

Transcoding for SatCom

Cost effective approach
to optimization

Cost effective Transcoding

- Advanced software solutions running on off the shelf servers
- Linux based OS and applications
- In depth understanding of the Pentium processors
- Years of experience in digital video encoding and transmission

Video Transcoding

- Re encoding digital video
- MPEG-2 to H.264 - Reduce bit rate
 - MPEG-2 Standard Definition broadcast quality –
~2.5Mbps
 - H.264 - Standard Definition broadcast quality –
~1.5Mbps
 - HD – from 19M to 5M
- **Maintaining video quality !!!**

Video Transcoding

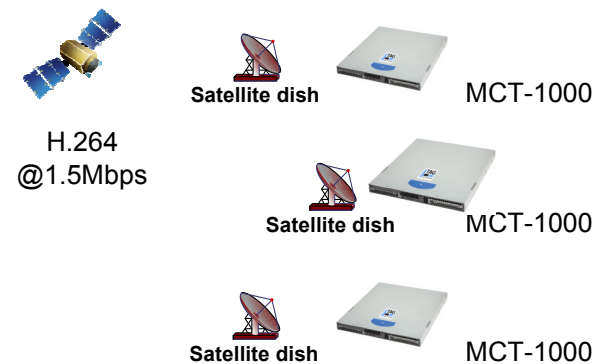
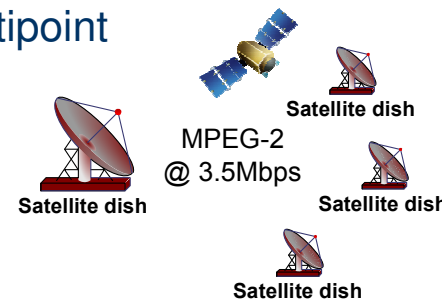
- MCT-1000 - Multi channel transcoder
 - Professional broadcast quality
 - From 2 (MCT-1020) to 8 (MCT-1080) channels per 1U server
 - Support MPEG-2 to H.264 and H.264 to MPEG-2
 - IP and ASI interfaces
 - SD TV services at 1.5Mbps

**Cost effective – starting at 2K\$
per channel !!!**

Video Transcoding

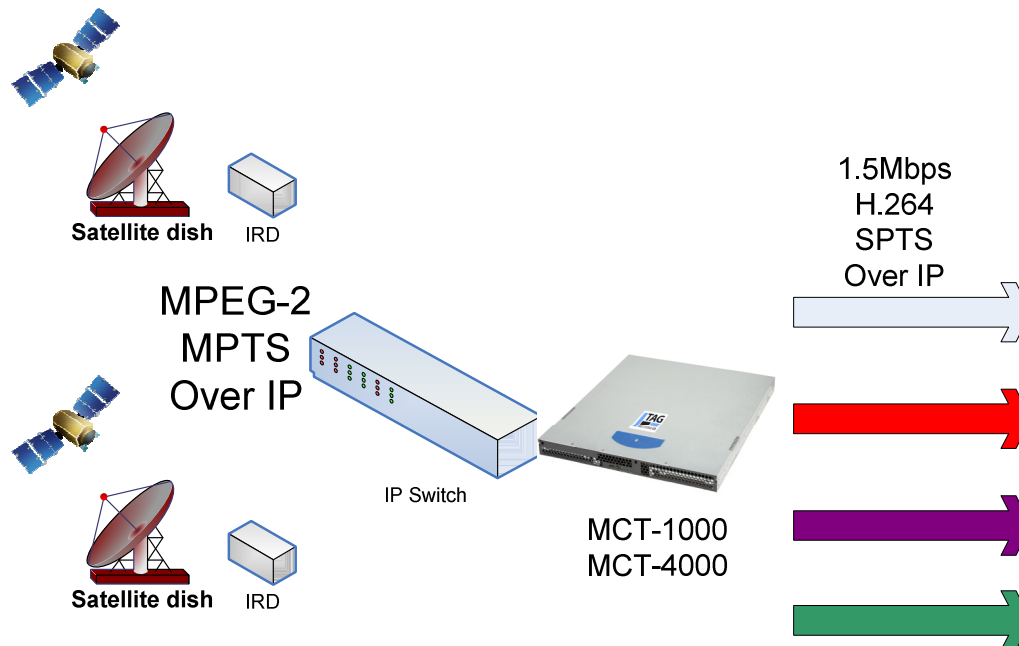
- Typical applications
 - MPEG-2 -> H.264 -> MPEG-2
 - save on space segment in point to multipoint video distribution.

