

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

17:00	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
17:10	LPWAN Overview - WGLC status and updates	5mn
17:15	Update on SCHC fragmentation (Ana)	10mn
17:25	Finite State Machine Discussion (Laurent)	20mn
17:45	Update on adding a length field for rules (Arun)	10mn
17:50	CoAP Timescale (Laurent)	5mn
17:xx	AOB	QS

Last meeting Action items

- ~~Chairs to send IPR statement request on Mailing List~~
 - Answer from most participants on the ML
- ~~Laurent to reformat his FSM in 16*9 with just $W=X$~~

LPWAN Overview

Editor: Stephen Farrell
(many contributors)

WGGLC status and updates

- Stephen pushed out the new rev now
- Then chairs to shoot in the pub-req

Update on SCHC fragmentation draft-ietf-lpwan-ipv6-static-context-hc-06

Authors:

A. Minaburo L. Toutain C. Gomez

Updates:

- Clearly define that fragmentation is done after SCHC compression
- Fragmentation is used for SCHC compressed datagrams and IPv6 datagrams when SCHC cannot be used
- Send some text to the general introduction
- Reducing the explanation of the 3 fragmentation modes
- Trying to bring a more clear description of the fragmentation baseline protocol

Updates:

- We find that:
 - No ACK
 - Window mode – ACK on error
 - Window mode – ACK “always”
 - IT IS DIFFICULT TO READ WITH SO LONG NAMES,
HOW ABOUT USING :
 - No ACK instead of No ACK
 - ACK on error instead of Window mode – ACK on error
 - ACK always instead of Window mode – ACK “always”

Missing Updates

- We need to add Laurent modifications
- We need to add state machine and its description

