

LPWAN WG

WG Chairs:

Alexander Pelov <a@ackl.io>

Pascal Thubert <pthubert@cisco.com>

AD: Eric Vyncke

<evyncke@cisco.com>

Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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Definitive information is in the documents listed below and other IETF BCPS. For advice, please talk to WG chairs or ADs:

[BCP 9](#) (Internet Standards Process)

[BCP 25](#) (Working Group processes)

[BCP 25](#) (Anti-Harassment Procedures)

[BCP 54](#) (Code of Conduct)

[BCP 78](#) (Copyright)

[BCP 79](#) (Patents, Participation)

<https://www.ietf.org/privacy-policy/> (Privacy Policy)



I E T F

Reminder:

Minutes are taken *

This meeting might be recorded **

Presence is logged ***

- * Please contribute to the minutes at: <https://codimd.ietf.org/notes-ietf-interim-2020-lpwan-13-lpwan#>
- ** Recordings and Minutes are public and may be subject to discovery in the event of litigation.
- *** From the Webex login

Agenda bashing



- [16:05] Administrivia [10min]
- o Note-Well, Scribes, Agenda Bashing
 - o WG Status, IETF 109 Prep
- [16:15] SCHC over LoRaWAN [10min]
- [16:25] SCHC over PPP
[15min]
- [16:40] Open Bar / AOB
- [QS]

WG Status

Milestones

Date	Milestone	
Jul 2021	Produce a Standards Track document to enable operations, administration and maintenance (OAM) to the LPWAN device, including support for delayed or proxied liveness verification (Ping)	
Feb 2021	Produce a Standards Track document to define the generic data models to formalize the compression and fragmentation contexts for LPWANs	
Dec 2020	Produce Standard Track documents to apply SCHC IPv6/UDP over the baseline technologies	
May 2020	Perform SCHC Maintenance, including enabling SCHC mechanisms for Upper layer Protocols	

Documents advancement

Document	Date	Status	IPR	AD / Shepherd
Active Internet-Drafts (5 hits)				
draft-ietf-lpwan-coap-static-context-hc-15 LPWAN Static Context Header Compression (SCHC) for CoAP	2020-07-03 30 pages	IESG Evaluation::Revised I-D Needed for 68 days Submitted to IESG for Publication: Proposed Standard Reviews: genart, iotdir, opsdir, secdir, tsvalt		Éric Vyncke Pascal Thubert
draft-ietf-lpwan-schc-over-lorawan-10 Static Context Header Compression (SCHC) over LoRaWAN	2020-09-18 26 pages New	In Last Call (ends 2020-10-02) for 4 days Submitted to IESG for Publication: Proposed Standard Reviews: iotdir, tsvalt		Éric Vyncke Dominique Barthel
draft-ietf-lpwan-schc-over-nbiot-05 SCHC over NB-IoT	2020-07-13 23 pages	I-D Exists WG Document		Éric Vyncke
draft-ietf-lpwan-schc-over-sigfox-05 SCHC over Sigfox LPWAN	2020-07-13 13 pages	I-D Exists WG Document		Éric Vyncke
draft-ietf-lpwan-schc-yang-data-model-03 Data Model for Static Context Header Compression (SCHC)	2020-07-10 42 pages	I-D Exists WG Document		Éric Vyncke
RFCs (2 hits)				
RFC 8376 (was draft-ietf-lpwan-overview) Low-Power Wide Area Network (LPWAN) Overview	2018-05 43 pages	Informational RFC		Suresh Krishnan Alexander Pelov
RFC 8724 (was draft-ietf-lpwan-ipv6-static-context-hc) SCHC: Generic Framework for Static Context Header Compression and Fragmentation	2020-04 71 pages	Proposed Standard RFC		Suresh Krishnan Pascal Thubert
Related Internet-Draft (1 hit)				
draft-thubert-lpwan-command-reg-01 Command and Control Registry for SCHC	2020-03-25 4 pages Expires soon	I-D Exists		

draft-thubert-intarea-schc-over-ppp

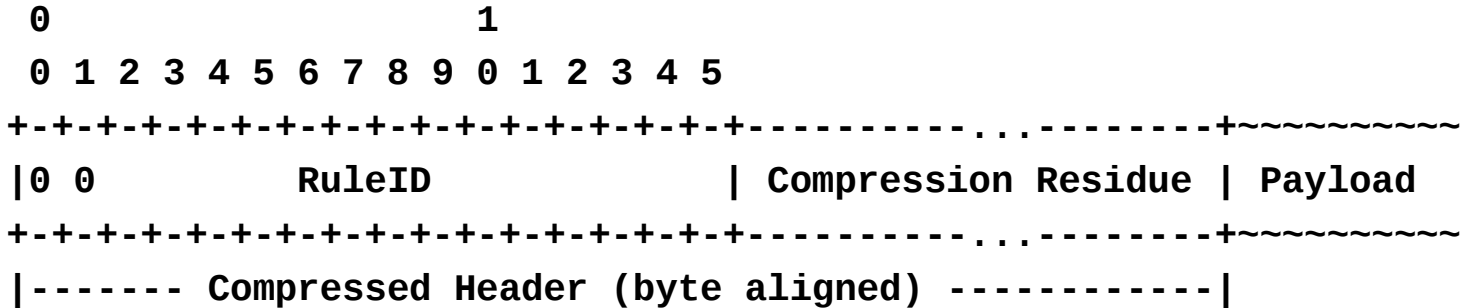
Editor:

