IEEE 802.1 Audio Video Bridging Task Group
(summary)
Orlando, FL, USA
March 12-14, 2007
Status

- P802.1AS (time synch)
  - Current draft approach is still the plan of record
    - May do some changes based on improvements included in proposals by David James and Chuck Harrison
  - Expecting Task Group ballot this summer

- P802.1Qat (Stream Reservation Protocol)
  - Agreed to use MMRP (untouched by human hands) as the registration protocol
  - Reservation protocol nearing completion
    - Major missing parts are definition of “TSPEC” (QoS parameters to be communicated), data base definition/communication, and sublayer/shim model for different L2 MACs.
  - No Task Group ballot until Qav is further along (probably fall 2007)

- P802.1Qav (time-sensitive queuing/forwarding)
  - First discussions on layering and where to apply algorithmic (shaping, filtering) rules
  - First “structural” draft by next interim
New work

• One more PAR to start: overall AVB network standard including pointers to 802.1AS, 802.1Q (as amended by Qat/Qav), 802.3, and 802.11
  – Specify testable, interoperable configuration of standards docs
  – Should be short and reference a very, very specific subset of those docs

• Will bring proposed PAR to July plenary for “finish this up” vote so that PAR could be approved by EC in November
  – Work will be finished immediately after finishing AS, Qat, Qav ...
Parallel work

- AVB needs to hook to higher layers, so more work may be needed ....
- “AVB TP” SG started in IEEE MSC
  - transport protocol for video/audio based on IEC 61883 architecture
  - both L2 and IP/UDP/RTP approaches
  - possible service discovery at IP layer using zeroconf methods
- Higher layers need standard method to get a multicast L2 address
  - possible addition to SRP to allocate a “safe” address (within PAR scope for “allocate resources”)
  - all other methods allowed as long as addresses are unique
Agenda
## Tuesday

- **Administrivia**  
  MJT 10min

- **Review of methods for 802.1AS**  
  - Current draft  
    GG 20min  
  - David James'  
    DVJ 20min  
  - Chuck Harrison  
    CH 20min

- **Comparison/selection**  
  - Comparison (apples vs apples)  
    KS 60min  
  - Test for consensus  
    all 50min

- **802.1AS draft review (GG checklist)**  
  GG 45min

- **Accumulation of errors in a chain of syntonized TCs**  
  GG 45min

- **Thompson on Time**  
  GT 30min

- **802.1AS Layering**  
  DVJ 60min
Wednesday

- 802.1Qat Stream Setup and Teardown JNF 60min
- 802.1Qat Stream Management SO&ZU 30min
- 802.1Qat draft review (FF checklist) FF 90min
- Isochronous resource reservation with the probability based admission SSJ 30min
- Service discovery CG 45min
- Stream address allocation DO 45min
- 802.1Qav status TJ 5min
- Queuing and forwarding discussion TJ/all 115min
Thursday

- Bridge Architecture  
  TJ 60min
- Home PNA Architecture  
  Dudi Baum 45min
- Queuing and forwarding discussion (cont.)  
  TJ/all 75min