Thanks

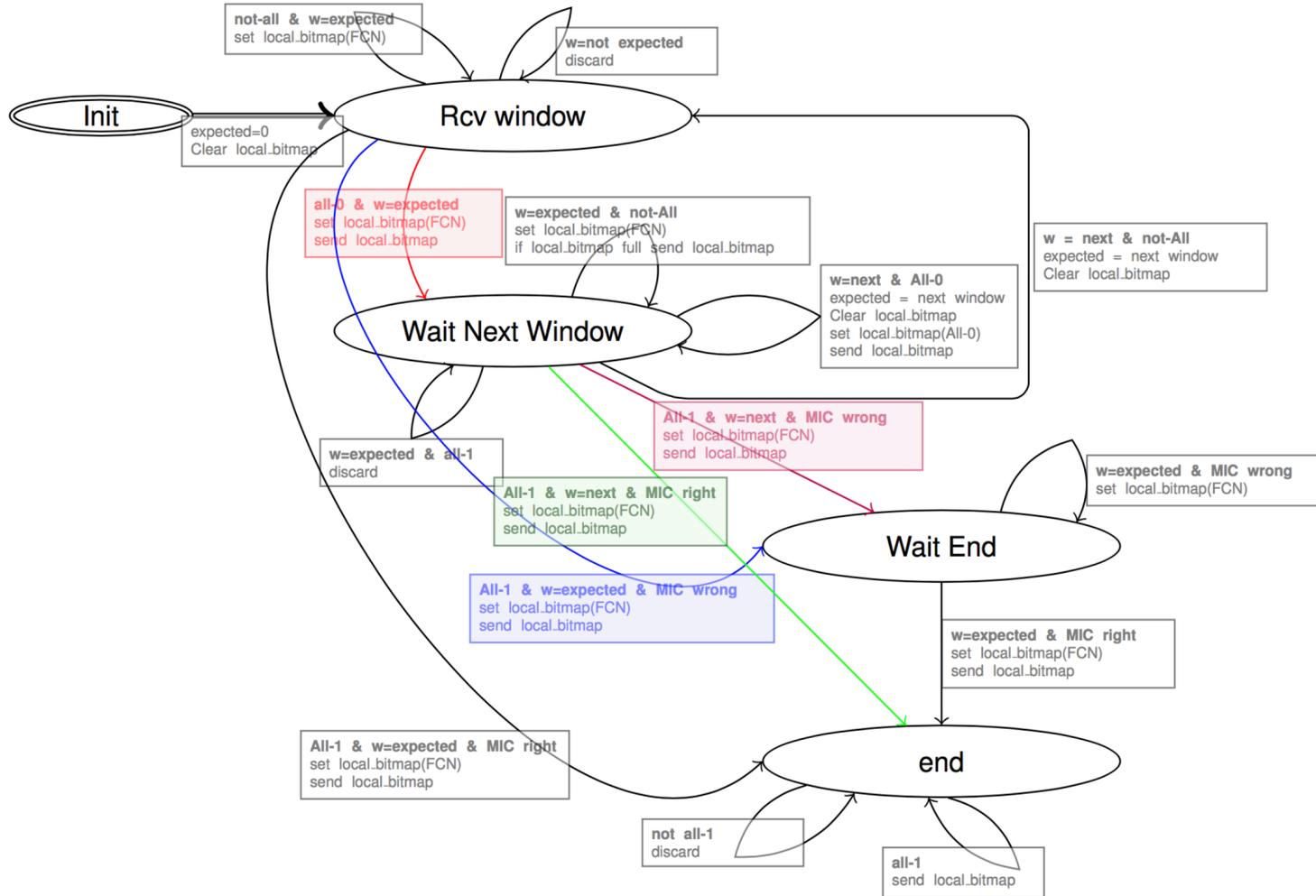
Fragmentation FSM

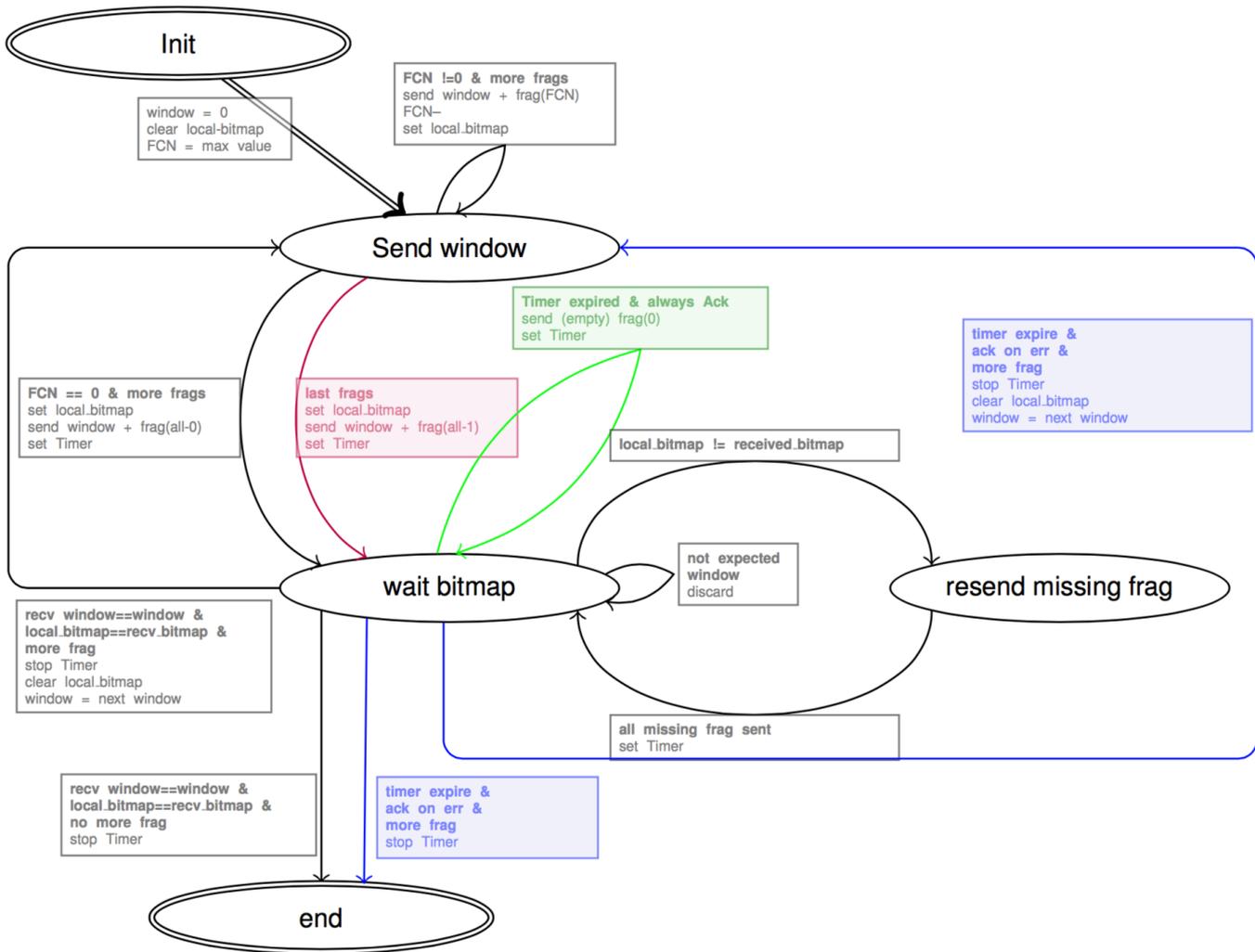
draft-ietf-lpwan-ipv6-static-context-hc

Authors:

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

Ana Minaburo <ana@ackl.io>





Representing Length field in the Schc rule

ana, arun at ackl.io
laurent.toutain at imt-atlantique.fr

proposals

	1	2	3	4
Representation	New Column in Rule	New Column in Rule	New MO	two New MO
Variable length field	var/func	"variable"	check_len(len)	check_len(len); msb_checklen(len, msb)
Static length field	actual_len	other means	other means	other means
++	<ul style="list-style-type: none"> simpler, flexible; 	flexible;	<ul style="list-style-type: none"> no new column in rule; 	<ul style="list-style-type: none"> no new column in rule;
