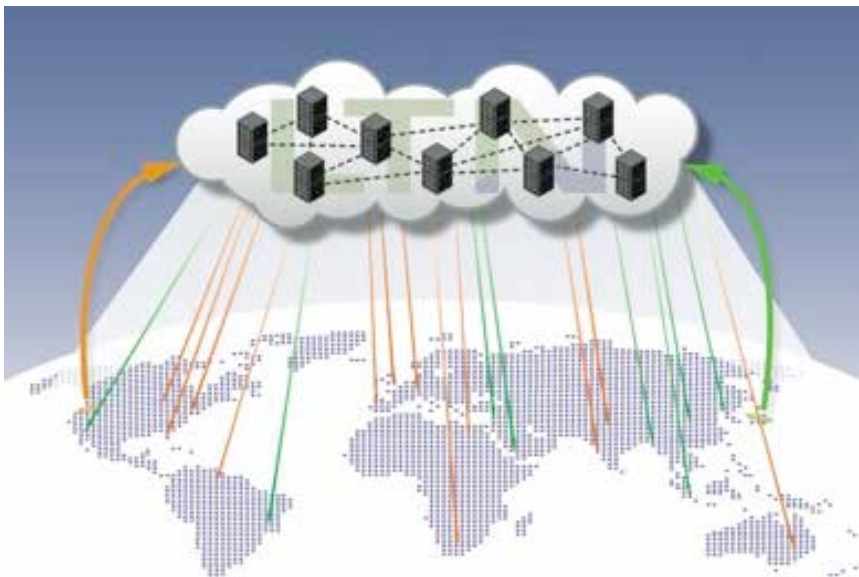


### Broadcast Quality Live Video Transport Solution

LTN's Global Video transport solution enables professional broadcasters to deliver live video content cost effectively from any location to any number of locations around the world. The unique, fully managed service utilizes a highly redundant and controlled network, designed specifically to provide a virtually instantaneous live experience. LTN has built a reputation as an advanced, flexible and reliable solution that meets stringent performance standards.

The service empowers broadcasters to:

- Deliver live content affordably and flexibly from one to many locations simultaneously.
- Reach a wider global audience.
- Maintain a flawless, reliable signal with exceptional high quality and reliability.
- Add video streams rapidly and cost-effectively to address the unique needs of diverse audiences.



**The LTN *managed network*:** Video is sent from any geographic location. The video stream travels over the proprietary, highly redundant LTN global network and is immediately and reliably transmitted to any number of receivers, anywhere.

#### Service Benefits

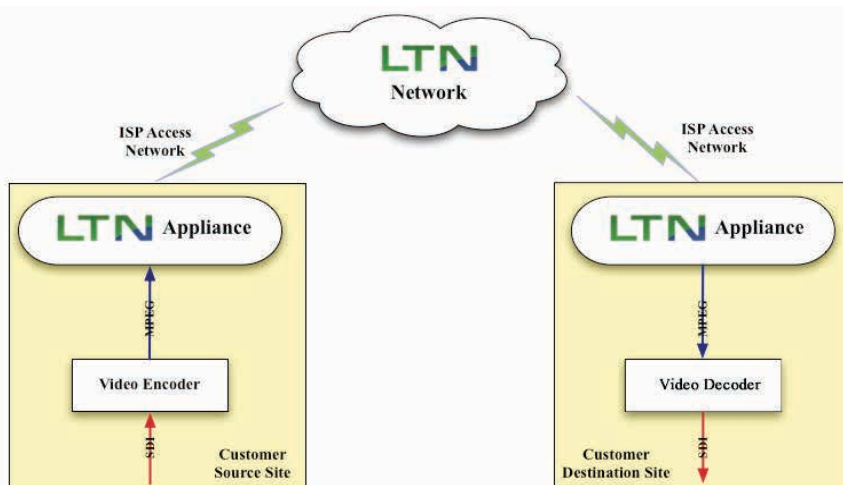
- A fully managed, highly reliable video delivery solution
- Supports both full time and occasional use
- Offers flexibility without capacity constraints – provides the capacity needed on-demand
- Distributes video feeds from any source to any number of destinations
- Provides an exceptional live viewing experience
- Globally available from any location that has sufficient Internet access
- Easy set up and management
- Rapid installation time

#### Service Details

- Supports any bit rate
- Supports SD, HD and 3D
- Over 99.999% reliability
- Less than 200 msec end-to-end latency
- Supports point-to-point and point-to multipoint
- Add and remove channels instantaneously
- Content protection available
- 24x7 active monitoring and support
- Built-in full redundancy

## LTN's Video Transport Network

LTN's video transport solution is a powerful and highly scalable service, engineered to provide uncompromising quality, reliability and performance. The service utilizes the LTN Network, a proprietary, intelligent, managed and controlled global network of super-nodes that are connected together via multiple, redundant Tier 1 multi-gigabit IP backbone links. The LTN Network employs sophisticated, real time decision-making algorithms to seamlessly route video traffic on the best paths, recover lost packets instantaneously, and maintain flawless, continuous service under stringent performance guarantees.



## Connecting to the Service

LTN's video transport solution utilizes a local LTN appliance that is installed at every endpoint for stream transport (both source and destinations). The appliance is shipped pre-configured and has a simple plug-in and power-on setup. Once the appliance is installed and connected to the Internet, it automatically connects to the LTN Network. It is then ready to both transmit and receive reliable video signals. The LTN network and all installed appliances are monitored and managed on a 24/7 basis by LTN Global Communications staff.

## Additional Features

The LTN appliance is a multi-functional and very flexible edge device for the LTN network. In addition to terminating a single channel the appliance supports multiple concurrent channels with the only hardware requirement being sufficient encoders or decoders to support the channels. The appliance is also available in a redundant pair mode (1+1) with automatic sub-second failover. Multiple ISP links can be provided to the appliance and it can use them to provide redundancy and failover or to increase capacity. Optional content protection employs state of the art encryption mechanisms to protect each of the video streams.

## Technical Requirements for Customer Site LTN Appliance

Installation of the LTN appliance requires:

**Space:** 1 U's of 19" rack space in a well air-conditioned space.

**Power:** 1-2 circuits of 120-240 V power. Depending on the model the appliance will draw at least 200W and ideally has each power supply connected to a different circuit.

**Network access:** The Internet bandwidth should be sufficient to support your planned channels.

**Video Encoder or Decoder:** The encoder or decoder has to support a MPEG2-TS (transport stream) over IP/UDP for the encoded output/input over a standard Ethernet (100Base-T or 1000-BaseT).

\* The above requirements are for basic installations. Additional power and space may be required if additional features are enabled.

## LTN Global Communications

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