LPWAN WG

WG Chairs:
Alexander Pelov <a@ackl.io>
Pascal Thubert <pthubert@cisco.com>

AD: Suresh Krishnan
<suresh@kaloom.com>

Webex

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.

As a reminder:

- By participating in the IETF, you agree to follow IETF processes and policies.
- If you are aware that any IETF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion.
- As a participant in or attendee to any IETF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public.
- Personal information that you provide to IETF will be handled in accordance with the IETF Privacy Statement.
- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this.

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 ***

*   Scribe; please contribute online to the minutes at: https://etherpad.tools.ietf.org/p/lpwan
**   Recordings and Minutes are public and may be subject to discovery in the event of litigation.
*** From the Webex login

Agenda bashing

The general agenda for all meetings is as follows:
[16:05] Administrivia   [5min]
   o   Note-Well, Scribes, Agenda Bashing
   o   Status of drafts

[16:10] Status of SCHC draft (IPv6/UDP)   [10min]
[16:20] Status of SCHC draft (CoAP)   [10min]
[16:30] SCHC over LoRaWAN   [25min]
[16:55] AOB   [5min]

WG progress

Milestones

Date	Milestone
Nov 2019	Submit CoAP compression mechanism to the IESG for publication as a Proposed Standard draft-ietf-lpwan-coap-static-context-hc
Done	Submit IP/UDP compression and fragmentation mechanism to the IESG for publication as a Proposed Standard draft-ietf-lpwan-ipv6-static-context-hc
Done	Submit LPWAN specification to the IESG for publication as an Informational Document
Done	Adopt CoAP compression mechanism as a WG item
Done	Adopt IP/UDP compression and fragmentation mechanism as a WG item
Done	Adopt LPWAN specifications as WG item

draft-ietf-lpwan-ipv6-static-context-hc IESG review status

Authors:
Laurent Toutain <Laurent.Toutain@imt-atlantique.fr>
Carles Gomez <carlesgo@entel.upc.edu>
Ana Minaburo <ana@acklio.io>
Dominique Barthel <dominique.barthel@orange.com>
Juan Carlos Zuniga <juancarlos.zuniga@sigfox.com>

IESG review status

- SCHC draft on IESG telechat agenda Aug 22nd
  - Burst of IESG reviews shortly before that day
  - https://datatracker.ietf.org/doc/draft-ietf-lpwan-ipv6-static-context-hc/ballot/
  - Originally 3 DISCUSSes, 7 "No Objection", 1 "YES"
- Acted on Eric Vyncke's comments, DISCUSS cleared Aug 22nd
- Worked on other comments, proposing changes or explaining position
- IESG members less reactive since telechat
- Co-authors phone conf on Sept 15th
  - Discussed pending issues, distributed work among co-authors
- A short pause on my side since then
- Spontaneous comments by Brian Carpenter Sept 26th

Static Context Header Compressi...
draft-ietf-lpwan-ipv6-static-context-hc-21

Status | IESG evaluation record | IESG writeups | Email e...

Discuss
Roman Danyliw
Benjamin Kaduk

Yes
Suresh Krishnan

No Objection
Deborah Brungard
Alissa Cooper
Mirja Kühlewind
Barry Leiba
Alexey Melnikov
Alvaro Retana
Adam Roach
Éric Vyncke

No Record
Ignas Bagdonas
Warren Kumari
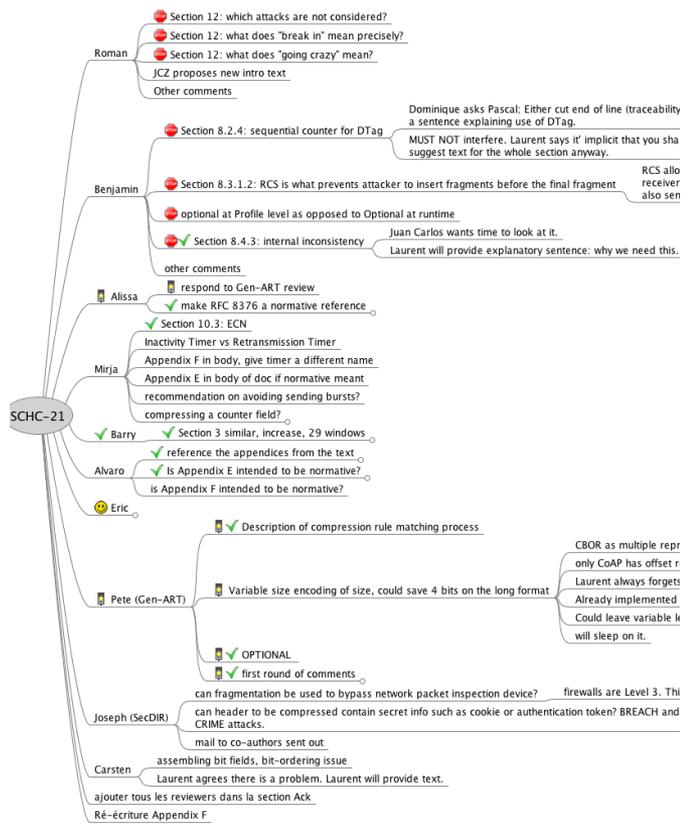Martin Vigoureux
Magnus Westerlund

