LTN *SmartCloud* Live Video Distribution
For Occasional Use

The LTN *SmartCloud* solution enables professional broadcasters to deliver occasional use content globally, and cost effectively, from any location to any number of locations. LTN maintains exceptional high quality, reliability and low latency meeting stringent 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 SmartCloud: Video is sent from any geographic location. The video stream travels over the proprietary, highly redundant LTN global SmartCloud network and is immediately and reliably transmitted to any number of receivers, anywhere.*
The SmartCloud Technology

The LTN SmartCloud is a powerful and highly scalable media transport service, engineered to provide uncompromising quality, reliability and performance. The SmartCloud 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

The Smart Cloud solution is provided by the LTN network, combined with 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, it automatically connects to the LTN Network. It is then ready to both transmit and receive reliable video signals. The LTN SmartCloud solution provides a fully managed and controlled service. 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 SmartCloud. 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 SmartCloud 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.