RTCP XR Report Block for Loss Concealment Metric Reporting
draft-ietf-xrblock-rtcp-xr-loss-conceal-03

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Document Status

• This draft is accepted as XRBLOCK WG item in June before IETF 84 Vancouver.

• This block type provides metrics for actions taken by the receiver to mitigate the effect of packet loss and packet discard
  – Five metrics are defined
    • On-Time Playout Duration,
    • Loss Concealment Duration
    • Buffer Adjustment Concealment Duration
    • Playout Interrupt Count
    • Mean Playout Interrupt Size
  – Loss Concealment Duration and Buffer Adjustment Concealment Duration are reported separately
    • Buffer adjustment is typically arranged to occur in silence periods so may have very little impact on user experience.
    • Whilst loss concealment may occur at any time.

• Changes from previous version.
  – Reference update.
  – Other editorial changes.
Issue 1# Loss concealment for video application

- It is currently defined in the draft that the metrics are primarily for audio applications of RTP
- Alan noted that Video does have loss concealment and there are a range of methods used
- It is suggested to expand Packet Loss Concealment Method from 2 bits to 4 bits for video application, and add enumeration values as below:
  - 0 = silence insertion (audio); 1 = simple replay, no attenuation (audio); 2 = simple replay, with attenuation (audio); 3 = enhanced (audio);
  - 4 = Frame Freezed (video); 5 = Inter-Frame extrapolation (video); 6 = Interpolation (video); 7 = Noise Insertion (video)
  - Other values reserved
- Can we go without video loss concealment,
  - Audio part is almost ready for WGLC?
- Note: this issue is closely related to draft-ietf-xrblock-rtcp-xr-concsec, further discussion could be placed in that draft
Follow Up

• Questions and comments?
• Document will be updated based on the feedback

• Thanks!