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/all115min

Thursday

- Bridge Architecture   TJ 60min

- Home PNA Architecture   Dudi Baum 45min

- Queuing and forwarding discussion (cont.)

  TJ/all 75min