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Why Apply IP to Live Production Now?

IP is NOT a new technology even in the AV industry:

– Monitoring / Controlling / File transfer (File-based System)

Live Production may be the last challenge for IP because it requires:

- Real time operations with minimum latency
- Synchronous processing
- Video stream switching without picture disruption

Technology improvements are now resolving these challenges:

- Rapid increase of available network bandwidth
- Introduction of sub-microsecond-accurate time distribution protocol
 - IEEE1588 PTP (Precision Time Protocol)













































Clean Video Switching

Four steps are used in order to realize the 'clean video switching':

- 1. Frame Information Insertion
- 2. Rough Video Switching
- 3. Clean Video Switching
- 4. Synchronization between input signals and output signals



































