--	additional space for each field	<ul style="list-style-type: none"> additional space for each field; complexity to retrieve the len by other means; 	<ul style="list-style-type: none"> complexity to retrieve the len by other means; cannot handle LSB; handles only variable len fields that has fixed values. 	<ul style="list-style-type: none"> complexity to retrieve the len by other means; additional space for variable length fields; handles only variable len fields that has fixed values.

Consensus?

- Thanks to Ana, Laurent, Pascal for valuable inputs to discussion.
- consensus to have one separate column for "Length" (as in proposals 1,2)?
- Tie-breaker would be the degree of simplicity.(proposal 1).

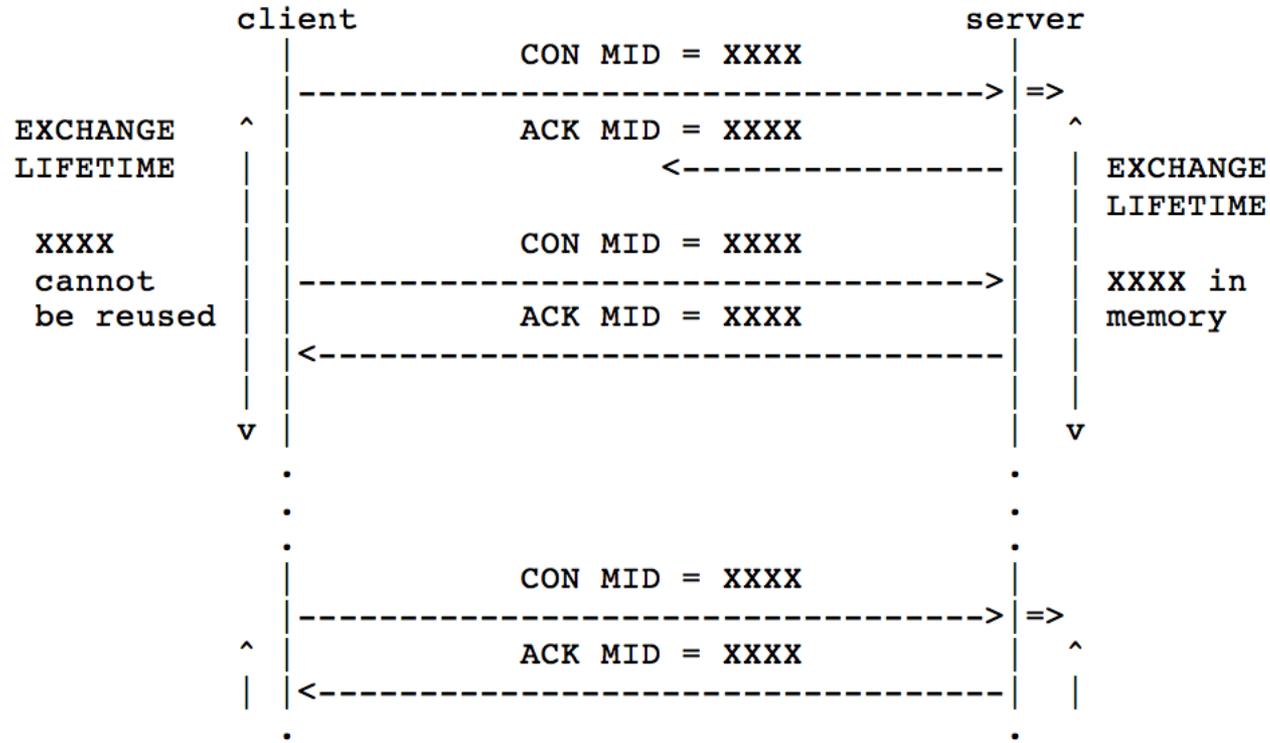
Thanks!
Comments?

