



Reliable and Available Wireless

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Virtual IETF 107 – March 24, 2020

IETF 107 Virtual Meeting Tips

<https://www.ietf.org/how/meetings/107>

<https://datatracker.ietf.org/meeting/agenda>



- **This session is being recorded**
- **Make sure your video is off**
- **Mute your microphone unless you are speaking**
- **Use Webex chat only to join the mic queue**
 - “+q” adds you to the queue
 - “-q” removes you from the queue
- **Add your name and affiliation to the virtual Bluesheet**
 - <https://etherpad.ietf.org/p/notes-ietf-107-raw>
- **Join the session Jabber room:**
 - <xmpp:raw@jabber.ietf.org?join>



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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- As a participant or attendee, you agree to work respectfully with other participants; please contact the ombudsteam if you have questions or concerns about this (<https://www.ietf.org/contact/ombudsteam/>)



Note Well - Policies

<https://ietf.org/policies>

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)



Administrivia

- Live Minutes and virtual Bluesheet:
 - Etherpad: <https://etherpad.ietf.org/p/notes-ietf-107-raw>
- Remote participation:
 - WebEx:
<https://ietf.webex.com/ietf/j.php?MTID=m5546ad84a1bb8b9090eca8db77027a09>
 - Meeting access code: 313 121 271
 - Meeting passwd: vPq8ijPu53B
 - Jabber: <xmpp:raw@jabber.ietf.org?join>
- Mailing list:
 - raw@ietf.org
 - To subscribe: <https://www.ietf.org/mailman/listinfo/raw>
- Meeting materials:
 - <https://datatracker.ietf.org/meeting/107/materials.html/#raw>
 - One set of slides per presentation

Agenda



20:00	Intro	Chairs * WebEx tips, note well, bluesheets, scribes * Agenda bashing * Charter, milestones, questions	[10mn]
20:10	Use cases	Carlos Bernardos draft-bernardos-raw-use-cases-03	[20mn]
20:30	LDACS	Nils Maeurer draft-maeurer-raw-ldacs-01	[20mn]
20:50	5G	Janos Farkas draft-farkas-5g-raw-00	[20mn]
21:10	Pareo	Georgios Papadopoulos draft-papadopoulos-raw-pareo-reqs-01	[15mn]
	OAM	draft-theoleyre-raw-oam-support-01	[10mn]
21:35	Discussion	Chairs	[25mn]



RAW Charter

High reliability & availability for IP connectivity over a wireless medium

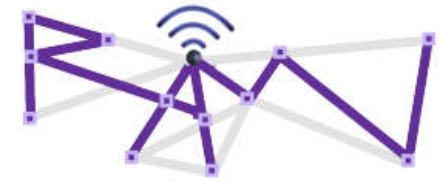
- Motivation
 - Wireless use cases not originally covered in DetNet, e.g.,
 - Aeronautical data comms, industrial, pro audio and video, gaming, and edge robotics
 - Reliability use cases not covered in MANET
- Problem statement
 - Difficult to achieve deterministic properties over wireless, e.g., low packet error rate, bounded consecutive losses, bounded latency, etc.
- RAW extends the DetNet WG concepts
 - Utilize scheduled wireless segments and other media, e.g., frequency/time-sharing physical media resources with stochastic traffic



RAW Charter (*continued*)

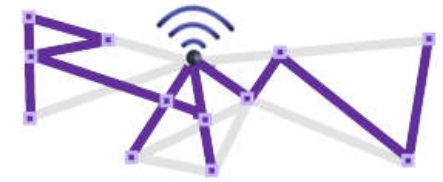
High reliability & availability for IP connectivity over a wireless medium

- Technologies focus
 - IEEE 802.15.4 Timeslotted channel hopping (TSCH)
 - IEEE 802.11ax/be (WiFi)
 - L-band Digital Aeronautical Communications Systems (LDACS)
 - 3GPP 5G ultra-reliable low latency communication (URLLC)
- Coordination
 - IETF WGs: DetNet, MANET (e.g., dynamic link exchange protocol – DLEP), etc.
 - Other SDOs: 3GPP, IEEE, Aeronautical industry
- Short timeframe (12-18 months)
 - Informational RFCs for now



Milestones

Date	Milestone
Sep 2020	Working Group Adoption of <i>Use Cases</i> Document
Sep 2020	Working Group Adoption of <i>Requirements</i> Document
Nov 2020	Use Cases Document submit to IESG
Nov 2020	Working Group Adoption of <i>Architecture/Framework Aspects for a Wireless Network</i> Document
Dec 2020	Requirements Document submit to IESG
Dec 2020	Working Group Adoption of <i>Evaluation of Existing IETF Technologies and Gap Analysis</i> Document
Apr 2021	Architecture/Framework Aspects for a Wireless Network Document submit to IESG
Jun 2021	Evaluation of Existing IETF Technologies and Gap Analysis Document submit to IESG



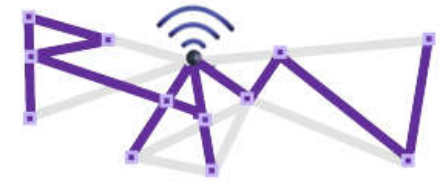
Questions concerning current drafts

Document authors:

- Are you asking for WG adoption of your draft?
- Do you understand what WG adoption means?
- Are you willing to keep working on the draft after adoption?

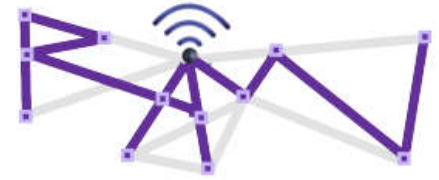
Working group members:

- Is the draft relevant to the WG?
- Is the draft subject in-charter?
- Are you willing to review and comment on the draft if it is adopted?

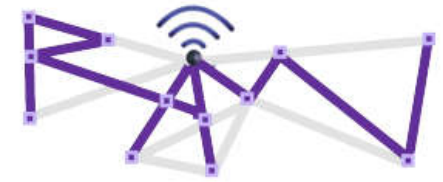


Presentations on Drafts

Additional Drafts



- Reliable and Available Wireless Problem Statement
 - [draft-pthubert-raw-problem-statement-04](#)
- Reliable and Available Technologies
 - [draft-thubert-raw-technologies-04](#)



Discussion