Work setup

- 9 reviews being worked on
- Keeping track of all comments and proposed changes
- Editing separate git branches for change-extensive reviews, e.g.
  - https://github.com/lp-wan/ip-compression/compare/master...PeteResnick
- Trying to get approval before committing into next draft revision
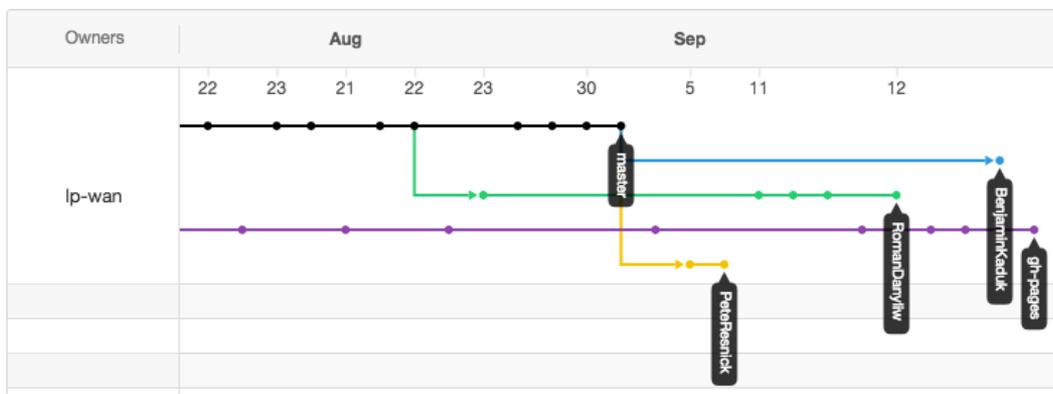
Comments, by topic

- Editorship
  - Normative language: OPTIONAL; at Profile level or at runtime?
  - Appendices E, F: unclear if normative or not.
  - RFC 8376 to be made normative ref.
- Content
  - Security considerations: major improvement on-going
  - Interactions with lower layer: bidirectional link, queue overload
  - Introduction section: some rework
- Technical
  - Subject to BREACH/CRIME-like attacks on compression?
  - Can fragmentation be used to bypass firewalls?
  - Privacy issues with Dtag being a sequence counter
  - IPv6 Flow Label compression
  - Variable length encoding
  - …

Next steps

- Resume editor work
- Integrate contributions by co-authors
- Get reviewers attention and approval
  - Merge git branches as changes are accepted
  - Resolving any conflicts
- OR, publish new revision anyway
  - which might get their attention

- Recommendations?

Thank you!

draft-ietf-lpwan-schc-over-lorawan

Authors:
Ivaylo Petrov <ivaylo@ackl.io>
Olivier Gimenez <ogimenez@semtech.com>
Julien Catalano <j.catalano@kerlink.fr>

IETF Virtual Interim, Oct 9th, 2019

Overview

- What has happened since IETF105?
  - work on v03 that addresses WG comments about FPort usage to represent most of the RuleId

Changes

- Authorize the use of whole allowed range of FPorts [1:223] for RuleId
- Merged again FPortUpDefault and FPortUpShort
- Tried to alleviate the confusion around FPorts and RuleId
- Tile size fixed at 5 bytes
- DTag size changed to 0 bits, clarified interleaving packets
- Use of MUST/RECOMMEND/SHOULD as appropriate

draft-ietf-lpwan-schc-over-lorawan

More changes

- Updated terminology to be compatible with v21 of the SCHC draft.
- More detailed examples with part of LoRa header structures.
- Improved language and formatting.
- Updated the draft template.
- Added Julien Catalano as an author

draft-ietf-lpwan-schc-over-lorawan

Next steps

- Have some reviews
- Finish IID computation section (looking at RFC8065 and others for that)
- Be ready for WGLC by next IETF

draft-ietf-lpwan-schc-over-lorawan

Questions?

Thank you for your attention

draft-ietf-lpwan-schc-over-lorawan

AOB ?