Start of Frame (S-flag) considerations

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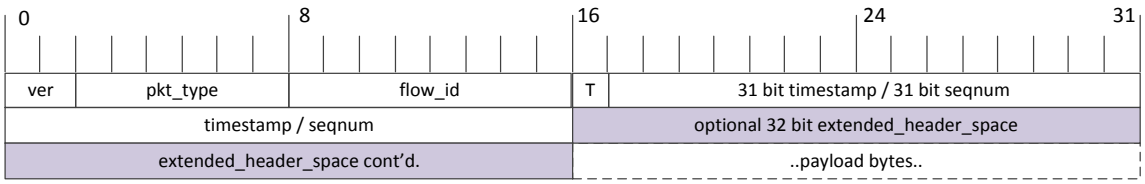
Background

- 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.



Discussion

- Next steps:
  - Approve the principle.
  - Implement required changes to D0.1 (see the corresponding Word file tf3_1510_korhonen_sflag-word_1.docx)

Motion #4

- Accept as the base line proposal the RoE header as shown in tf3_1510_korhonen_sflag_1a.pdf page 3 with the following change: remove S-flag bit from the RoE header and repurpose it as an additional flow_id bit. The start of radio frame can be determined through other means.

- Jouni Korhonen making the motion
- Seconded by Yasser Bajwa

- Technical motion (>=2/3)

- Yes: 7, no: 0, abstain 1