

Post-Repair Loss RLE for RTCP XR

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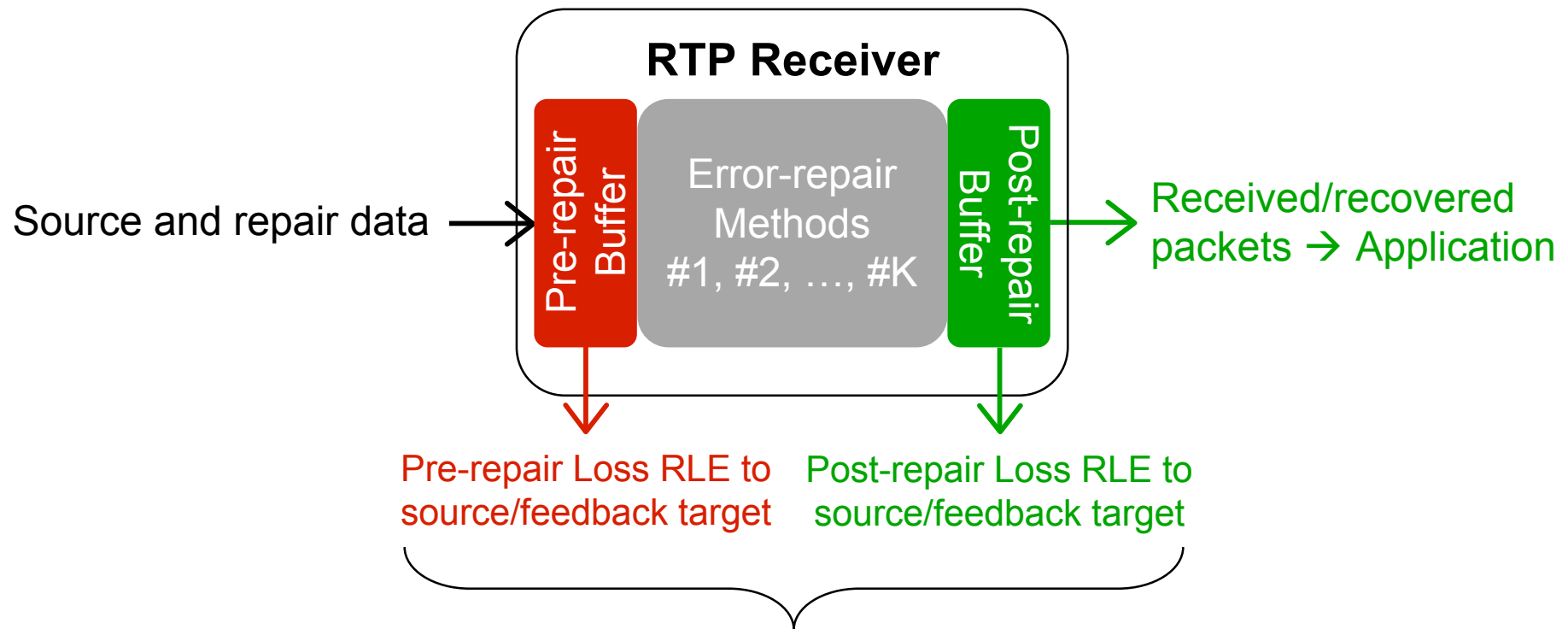
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Introduction

