

# The -avt-rtcp-xr-\* drafts

draft-ietf-avt-rtcp-xr-burst-gap-discard-01, draft-ietf-avt-rtcp-xr-burst-gap-loss-01,  
draft-ietf-avt-rtcp-xr-concsec-01, draft-ietf-avt-rtcp-xr-delay-01,  
draft-ietf-avt-rtcp-xr-discard-01, draft-ietf-avt-rtcp-xr-jb-01,  
draft-ietf-avt-rtcp-xr-loss-conceal-01, draft-ietf-avt-rtcp-xr-meas-identity-01,  
draft-ietf-avt-rtcp-xr-pdv-01, draft-ietf-avt-rtcp-xr-postrepair-loss-01,  
draft-ietf-avt-rtcp-xr-qoe-00, draft-ietf-avt-rtcp-xr-siglevel-00

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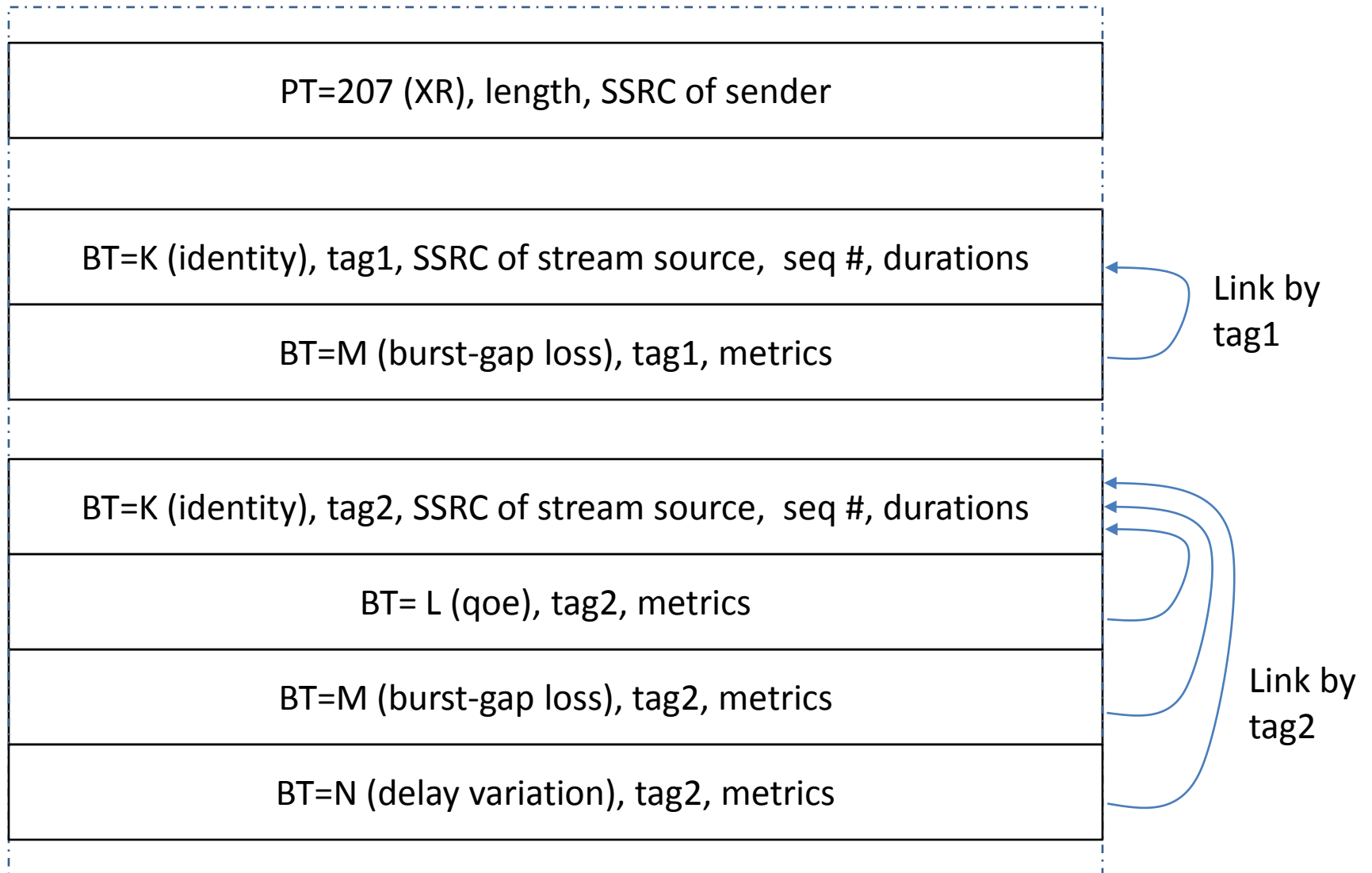
Geoff Hunt

Alan Clark

# Refresher - why twelve drafts?

- The result of “re-architecting” RTCP-HR
  - Metrics are largely the same as those in RTCP-HR
- A single block per draft
- A very few closely-related metrics per block
- Designed for re-use across applications
- Blocks for
  - Transport (loss, delay variation)
  - Terminal behaviour (de-jitter buffer)
  - Quality of user experience (VoIP, and starting on video)
- Applications are *not* expected to implement all metrics
- Blocks can report *cumulative* or *interval* metrics

# The measurement identity block



# The metrics blocks

- Three broad classes of metrics in the eleven blocks:
  - Transport metrics
    - Loss, delay variation
    - Relevant to all RTP applications
  - Transport-related mixer or end system metrics
    - Concealment, de-jitter buffer performance
    - Relevant to RTP applications with a de-jitter buffer
  - Quality of experience
    - Opinion scores, signal levels
    - Opinion scores relevant for applications which define them
    - Signal levels block applicable to audio, voice and video

# What has changed in the -01 versions? (1)

- “Changes from previous version” in each draft
- Clarified and extended “IANA Considerations”
- Changes to more readable SDP tags for blocks
- VoIP-specifics “separated out”

# What has changed in the -01 versions? (2)

- “-meas-identity”
  - SDP signalling now implicit
  - Removed forwarding count (Colin Perkins’ comment)
- “-concsec-”
  - Added example to help define concealment
  - Added text based on Roni Even’s and Randall Jessup’s posts, for applicability to video
- “-pdv-”
  - Added guidance on when to use each PDV metric
  - Details of new registry of PDV types in IANA section

# Next steps...

- Milestones
- Please review
  - Against your use cases
  - For clarity
  - For usefulness of metrics
  - For ease and economy of implementation