SCTP
(Individual submissions)

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draft-tuexen-.tsvwg-sctp-prpolicies

• Limited Retransmission Policy
  – Limits the number of retransmissions
  – Used by RTCWeb

• Priority Policy
  – Allows “important” messages get in the socket buffer, even if filled with “less important messages”
  – Used by IPFIX

• Almost complete

• Feedback appreciated!
Sender Side Head of Line Blocking

Queue of Stream 0
0/0

Queue of Stream 1
1/2 1/1 1/0

Queue of Stream 2
2/0

Round Robin Scheduler without Interleaving

Packets on the wire
With Interleaving Support

Queue of Stream 0

Queue of Stream 1

Queue of Stream 2

Round Robin Scheduler with Interleaving

Packets on the wire
draft-stewart-tsvwg-sctp-ndata

• SCTP minimizes receiver side head of line blocking, but the sender can’t interleave messages from different streams.
• This extension allows interleaving traffic from multiple streams at the sender by using a explicit sequence number for reassembly.
• Stream schedulers are crucial here, so draft-tuexen-tsvwg-sctp-scheduling will be merged in.
• Use case: RTCWeb
• Currently being implemented.
• Feedback appreciated!