- Typical saving 2Mbps per Video
- 2Mbps = 8K\$/Month
- Transcoding cost 2.5K\$



Video Transcoding

- Typical applications
 - IPTV over DSL – providing broadcast video quality @ 1.5mbps



Audio Transcoding

- Bridging between streaming and Broadcast
- Audio, with high quality, can be streamed today over the internet.
- In multiple hop transmission – some hops can be replaced by Internet.

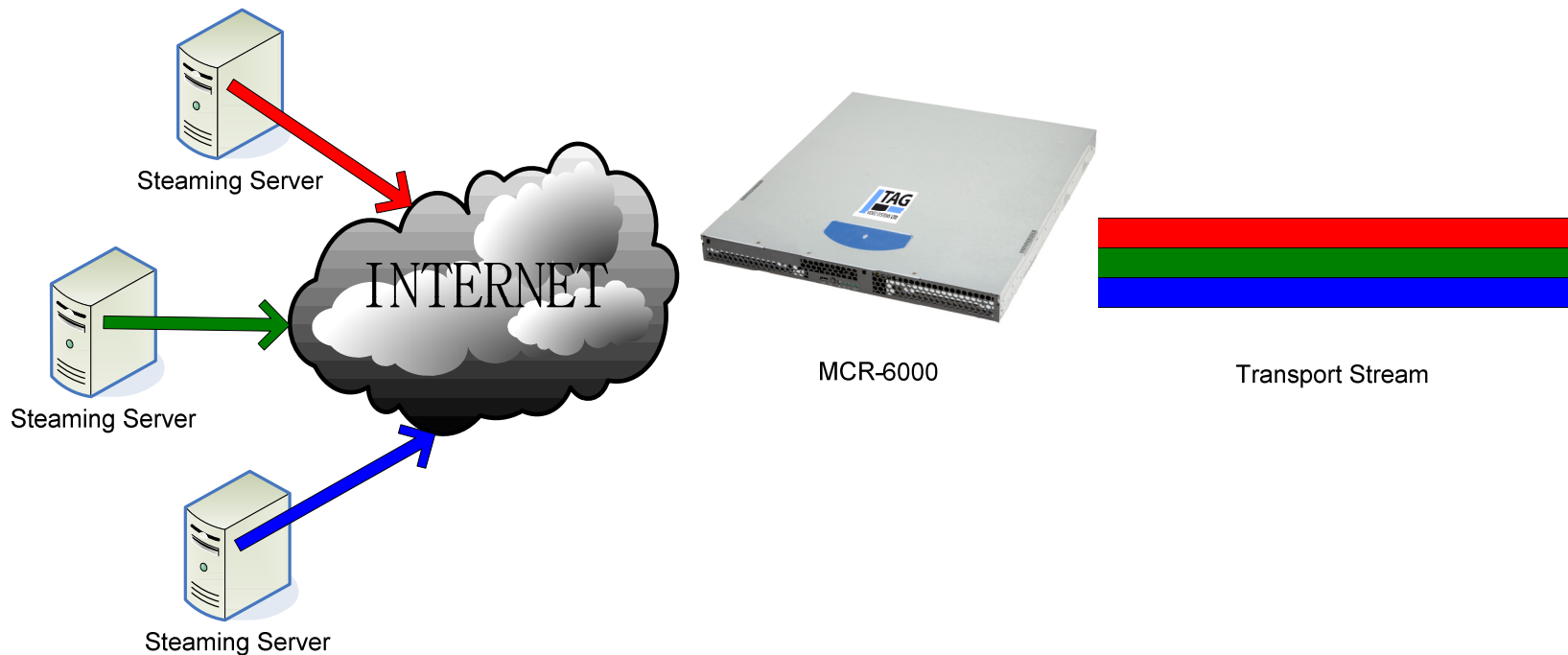
Audio Transcoding

- MCR-6000
 - Real time audio transcoding
 - Up to 48 channels on 1U server
 - IP and ASI interfaces
 - Source redundancy

Cost effective – starting at 1K\$ per channel !!!

Audio Transcoding

- Typical applications
 - Internet Radio to cable / DTH networks



Audio Transcoding

- Typical applications
 - Reducing number of hops in audio transmission

