

Robert Hopkins
ATSC



- In 1992 ATSC proposed to FCC that ATSC document the ATV standard
- FCC welcomed the proposal
- Documentation began after formation of Grand Alliance
- HDTV standard now being voted



- Digital Television Standard for HDTV Transmission
- Guide to the Use of the Digital Television
 Standard for HDTV Transmission
- Digital Audio Compression (AC-3)
 Standard



- Printed in 1995 NAB Proceedings
- Video based on MPEG-2 Main Profile @ High Level with a few "constraints" (Annex A)
- Audio based on AC-3 with a few "constraints" (Annex B)



- Transport based on MPEG-2 Transport
 Stream with a few "constraints" (Annex C)
- RF based on 8-level VSB (Annex D)
- Receiver recommendations (Annex E)



- Printed in 1995 NAB Proceedings
- "Tutorial" written for Chief Engineers
- Covers entire system
- Written to accompany the Standard



- Adopted last November by ATSC Members
- Current vote includes an Annex describing use of MPEG-2 Transport to carry AC-3 bit stream



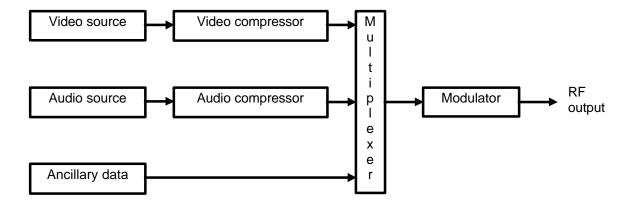
- During 1994 several ATSC Members proposed that ATSC document SDTV
- Executive Committee agreed, but...
- Must finish HDTV first

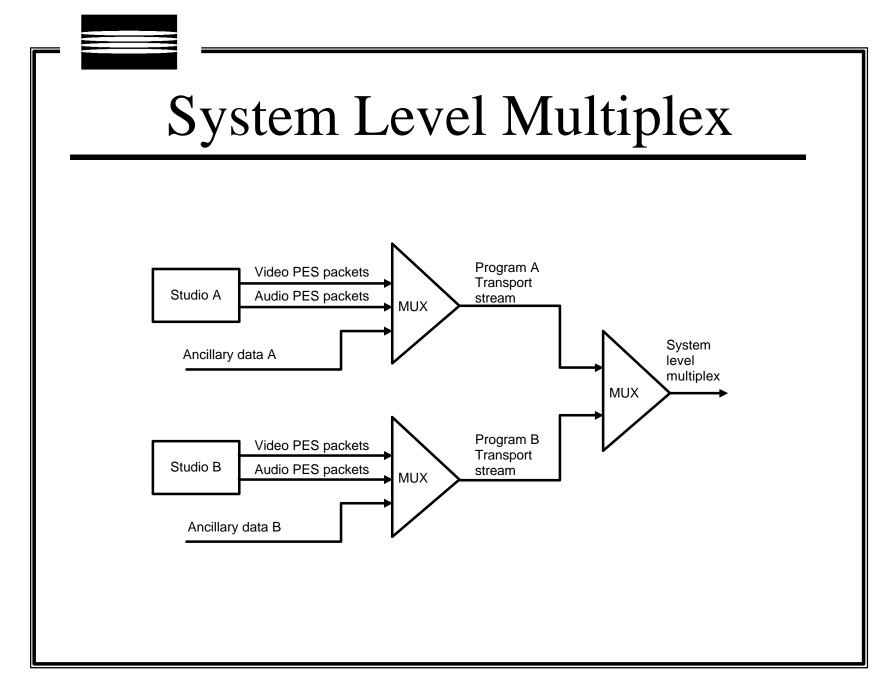


Extensibility of GA HDTV System

- Grand Alliance HDTV System has:
 - Flexibility
 - Interoperability
 - Extensibility
- SDTV "almost" built-in
 - Use multiple encoders at lower resolution
 - MPEG-2 transport accommodates multiple programs

Grand Alliance Encoder







- Will lay on top of HDTV Standard
- Adds standard definition format to video
- Specific formats are under discussion
- Audio, Transport, and RF, as already documented, can accommodate SDTV
- Discussions on whether additional constraints should be added to AC-3 audio

Additional Documentation Tasks

- Service Information
- Program Guide
- Compliance Document



- HDTV standards work completed now
- SDTV standards work completed summer 1995
- All other standards documents completed summer 1995



Submission to FCC (continued)

- Lab test report will be available summer 1995
- Advisory Committee expected to make recommendation to FCC autumn 1995
- FCC action soon thereafter

Availability of Standards Documents

- Copy in 1995 NAB Proceedings
- FTP or WWW to ATSC.ORG
- Send email request to
 R.HOPKINS@IEEE.ORG