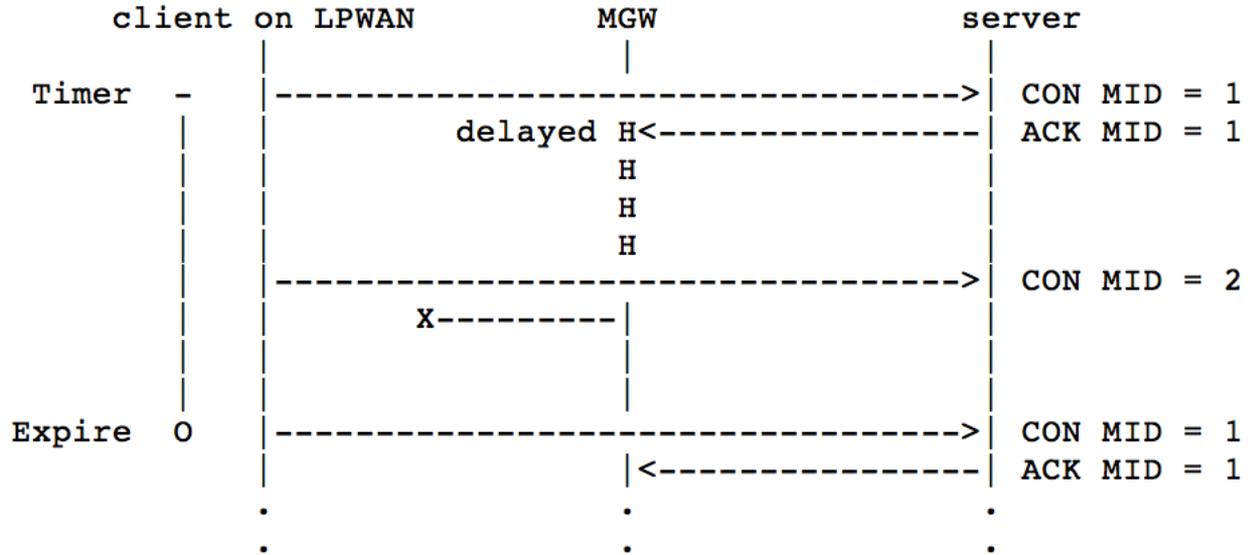
Time Scale Opton draft-toutain-core-time-scale

Authors:

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

Ana Minaburo <ana@ackl.io>





Number	C	U	N	R	Name	Format	Length	Default
259	X				Time Scale	uint	1-4	

Figure 4: Time Scale Option.

AOB ?