

draft-thubert-intarea-schc-over-ppp

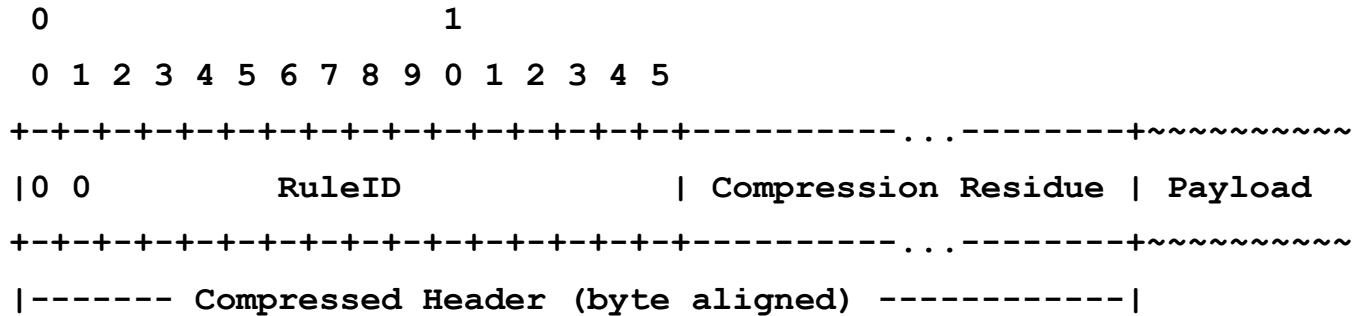
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draft-thubert-intarea-schc-over-ppp

- SCHC over PPP (and then PPP over foo)
- Enables SCHC over
 - Serial, 3GPP
 - Ethernet with PPPoE, Wi-Fi with Ethernet
- Signals
 - A new compression for PPP (Updates RFC 5172)
 - The URL of the data model for the compression
 - Dependency on draft-ietf-lpwan-schc-yang-data-model

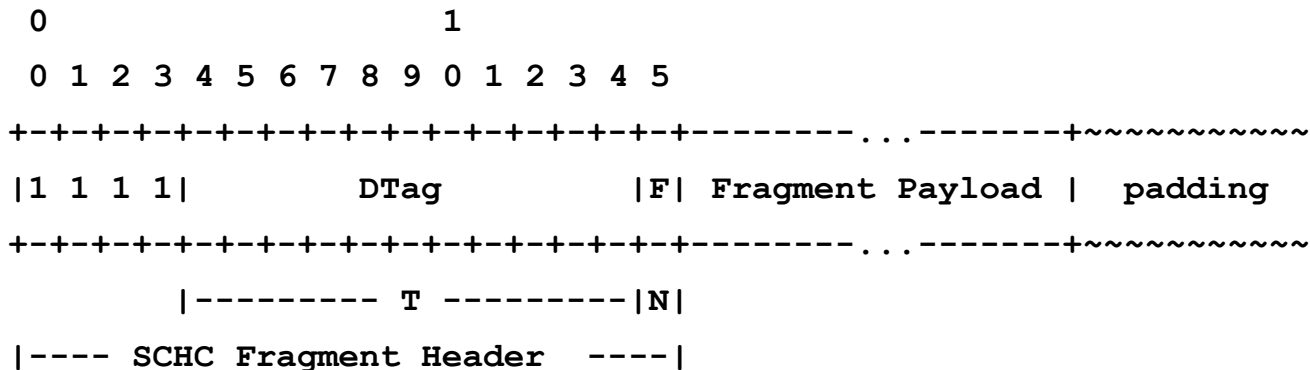
RuleID Numbering Scheme

- The RuleID for a compression rule is expressed as 2 bytes.
- The first (leftmost) 2 bits of that RuleID MUST be set to 0
- This leaves 14 bits to index the rule;
 - Q: how to absorb residue?



