ECRTP Reordering

draft-koren-avt-ecrtp-reorder-00.txt

AVT WG

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ECRTP – extensions to CRTP rfc3545

- Update of absolute values
- HDRCKSUM – headers checksum
- Repeat updates N times
  - N reflects the link quality

Out of order seq#

| 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

Old seq#:   2

New seq#:   4

Try twice forward and backwards applying the RTP deltas: `dT, dI. dS = 1`

Twice in ECRTP

- All IP/UDP/RTP headers except for the IP ID are verified by the UDP checksum or the HDRCKSUM
- Skip forward
  - OK to twice up to N + 1 forward
  - Update context
- Backwards
  - As far as the current `dI` applies
    - Probably as far as the last update of the full IP ID
  - Don't update context

Additional context info

- Twice backwards will succeed based on the current context as long as there were no updates

- In case of updates, remember the history of decompressor context states for as far as we want to be able to decompress backwards

- Attempt to twice backwards only for skipped seq#'s