Pascal Thubert(pthubert@cisco.com)

Interim meeting, June 30nd, 2020

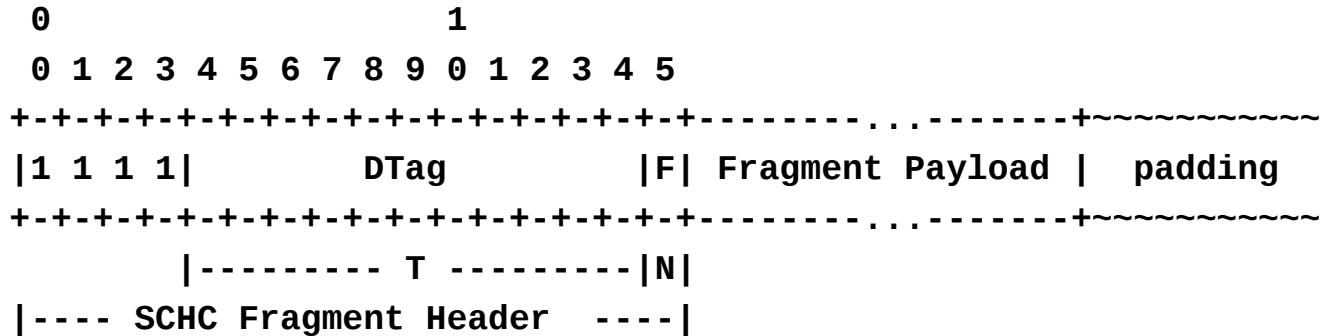
Draft status: RuleID Numbering Scheme

- 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.



Draft status: fragmentation

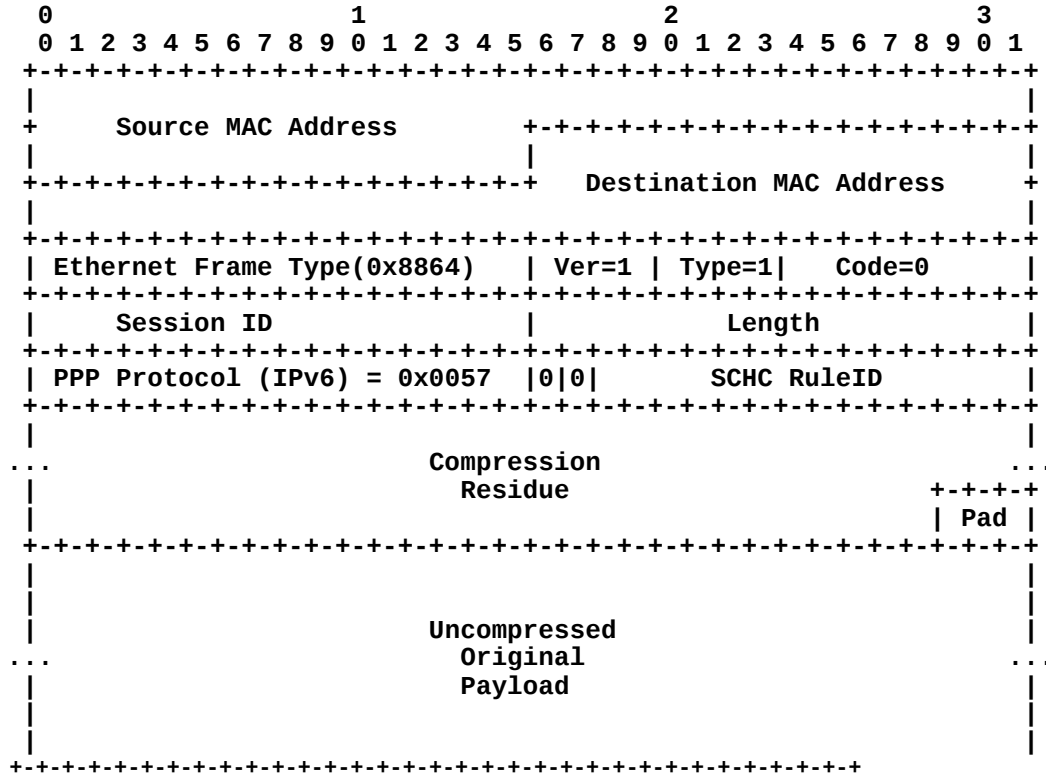
- Only No-Ack mode => packet order must be respected
 - If used with DetNet => may require PREOF reordering
- The RuleID for a fragmentation rule is expressed as 4 bits
 - Reserved 1111 for NO ACK



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)



AOB ?