

IETF 110 Routing Area Open Meeting

DetNet WG Update

AD:

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Chairs:

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Tech Advisor:

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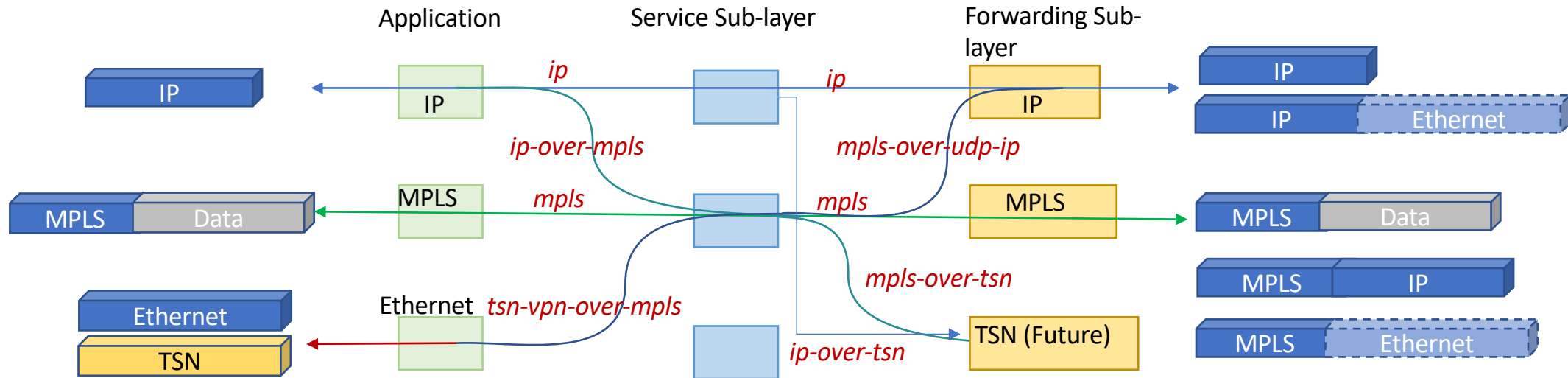
Secretary:

Ethan Grossman (ethan@ieee.org)

WG Information: <https://datatracker.ietf.org/wg/detnet/>

DetNet Base Data Plane Definitions

No new header field in data plane!



- Published

- [RFC 8557](#) Deterministic Networking Problem Statement
- [RFC 8578](#) Deterministic Networking Use Cases
- [RFC 8655](#) Deterministic Networking Architecture
- [RFC 8938](#) Deterministic Networking (DetNet) Data Plane Framework
- [RFC 8939](#) Deterministic Networking (DetNet) Data Plane: IP
- [RFC 8964](#) Deterministic Networking (DetNet) Data Plane: MPLS
 - Includes PREOF (1+1 protection, using DetNet Control Word*)

- RFC Ed Queue

- draft-ietf-detnet-ip-over-mpls
- draft-ietf-detnet-mpls-over-udp-ip
- draft-ietf-detnet-ip-over-tsn
- draft-ietf-detnet-mpls-over-tsn
- draft-ietf-detnet-tsn-vpn-over-mpls
- draft-ietf-detnet-flow-information-model
- draft-ietf-detnet-security

