draft-ietf-lpwan-schc-over-lorawan

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Presentation agenda

• Changes since IETF105
• Technical discussion
• Next steps
Recap since IETF 105

• What has happened since IETF105?
  • Drafts -03 and -04 published
  • Some very useful feedback
Changes in -03

- Unified overhead sizes (1 & 2 bytes) to 1 byte only
  - => SCHC header: 2 bytes, ruleId in LoRaWAN FPort
- DTag size = 0 (unused)
- Tile size = 5 bytes
- Made padding value explicit (0)
- Added examples
- Global terminology, typo and editorial updates
- Added Julien Catalano as Editor
Changes in -04

• Fixed MTU with 10 bytes tiles
  • More efficient for all LoRaWAN MTU than 6, 7, 8, 9 bytes
  • => RuleId size fixed to 8 bits
  • => Smaller ACK: better network downlink capacity

• Multicast proposition

• Moved Julien C. from Editor to Contributor
## Technical details - Regular fragments

<table>
<thead>
<tr>
<th>LoRaWAN Header</th>
<th>LoRaWAN payload (231 bytes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+---------------</td>
<td>-----------------------------</td>
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<tr>
<td></td>
<td>FOpts</td>
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<tr>
<td>+ -------- + ---------- + ------ + ------ + ------ + --------- +</td>
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</tr>
<tr>
<td></td>
<td>4 bytes</td>
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<tr>
<td>+ -------- + ---------- + ------ + ------ + ------ + --------- +</td>
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<td>XXXX</td>
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</tbody>
</table>

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`draft-ietf-lpwan-gas-factory-007`
Multicast

• IPv6 and LoRaWAN are multicast
• Selected fragmentation mode: No-Ack
  • => No reliability ensured by SCHC layer
• Group definition and LoRaWAN rendez-vous for class A device are out of scope.
• OPTIONAL feature
IID

- It is RECOMMENDED to create Interface IDentifier following {{I-D.ietf-lpwan-ipv6-static-context-hc}}, [rfc7217] and [rfc8064].

⇒ Should we add more context?
⇒ Remove rfc8064 or add rfc8065?
Planned changed in draft -05

- IID: RECOMMENDED to use RFC7217 and RFC8064
- Document cleanup and typo fixing
- Find a shepherd?
- Feedback before WG last call?
Thank you for your attention