Current Burst Gap related Drafts

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Overview

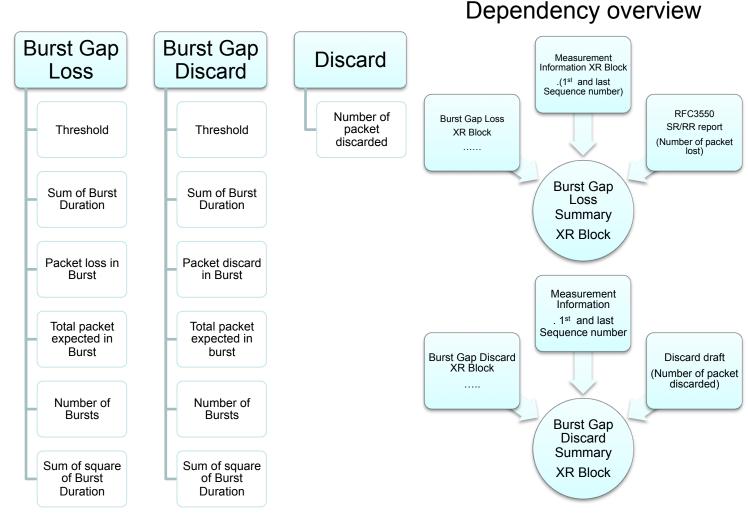
- Two Burst Gap drafts:
 - draft-ietf-xrblock-rtcp-xr-burst-gap-loss-00
 - draft-ietf-xrblock-rtcp-xr-burst-gap-discard-00
- One Burst Gap related draft (Discard Draft)
 - draft-ietf-xrblock-rtcp-xr-discard-00
- One Burst Gap Summary draft
 - draft-zorn-xrblock-rtcp-xr-al-stat-03
- Background
 - Discard draft discusses discard basic metric
 - Two Burst Gap drafts discusses burst gap related basic metric.
 - Burst Gap Summary draft add dependency to both Discard draft and two burst Gap drafts.
 - Four drafts all focus on transport related terminal metrics.
 - 00 version contains a few changes
 - Follow consensus to draft-ietf-avtcore-monarch

Common Changes since 00

- Remove tag field in Block header
- Add SSRC field in the Block payload.
- Remove the reference to tag field that is related to measurement identity draft.
- Fix typo on the New XR Block Type value.
- Reference update.

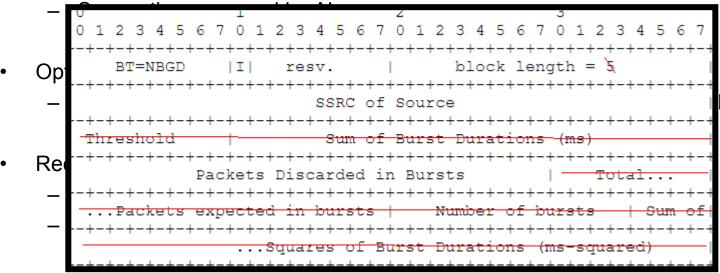
Metrics overview

- 1. No dependency between three metric Block
- 2. Uses a time window to differentiate packet loss and packet discard
- 3. Uses Gmin or Threshold to distinguish Gap and Burst.
- 4. Discard metric is used to calculate gap discard rate defined in Burst Gap Loss Summary XR Block of Draft-zorn-xrblock-rtcp-xr-al-stat



Issue-combined loss/discard

- This comment is applied to burst gap loss draft and burst gap discard draft.
- Option 1: Yes
 - A combined loss/discard draft is more useful for QoE assessment
 - Most of measurement results in two draft are redundant
 - E.g., Threshold. Sum of Burst duration, Total packet expected in the burst,......



– Break the following rule:

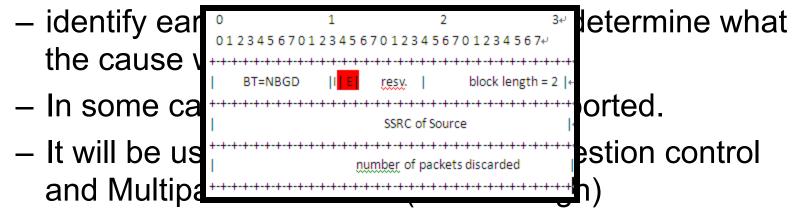
"contain a single metric or a small number of metrics relevant to a single parameter "

- Delete redundant data from burst Gap discard draft and only keep packet discard in burst metric.
- combine Loss/discard is required, sent together.

Issue – early vs late discard

 This comment is applied to both burst gap discard draft and discard draft.

Pro:



- Con:
 - None
- Action:
- Is there any consensus to distinct early discard from
 12/20/11 late discard?
 AVTCore IETF 82 Taipei

Comments on potential extension to burst gap drafts

- These proposed extensions are applied to burst gap loss draft and burst gap discard draft.
- Is there a need to add Time Since Last Burst into burst gap drafts?
 - Helpful to know when the last substantial loss/discard burst occurred relative to the report time
 - But we may estimate time such last burst based on measurement interval carried in the measurement information XR Block?
- Is there a need to add Max burst length into burst gap drafts
 - Max burst length is important as this is the period that impacted the user most
 - This represents the "worst" period from a QoE perspective
- Is there a need to add average burst and gap loss/discard rates without keeping and reporting sums/ sums of squares of burst duration?

Follow Up

- Question?
- WGLC to the following drafts:
 - draft-ietf-xrblock-rtcp-xr-burst-gap-loss-00
 - draft-ietf-xrblock-rtcp-xr-burst-gap-discard-00
 - draft-ietf-xrblock-rtcp-xr-discard-00