Active WG Topics

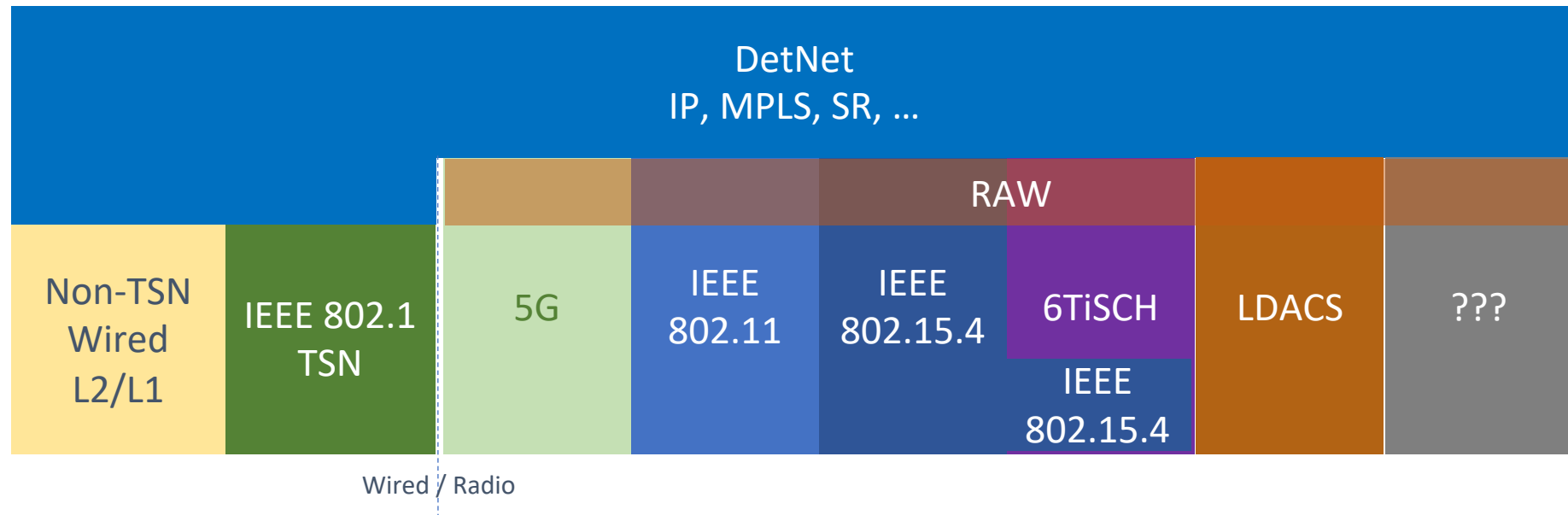
- Post WG LC
 - [draft-ietf-detnet-bounded-latency](#)
- Heading to WG LC
 - [draft-ietf-detnet-yang](#)
- In-progress WG drafts
 - [draft-ietf-detnet-ip-oam](#)
 - [draft-ietf-detnet-mpls-oam](#)
 - [draft-ietf-detnet-controller-plane-framework](#)
- WG adoption call (coming)
 - [draft-tpmb-detnet-oam-framework](#)

Cross WG/Area/SDO Coordination

- MPLS WG
- PALS WG
- PCE WG
- RAW WG
- SPRING WG
- TEAS WG
- TSV WG
- Not yet, but listed in charter
 - CCAMP, IPPM, LSR, PCE, TEAS, RAW
- IEEE 802.1 TSN

DetNet & RAW

- DetNet – RAW & Supporting Technologies
 - Chairs actively coordinating on WG placement of drafts



DetNet & SPRING

- Multiple drafts submitted on using SR to support DetNet services
 - Between 5-10 individual drafts
- WG Chairs discussing on which drafts go where
- Working proposal
 - Use of existing SR formats – in DetNet
 - New SR formats – in SPRING

DetNet & TSVWG

- TSVWG Co-chair (David Black) is our TSV Area Advisor
 - Strongly recommend cross-area advisor when appropriate to WG scope
- One open topic for cross-area AD attention
 - To date DetNet WG has only referenced other standard queuing mechanisms
 - New PS on queuing has been left to other SDOs and the TSV area
- Question to be coordinated:
Who defines DetNet centric queuing mechanisms?
 - TSV WG, DetNet WG, ???
 - DetNet chairs support allowing such work in the IETF

DetNet and IEEE 802.1 TSN

- Good coordination between IETF and IEEE 802
 - Formally and informally through participants
 - IAB – IEEE 802 Coordination
 - Shared DetNet Working Group and TSN Task Group Chair
- Joint Workshop held in November 2018
 - https://1.ieee802.org/november-2018-plenary-meeting-in-bangkok-thailand-tsn-tg-agenda/#Sunday_DetNet_8211_TSN_workshop
- Joint Workshop planned for November 2020 – cancelled
 - To be rescheduled