RAW Technologies

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Why this draft?

RAW needs an L3 abstraction for reliable and available parallel paths

Illustrate Recent Progress in multiple radios

- Parallel evolution towards time/frequency “resource blocks” / “RUs” / Timeslots
- Increasing capabilities to schedule (towards determinism)
- Better throughput and higher reliability for 1 hop, latency bounds

Present Technologies elected by RAW to enable WG work

- Wi-Fi 6 and beyond (IEEE Std 802.11ax / be)
- IEEE Std 802.15.4 TSCH
- 3GPP 5G
- LDACS (Air-to-Ground and Air-to-Air plane communication)
Document Status

Document adopted as WG Doc

- Quite complete already
- Not exactly the same structure for all
Per-Technology Section Structure

X. Tech name
• X.1. Provenance and Documents
• X.2. General Characteristics
• X.3. Applicability to deterministic flows

5G has more; emulate in others?
Open discussion

Additions?

- Missing topic (see 5G example next slide)?
- More on RAW problem statement?
  - Right now we have only a discussion on scheduling:

1. Introduction ..................................................
2. Terminology .................................................
3. On Scheduling .............................................
   3.1. Benefits of Scheduling on Wires ............
   3.2. Benefits of Scheduling on Wireless ....
4. IEEE 802.11 .................................................

What Next?

- Maybe a pre WGLC reviewer (or 2)