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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





- 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 !!!





- 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 !!!





- 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\$











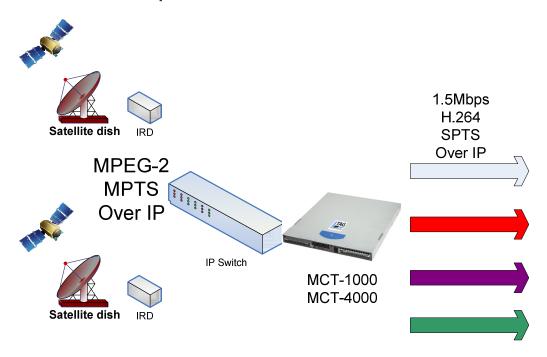








- Typical applications
 - IPTV over DSL providing broadcast video quality
 @ 1.5mbps







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

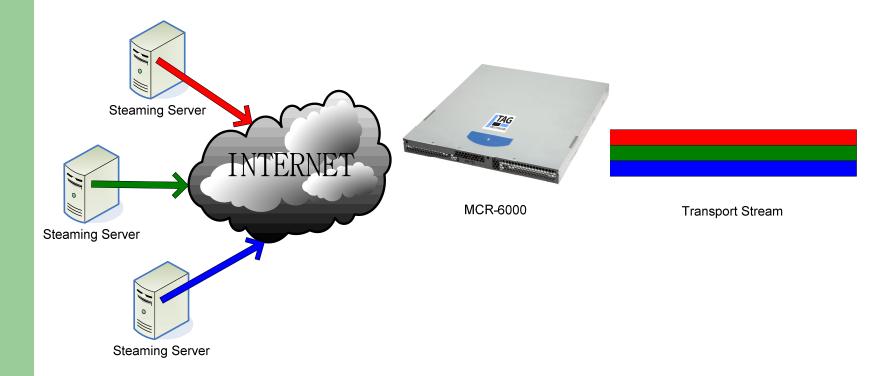
Cost effective – starting at 1K\$ per channel !!!





Audio Transcoding

- Typical applications
 - Internet Radio to cable / DTH networks





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Audio Transcoding

- Typical applications
 - Reducing number of hops in audio transmission



Internet + single Hop

