

Flexible FEC

draft-ietf-payload-flexible-fec-scheme-03

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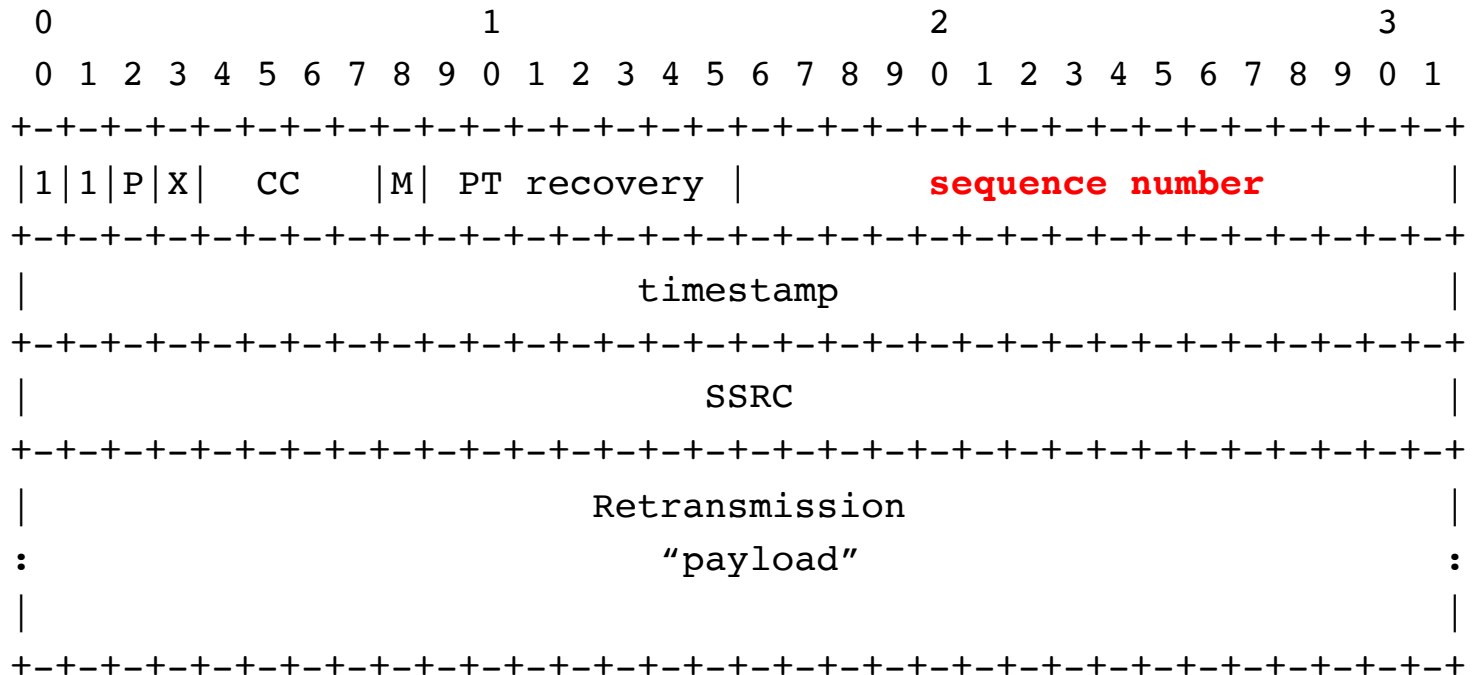
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PAYLOAD WG – IETF 97 – Seoul, KR

Major Changes in -03

- Removed non-parity/XOR codes
 - Raptor, Reed-Solomon, other codes will now need new drafts, as agreed in IETF 96 (Berlin)
- Retransmission format was optimized
 - 12 bytes of RTX overhead vs. 20-32 for full FEC
 - RFC 4588 RTX overhead is only 2 bytes (OSN), but can't convey different SSRC, TS, PT, X, CC, M, P, so basic tradeoff is overhead vs. flexibility

