

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

LoRaWAN Header		LoRaWAN payload (231 bytes)				
	FOpts	RuleID	W	FCN	23 tiles	
	4 bytes	1 byte	2 bits	6 bits	230 bytes	
XXXX	0x12345678	20	0b00	63	XXXX	

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