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# Audio/Video Transport Working Group

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# Wednesday Agenda (1)

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- Introduction and document status 10
- New payload formats
  - » SMPTE 292M 10
  - » EVRC speech 10
  - » Discussion 10
- Payload format for AMR
  - » Error-tolerant RTP payload format for AMR 5
  - » RTP payload format for AMR (merged) 5
  - » Discussion 10

# Wednesday Agenda (2)

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- RTCP backchannel / RTP retransmission
  - » Concepts and message timing rules 10
  - » Low-delay RTCP for backward messages 10
  - » Payload format for selective retrans. 10
  - » Discussion 10
  
- RTP spec/profile to Draft Std
  - » Congestion control in RTP 10
  - » Interoperability testing 10

# Thursday Agenda (1)

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- Header compression/multiplexing 10
  - » CRTP extensions
  - » CRTP over PPP negotiation
  - » Tunneling multiplexed CRTP
- Payload formats for unequal error protection
  - » Erasure-resilient progressive multimedia 10
  - » Generic FEC with ULP 10
- Transport of meta-info with RTP streams
  - » Payload format for Payload Meta-Information 10
  - » Payload format for Program Queues 10

# Thursday Agenda (2)

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- RTP encryption and authentication
  - » Security requirements in 3G networks 10
  - » RTP encryption for 3G networks 10
  - » Secure RTP 10
  - » Discussion 10
- Payload format for MPEG4
  - » Introduction 5
  - » New draft-gentric-avt-rtp-mpeg4 10
  - » Discussion 10
- Action items 5

# Please Note!

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- Please send your slides online to chairs for inclusion in the minutes
- When making your presentation, please say if:
  - » There is IPR associated with your draft
  - » Your draft is *not* offered in accordance with Section 10 of RFC 2026

# RTP Drafts in Process

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- RFCs recently published:
  - » RTP MIB (RFC 2959)
  - » Parity FEC MIME registration (RFC 3009)
  - » MPEG-4 Audio/Visual Streams (RFC 3016)
- Drafts awaiting publication:
  - » Payload formats for DV audio & video  
(IESG asked for text clarification → Casner)
  - » Payload format for G.722.1
- WG last call
  - » Loss-tolerant MP3 audio - some comments

# Drafts Ready for Last Call

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- RTP Testing Strategies  
draft-ietf-avt-rtpptest-04.txt
- RTP Payload for Comfort Noise  
draft-ietf-avt-rtp-cn-01.txt  
➔ Yell if backward compatibility problems



# Status of RTP

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- No changes in RTP spec, profile and companion drafts since last meeting
- Issues to resolve:
  - » Congestion Control wording
  - » Completion of interop matrix
- WG Last Call completed in Nov. 1999, but need another one

# Congestion Control in RTP

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*IESG: Other protocols are required to have congestion control, why not RTP?*

- RTP spec:
    - » Congestion control is required, but different from TCP
    - » Context dependent, SHOULD be specified in profiles
  - A/V Profile (text thanks to Mark Handley):
    - » With QoS, monitor to ensure service was received
    - » If best-effort, monitor loss and adapt or stop if average throughput is more than what TCP would get
- ☞ *Is this text sufficient / acceptable / appropriate?*

# Discussion on Mailing List

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- RTP should not be fair to TCP
- RTP won't get past IESG without it
- Need a reference to algorithm or numbers
- TFRC was the model, but shouldn't be mandated
  - » We could refer to TFRC, but will that be an RFC soon enough?

*(Half: says too little; other half: says too much)*

# Meeting Actions (1)

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- RTP spec, Profile to Draft Standard
  - » Congestion control wording mostly as is, with small revisions to address comments from Area Directorate
  - » Non-interoped features to be removed
  - » Do WG Last Call again

# Meeting Actions (2)

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- Issue WG last call on Comfort Noise payload
  - ➔ Yell if backward compatibility problems
- Submit MP3 payload format to IESG after draft with WG last call comments is posted

# Meeting Actions (3)

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- New work to accept as Working Group tasks:
  - » Payload for EVRC speech?
  - » RTCP RX profile (combined draft)
  - » Payload(s) for meta-info?
  - » Erasure-resilient progressive multimedia?
  - » RTP Security (merged)?

# Meeting Actions (4)

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- MPEG-4:
  - » MPEG committee extensions to systems streams draft to be completed by Jan.
  - » This draft will represent MPEG consensus and will go to WG last call at Proposed