

# LPWAN WG

WG Chairs:

Alexander Pelov <a@ackl.io>

Pascal Thubert <pthubert@cisco.com>

AD: Suresh Krishnan  
<suresh@kaloom.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.
- 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)

## 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

17:05	Opening, agenda bashing (Chairs) <ul style="list-style-type: none"><li>• Note-Well, Scribes, Agenda Bashing</li><li>• Last time todos</li><li>• Status of drafts</li><li>• IETF 104</li></ul>	10mn
17:15	draft-barthel-oam-schc (Dominique)	10mn
17:35	Wg next steps (chairs)	35mn
17:45	AOB	15mn

# Last meeting Todos

- Pascal to send Charter v2 to mailing list  
=> Done

# WG progress

## Milestones

Date	Milestone
Nov 2019	Submit CoAP compression mechanism to the IESG for publication as a Proposed Standard <a href="#">draft-ietf-lpwan-coap-static-context-hc</a>
Done	Submit IP/UDP compression and fragmentation mechanism to the IESG for publication as a Proposed Standard <a href="#">draft-ietf-lpwan-ipv6-static-context-hc</a>
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

# IETF 104 (1/2)

Sessions – View (meeting: 104)	
Working Group Name:	IPv6 over Low Power Wide–Area Networks (Ippan)
Area Name:	Internet Area
Number of Sessions Requested:	1
Length of Session 1:	2 Hours
Number of Attendees:	75
Conflicts to Avoid:	First Priority: 6lo roll rift 6tisch core intarea Second Priority: cbor suit lwig netconf detnet Third Priority: ace bier 6man
Other WGs that included IPv6 over Low Power Wide–Area Networks in their conflict list:	6lo, intarea, lwig, cbor, 6tisch, cose, roll
Resources requested:	<i>None so far</i>
People who must be present:	<ul style="list-style-type: none"> <li>▪ Suresh Krishnan</li> <li>▪ Pascal Thubert</li> <li>▪ Alexander Pelov</li> </ul>
Special Requests:	The PAW BoF MUST be avoided as well

# IETF 104 (1/2)

- 2018-12-31 (Week of): IETF Online Registration Opens.
- 2019-02-04 (Monday): Early Bird registration and payment cut-off at UTC 23:59.
- 2019-02-08 (Friday): Cut-off date for BOF proposal requests to Area Directors at UTC 23:59. To request a BOF, please see instructions on [Requesting a BOF](#).
- 2019-02-08 (Friday): Cut-off date for requests to schedule Working Group Meetings at UTC 23:59. To request a Working Group session, use the [IETF Meeting Session Request Tool](#).
- 2019-02-15 (Friday): Cut-off date for Area Directors to approve BOFs at UTC 23:59.
- 2019-02-22 (Friday): Preliminary Agenda published for comment.
- 2019-02-27 (Wednesday): Cut-off date for requests to reschedule Working Group or BOF meetings UTC 23:59.
- 2019-03-01 (Friday): Final agenda to be published.
- 2019-03-11 (Monday): Internet Draft submission cut-off (for all drafts, including -00) by UTC 23:59. Upload using the [ID Submission Tool](#).

# draft-barthel-lpwan-oam-schc-00

Authors:

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

Arunprabhu Kandasamy <Arun@ackl.io>

Diego Dujovne <Diego.Dujovne@mail.udp.cl>

Juan Carlos Zuniga <JuanCarlos.Zuniga@sigfox.com>

Dominique Barthel <Dominique.Barthel@orange.com>

# History

- Two drafts on ICMPv6 presented at IETF100 Singapore and IETF101, London
- Then joined forces to work on one single draft.
- Work put aside to finish ipv6-static-header-hc draft

# Purpose

- General interest in OAM for IoT
- Start with simple stuff
  - ICMPv6 error messages
  - Ping
  - Traceroute
- Use-cases discussion
  - what messages should go on the LPWAN or be proxied at the Core
- Header Compression
  - Focus on RFC4443

