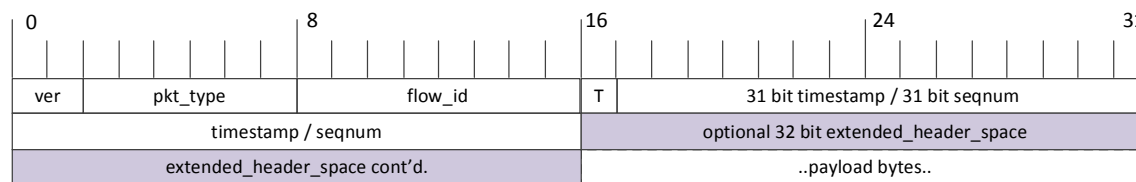# Start of Frame (*S-flag*) considerations

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Background

- The current RoE header has a dedicated S-flag bit for indicating the "start of radio frame" e.g., the 10ms radio frame in LTE.

- A dedicated bit is actually redundant since it can be, for example, described by a sequence number rule (when a sequence number has specific bit pattern etc).

- The bit reserved for S-flag could be used for other purposes like extending the maximum number of flows.

Proposal

❑ Remove the "start of frame" S-flag and add the freed bit to flow_id field (increases the flow_id size up to 256).

❑ Describe that the "start of frame", when needed, shall be deducted e.g., from the sequence number.

  – This will be part of the CPRI mapper text that may make use of such information.

0							8								16							24							31
ver	pkt_type		flow_id		T	31 bit timestamp / 31 bit seqnum			
timestamp / seqnum				optional 32 bit extended_header_space			
extended_header_space cont'd.				..payload bytes..			

Discussion

❏ Next steps:

- – Approve the principle.

- – Implement required changes to D0.1 (see the corresponding Word file tf3_1510_korhonen_sflag-word_1.docx)