draft-ietf-lpwan-schc-over-sigfox

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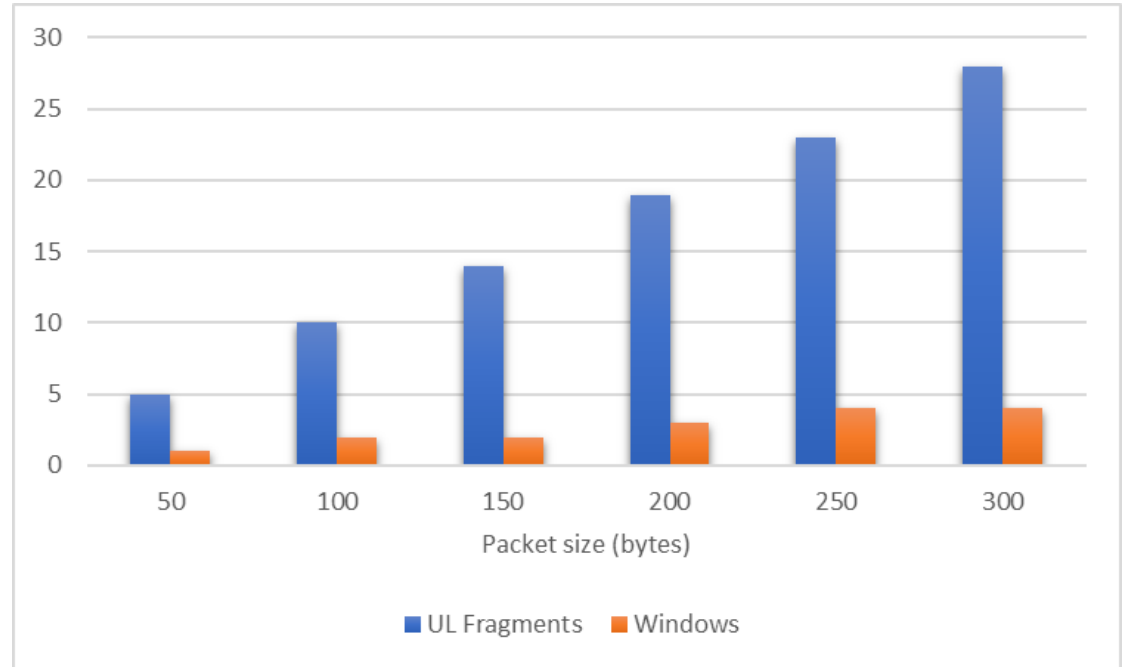
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Status update

- No modifications to draft since IETF104
- Currently working on optimization of SCHC parameters for payload Fragmentation and Data Integrity over Sigfox payload sizes
  - UL payload – 12 bytes
  - DL payload – 8 bytes

- Single-byte SCHC UL header
  - Optimized for minimum overhead
  - ACK size of 13 bits in DL

- Two-byte SCHC UL header
  - Optimized for maximum payload
  - ACK size of 43 bits in DL

Single-byte SCHC UL header

- ACK-on-Error mode
- SCHC support for up to 300 bytes payload
- As little as one single 13-bits ACK needed in DL

Bar chart of UL Fragments (blue) and Windows (orange) vs Packet size (bytes): at 50 → ~5, ~1; at 100 → 10, ~2; at 150 → 14, ~2; at 200 → 19, ~3; at 250 → 23, 4; at 300 → 28, 4.

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Two-byte SCHC UL header

- ACK-on-Error mode

- SCHC support for over 2000-bytes payload

- As little as one single 43-bits ACK needed in DL