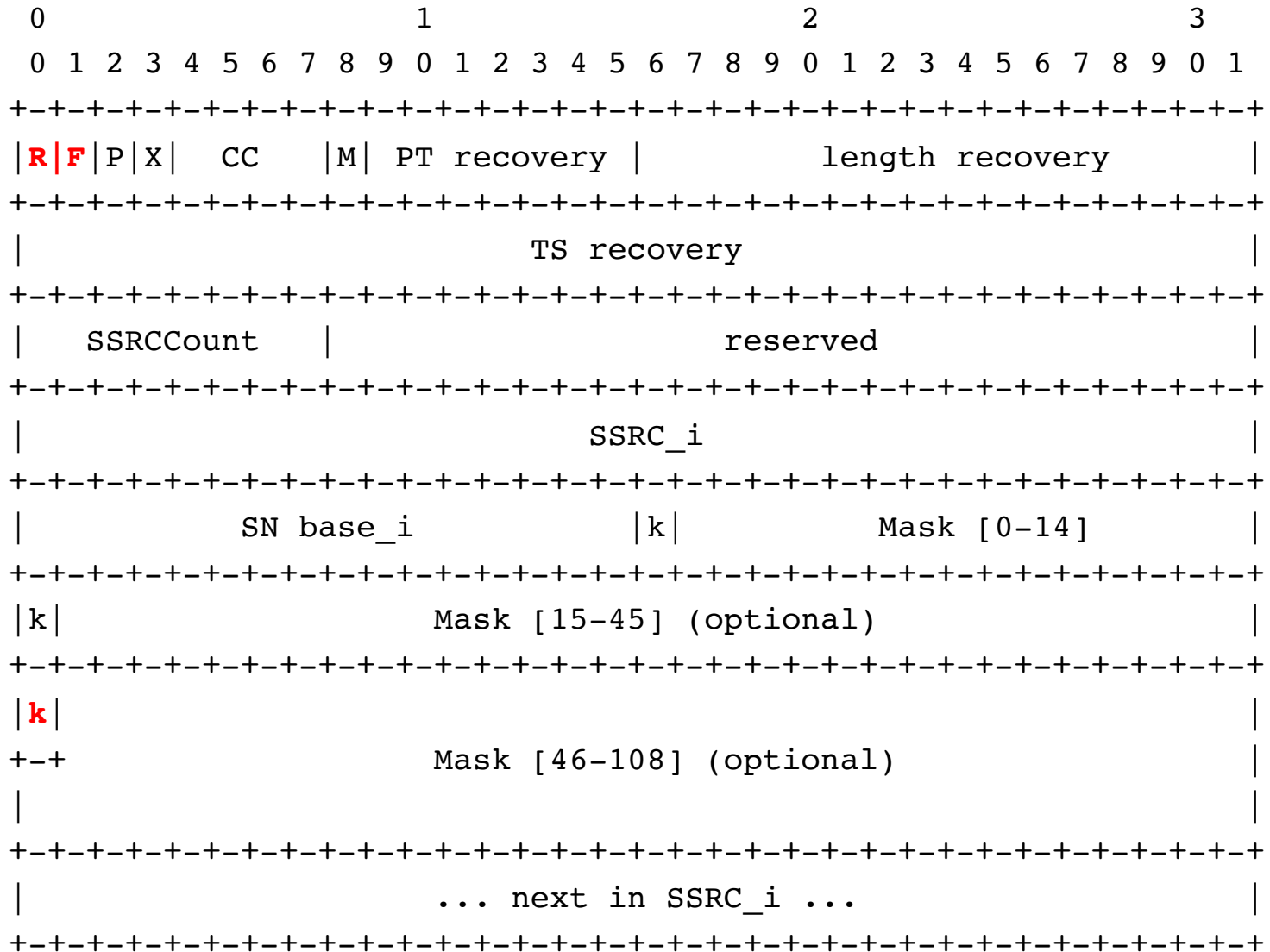
Retransmission Format



Minor Changes in -03

- Swapped R (rtx) and F (fixed mask) bits, to make retransmission format clearer.
- Added an editors note that the final K bit in Mask[46-108] can be removed if desired.
 - Extends mask by 1 more bit, but disallows any future extension.
- Editorial cleanup

Mask FEC Format



Open Issues & Next Steps

- Remove final K bit in Mask[46-108] ?
- Retransmission format overhead
 - 12 bytes vs. 2 bytes in RFC 4588
 - Consider further efficiency optimizations?
- More editorial cleanup needed in various sections
- Ready for WGLC after above issues resolved