

LPWAN WG

WG Chairs:

Alexander Pelov <a@ackl.io>

Pascal Thubert <pthubert@cisco.com>

AD: Suresh Krishnan
<suresh@kaloom.com>

Note Well

Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:

- The IETF plenary session
- The IESG, or any member thereof on behalf of the IESG
- Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
- Any IETF working group or portion thereof
- Any Birds of a Feather (BOF) session
- The IAB or any member thereof on behalf of the IAB
- The RFC Editor or the Internet-Drafts function

All IETF Contributions are subject to the rules of [RFC 5378](#) and [RFC 8179](#).

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult [RFC 5378](#) and [RFC 8179](#) for details.

A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.



A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.

Reminder:

Minutes are taken *

This meeting is 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

17:05	Opening, agenda bashing (Chairs) <ul style="list-style-type: none">• Note-Well, Scribes, Agenda Bashing, Approval minutes from last meeting• Review todo• Status of drafts	10mn
17:15	SCHC WGLC	30mn
17:45	CoAP SCHC	15mn
17:55	AOB	5mn

Last meeting Action items

- Reviews from
 - ~~Dominique Barthel~~
 - ~~Edgar Ramos~~
 - Juan Carlos Zuniga

draft-ietf-lpwan-ipv6-static-context-hc-09

Authors:

Ana Minaburo <ana@ackl.io>

Laurent Toutain <laurent.toutain@imt-atlantique.fr>

Carles Gomez <carlesgo@entel.upc.edu>

Tickets open:



<https://trac.ietf.org/trac/lpwan/>

Ticket	Résumé
#2	Rule ID default size
#3	Zip bomb
#4	DNS lookup
#5	Decoupled Fragmentation and SCHC compression
#6	Full used window All-0 or All-1
#7	Hop Limit default values
#8	Different Rule ID's with same DTAG
#9	Reordering between RGW and NGW
#11	ACK format
#10	Interleave different packets
#12	Padding place

Do we request publication after changes?

THANKS

Questions?

draft-ietf-lpwan-coap-static-context-hc-02

Authors:

Ana Minaburo <ana@ackl.io>

Laurent Toutain <laurent.toutain@imt-atlantique.fr>

Going Forward...

- Update the draft-coap to be complied with SCHC updates
- Add more examples with options
- Are there other options needed for the LPWAN networks?

THANKS

Questions?

AOB ?

