

## LTN Live Video Transport Solution For Occasional Use

## DATA SHEET

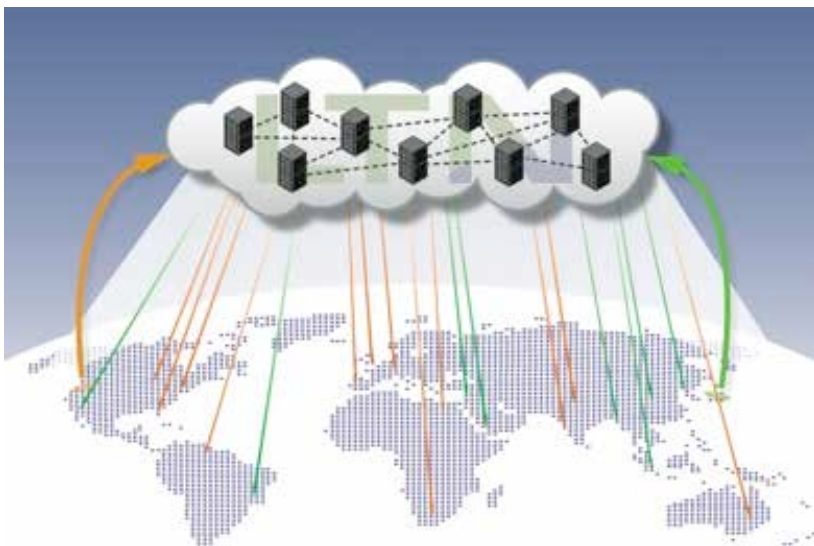
LTN's live video transport service enables professional broadcasters to deliver live video content cost effectively, from any location to any number of locations around the globe. The service provides exceptional high quality and reliability and meets stringent performance requirements.

### Service Benefits

- A fully managed, highly reliable video delivery solution.
- Offers flexibility without capacity constraints – provides the capacity needed on-demand.
- Enhanced web-based real-time scheduling for distribution of video feeds from any source to any destinations.
- Provides an exceptional live viewing experience.
- Easy to set up and manage, with rapid installation time.
- Globally available from any location that has sufficient Internet access.

### 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
- Events can be added instantaneously
- Content protection available
- 24x7 active monitoring of flows and support



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

### Convenient Online Scheduling

The web-based scheduling interface enables instant customer scheduling, for real time or future events. Simply schedule the event and it is immediately ready to be sent from the source to the desired destinations, at the appointed time. Additionally, LTN's dedicated customer support is available 24x7 to help schedule or answer questions.



### Customer Traffic Monitoring

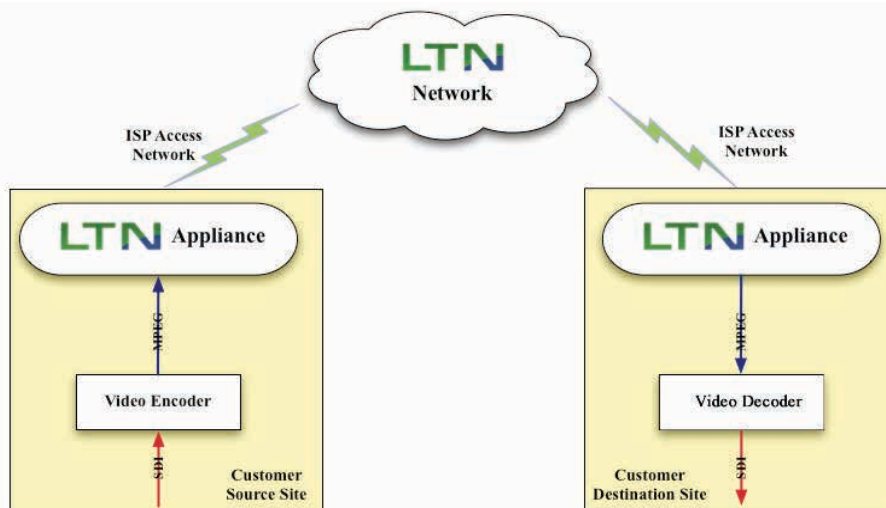
The web based real-time monitoring tool displays the status of every one of the sources and channels available to the customer, and provides a detailed report on each video flow.

This screenshot shows the 'Channels Status Table' in the LTN Monitor web interface. The table provides a detailed report on each video flow, including channel names, input rates, receiver counts, and status indicators.

Channel Name	Input Rate	Receivers	Source	LTN-Cloud	Receivers	Alarms	Detailed Channel Status
Studio-1-Chicago	443 kbps / 4.7 mbps	0	●	●	●	0	● Growth View Table View
Studio-1-Miami	336 kbps / 3.5 mbps	0	●	●	●	0	● Growth View Table View
Studio-1-Paris	437 kbps / 4.6 mbps	1	●	●	●	0	● Growth View Table View
Studio-1-Tokyo	382 kbps / 3.7 mbps	0	●	●	●	0	● Growth View Table View
Studio-1-Delhi	664 kbps / 7.0 mbps	0	●	●	●	0	● Growth View Table View
Arava-1-Boston	949 kbps / 10.0 mbps	2	●	●	●	0	● Growth View Table View
Arava-2-Toronto	433 kbps / 4.3 mbps	0	●	●	●	0	● Growth View Table View

## 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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