## SATCOM

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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


## 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 1.5 Mbps


## 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
- $2 \mathrm{Mbps}=8 \mathrm{~K} \$ /$ Month
- Transcoding cost $2.5 \mathrm{~K} \$$




## 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 1 U server
- IP and ASI interfaces
- Source redundancy

Cost effective - starting at $1 \mathrm{~K} \$$ per channel !!!

## Audio Transcoding

- Typical applications
- Internet Radio to cable / DTH networks



## Audio Transcoding

- Typical applications
- Reducing number of hops in audio transmission


MCR-6000
Internet + single Hop


