draft-ietf-xrblock-rtcp-xr-discard-rle-metrics

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Re-cap

- Discards packets arriving early or late
- Discard due to duplication not reported
- Two Report blocks
  - Run-length encoded
    - `begin_seq` to `end_seq`
  - Bytes discarded
    - 32 bits unsigned
    - Counts payload bytes of discarded packets

IESG Review

- Stephen Farrell (and SecDir Review)

*I don't agree with the assertion in section 7 -
sometimes more precision is in fact enough to cause a
security issue, so the statement is just wrong. Was
security really considered?*

TEXT in -06 version:

```
The security considerations of [RFC3550], [RFC3611],
and [RFC4585] apply. Since this document offers only a
more precise reporting for an already existing metric,
no further security implications are foreseen.
```

- RFC3611 defines LOSS RLE

Section 7 (Proposal)

The Discard RLE block provides per-packet statistics so the risk to confidentiality documented in Section 7, paragraph 3 of [RFC3611] applies. In some situations, returning very detailed error information (e.g., over-range measurement or measurement unavailable) using this report block can provide an attacker with insight into the security processing. Where this is a concern, the implementation should apply encryption to this report block. This can be achieved by using the AVPF profile together with the Secure RTP profile as defined in [RFC3711]; as a prerequisite, an appropriate combination of those two profiles (an "SAVPF") is being specified [RFC5124].

Additionally, The security considerations of [RFC3550], [RFC3611], and [RFC4585] apply.

- Packets are discarded based on timestamp and de-jitter buffer.

PM Directorate Review

- Thank you Alan Clark,
  - editorial changes + 1 open issue

- discard bytes block
  1. Keep with RLE block, update title and add RFC6390 template

     ```
     RTP   Control   Protocol   (RTCP)   Extended
     Reports (XR) for Bytes Discarded and Run
     Length Encoding (RLE) of Discarded Packets
     ```
  2. Move Discarded bytes to Packet discard draft
     - Packet discard draft is in RFC-EDITOR Queue

Next Steps

- **OPTION 1:** impacts only a single draft
  - update title and add RFC6390 templates.