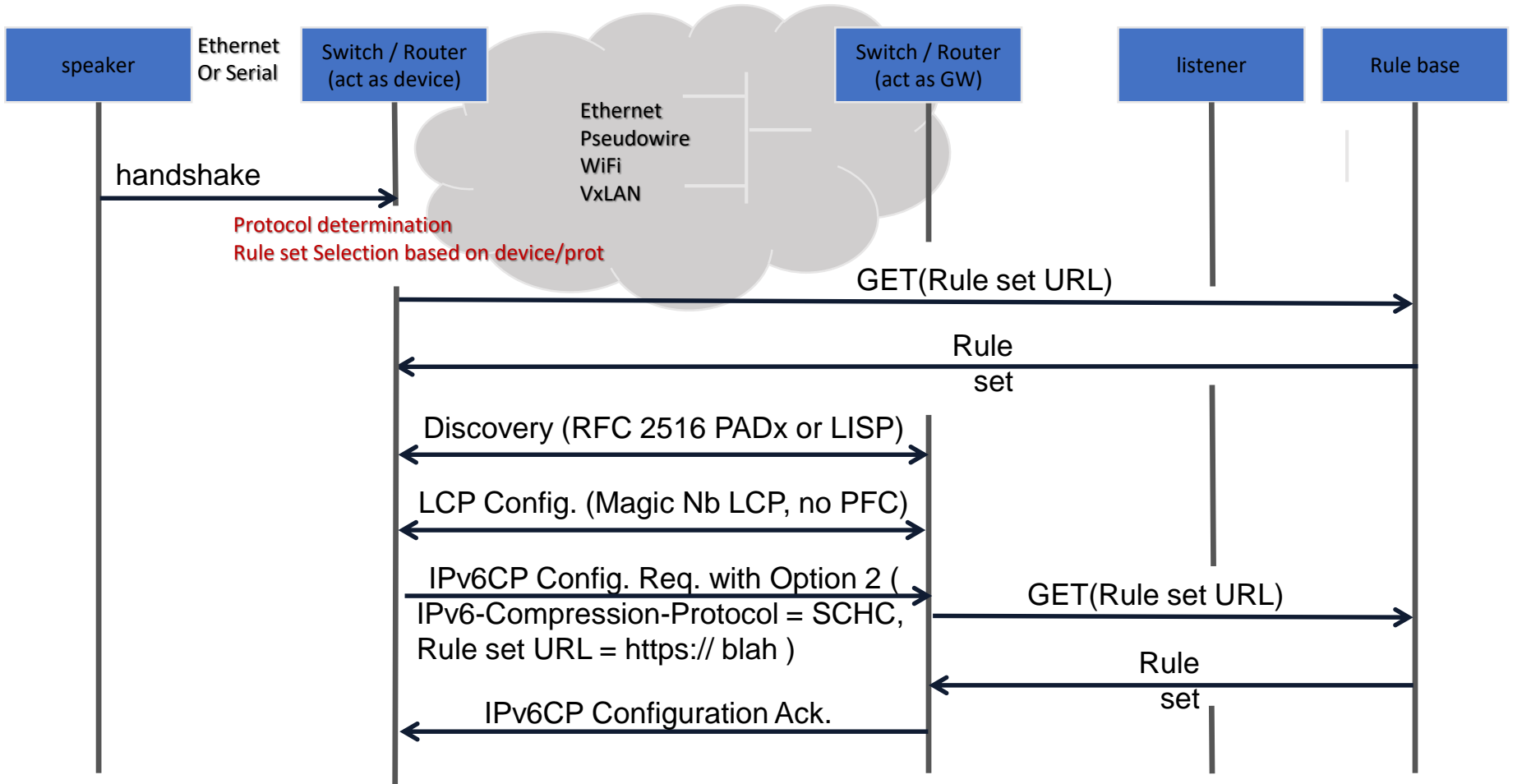
Draft status: Added Fragmentation

- Only No-Ack mode => packet order must be respected
 - If used with DetNet => may require PREOF reordering
- The RuleID for a fragmentation rule is expressed as 4 bits
 - Reserved 1111 for NO ACK

