

RTCP XR Report Block for Loss Concealment Metric Reporting

draft-ietf-xrblock-rtcp-xr-loss-conceal-03

Claire Bi
Alan Clark
Geoff Hunt
Qin Wu
Glen Zorn

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 2bits 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!