# Status

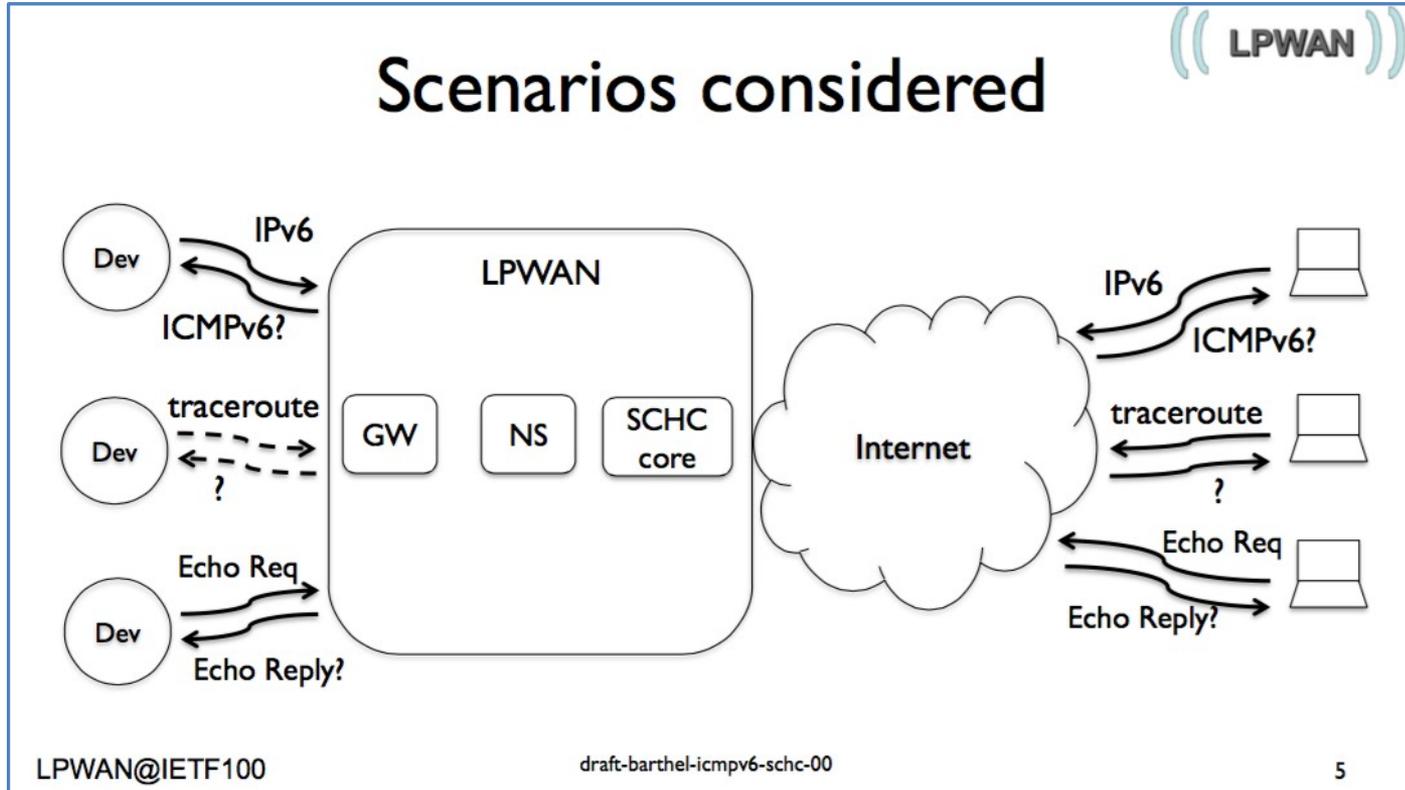
- New draft introduces OAM for IoT
- Only keeps of Echo Request Code 0
  - Responded to by SCHC Core if Echo Request issued from internet

# Next steps

- Discuss use cases on mailing list
  - More simple OAM stuff for IoT networks?
- Implement compression Rules and experiment

Thank you!

# Slide from IETF100



# WG Next steps

# Tentative schedule

- February 15<sup>th</sup>
  - Recharter
- By IETF 104 cutoff:
  - All SCHC over foo docs refreshed
  - ICMP / management draft?

**AOB ?**