Extension header space considerations

Jouni Korhonen

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Background

❑ The current RoE header extended_header_space is defined as a 32 bit field.

❑ This is good for a number of use cases but for all - in same use cases shorter might be enough or 32 bits is not enough.

❑ For hardware implementation benefit there still should be an upper limit for the extended_header_space size.

❑ The presense of the extended_header_space is already dependent of the pkt_type so flexible size should not be an issue.

Proposal

- Allow multiple extended_header_space sizes using multiples of 16 bits.
- The final size is dependent on the pkt_type.
- Allow sizes: 0, 16, 32 and 48 bits (to define the upper bound for the header/packet).

Discussion

❑ Proposed next steps:

– Approve the principle.

– Changes to D0.1 shown in the associated Word document (tf3_1510_korhonen_exthdr-word_1.docx).