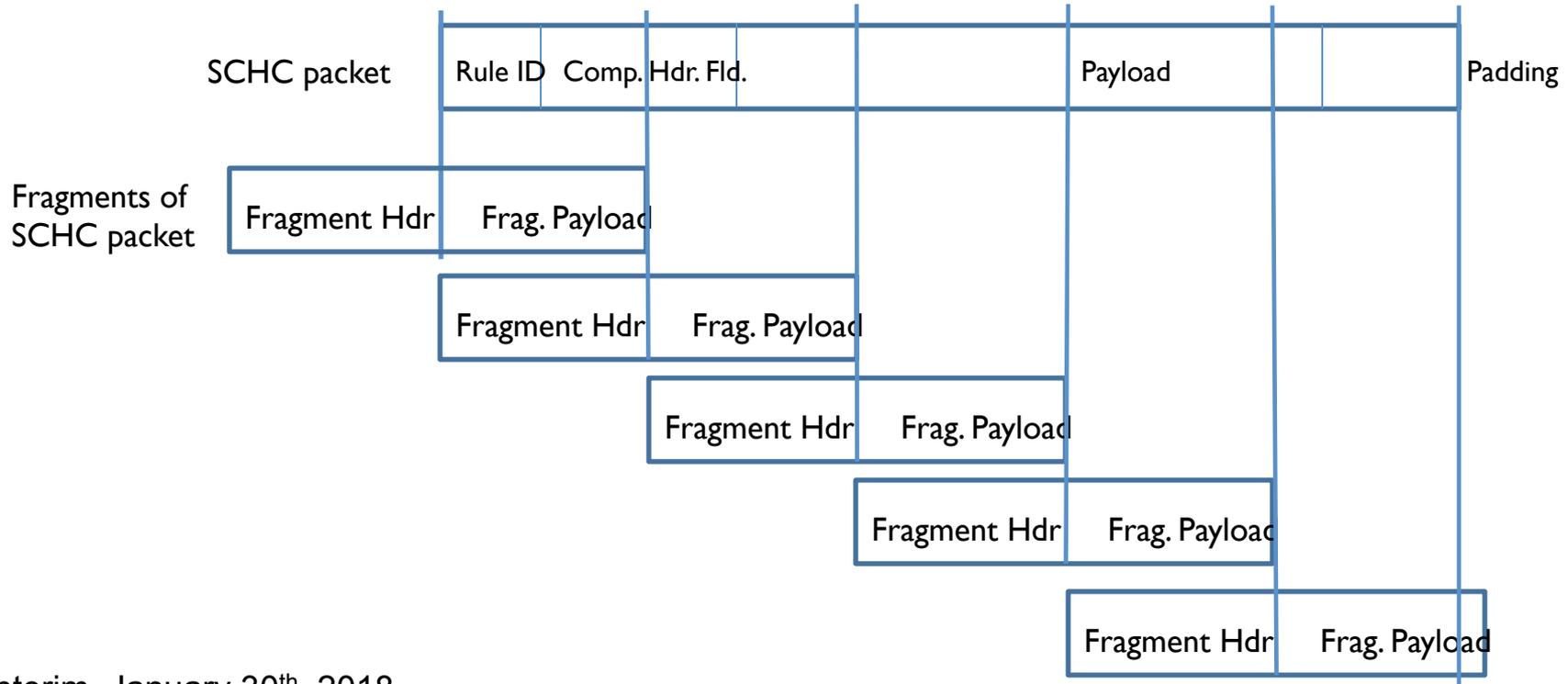
APPENDIX : Points from last time

Reviews Inputs (I)

- First Thanks to all of you that have read it and give updates and questions: Stephen Farrell, Pascal Thubert, Soichi Sakane, Rahul Jadhav
- Zip Bomb => In the Security part 8.1 cover with “never re-construct a packet bigger than some configured size (with 1500 bytes as a good generic default)”=> ok
- Benefit to have DNS oriented => Out of Scope?
- Simplify Abstract => ok
- To be self-enough do we need to add a rule ID default size?
- Decoupled Fragmentation and SCHC compression => Non
- To leave it clear that Fragmentation and Compression are not decoupled because
 - Different location implies different SCHC instances in the architecture, do we want to define this?
 - Architecture Modification is an implementation issue
- For the Dev only the Rule ID is needed => YES
- DNS lookup => Out of Scope?
- We are obligated to have a full used window All-0 or All-1 => some FCN may be not used
- Hop Limit value is constant => We do not know, it depends on the Rule, there are not default values
- Different Rule ID's with same DTAG => yes, it is possible
- Delete the constraint of: non reordering? => Full agree

Reviews Inputs (2)

- Interleave=> You can multiplex the RuleID
- Fragment Format: Figure 4 and figure 6 representation together



Reviews Inputs (3)

- Padding on ACK=> Yes because bitmap is not always multiple of 8 and Rule ID neither
- Padding between SCHC header and Payload=> Non
- Different Rule ID for each fragments=> Non, The same Rule ID is used for all the fragments, different RuleID for different packets or behaviors
- Rule ID is used to determine the packet the fragment belong to?=> Rule Id and DTAG
- CDA variable values: 15 to 255 first 4 bits sent to I and size using 8 bits
 - First 4 bits means LSB? => Yes
 - The size in 8 bits includes the first 4 bits? => Non
- SCHC context update=> Is not defined, a new work item?
 - SCHC context synchronization is not defined, how to manage when the RuleID does not exist ? => You send without compression
 - One way I could think of to handle this is to change the rule-id when the SCHC context is changed. I don't know if this needs proper handling or some text in the draft. => YES
- Dissector WIRESHARK ?=> I do not know

Reviews Inputs (4)

- Multiple rules in the same flow => Yes
- I do not think that the spec mandates that only a single rule be made use of for all the packets in the given flow => Yes, it is right we work by packet and not by flow
- Add and appendix with SCHC compressed byte payload examples=> Yes, good idea
- Dev 'may' implement SCHC=> Is not MUST because we have legacy devices
- Implementers may have a handle to choose the best Rule to use for a packet, when multiple rules matches the packet. => YES
- Can the actual byte payload be specifies along with the rule based examples in the appendix? => Yes, we can