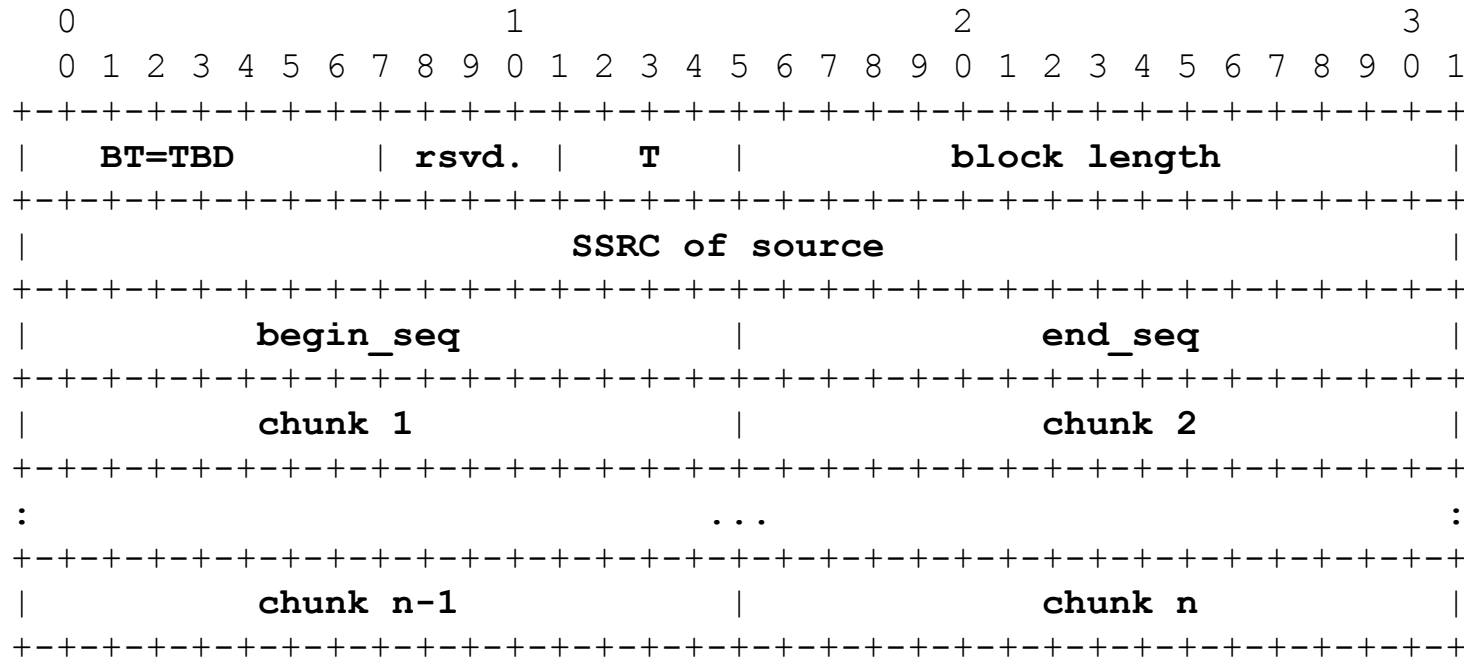
- Currently, we have
 - Receiver reports (RR) that carry packet loss rate information
 - Extended reports (XR) that carry loss bitmaps
 - These (pre-repair) reports care about the losses before any repair method is applied at the receiver side
 - This document
 - Defines a new RTCP XR block type for post-repair loss bitmaps
 - Defines SDP signaling and registers the new block type with IANA
- By comparing the pre and post-repair loss bitmaps, we can determine the effectiveness of error-repair techniques

Post-Repair Loss RLE Report



The difference tells us the aggregated performance of the error-repair methods

Post-Repair Loss RLE Report Block



- Block type (BT): 8 bits (TBD)
- Thinning (T): 4 bits. 0 indicates that there is no thinning
- Block length: 16 bits
- SSRC of source: 32 bits
- Begin_seq: 16 bits
- End_seq: 16 bits
- Chunk i: 16 bits (as defined in RFC 3611)

SDP Signaling

- The “rtcp-xr” attribute is defined in RFC 3611

```
rtcp-xr-attrib = "a=rtcp-xr:"  
                [xr-format *(SP xr-format)] CRLF
```

```
xr-format = "post-repair-loss-rle" ["=" max-size]
```

```
max-size   = 1*DIGIT ; maximum block size in octets
```

Next Steps

- WGLC?