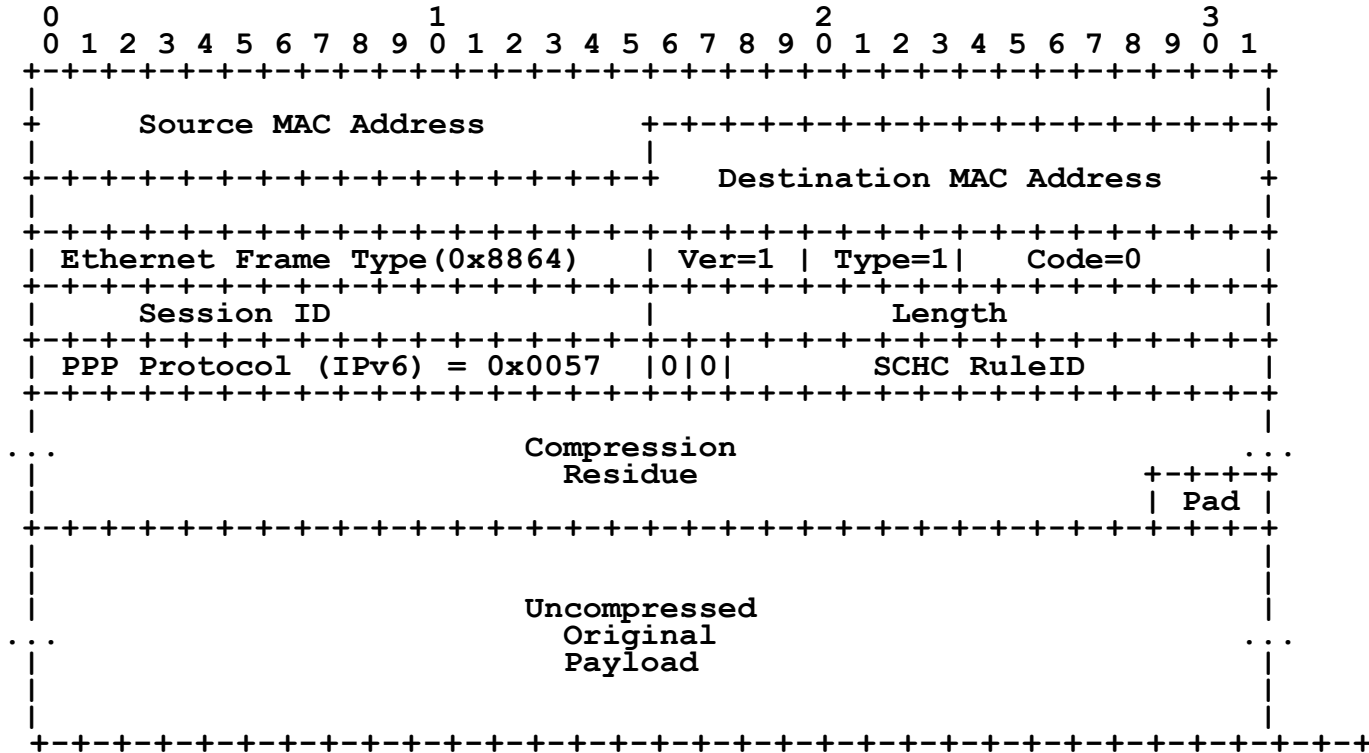


Draft status: Padding

- The Compression Residue **MUST** be aligned to the L2 word.
- For Ethernet, the L2 word is one byte, so padding is needed up to the next byte boundary.
- If a compression rule produces a residue that is not byte aligned, then it is implicitly terminated with a statement that indicates padding till the next byte boundary.
- The padding bit is 0
- The residue + padding may be followed by uncompressed payload



Resulting Packet (no Frag example)



Discussion

- Adoption?
- Add applicability statement?
- Possible extensions?