



# **IEEE 1904.4 25G/50G Task Force**

Opening report

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- Scope
- Timeline
- Draft 0.1
- Gaps/Areas of Focus
- Future meetings

This standard describes the system-level requirements needed to provide service-level, multi-vendor interoperability of Ethernet Passive Optical Network (EPON) equipment. The specifications complement the existing IEEE 802.3<sup>(TM)</sup> and IEEE 802.1<sup>(TM)</sup> standards, which enable the interoperability at the Physical Layer and Data Link Layer. Specifically included in this specification are:

- 25G-EPON and 50G-EPON system-level interoperability specifications covering equipment functionality, traffic engineering, and service-level quality of service/class of service (QoS/CoS) mechanisms;
- Management specifications covering equipment management, service management, and power utilization.

- See [tf4\\_2102\\_timeline\\_draft.pdf](#)

- Approve the P1904.4 timeline as presented in tf4\_2102\_timeline\_draft.pdf

Moved: Marek Hajduczenia

Second: Kevin Noll

(Procedural, > 50%)

All attendees may vote:

**Motion passes by voice vote without opposition**

## □ Review of

[https://www.ieee1904.org/private/4/drafts/D0\\_1/tf4\\_D0\\_1.pdf](https://www.ieee1904.org/private/4/drafts/D0_1/tf4_D0_1.pdf)

- Approve [https://www.ieee1904.org/private/4/drafts/D0\\_1/tf4\\_D0\\_1.pdf](https://www.ieee1904.org/private/4/drafts/D0_1/tf4_D0_1.pdf) as task force draft 0.2 with the following changes:
  - Delete attribute aLidReportThresholds
  - Modify branch values as shown in tf4\_2102\_Kramer\_1.pdf, slide 24
  - Change draft title to match PAR

Moved: Marek Hajduczenia

Second: Curtis Knittle

(Technical,  $\geq 75\%$ )

Only 1904 wg voting members may vote:

**Yes: 4**

**No: 0**

**Abstain: 0**

- ❑ Relative to 1904.1...

Feature in 1904.1	New capabilities or changed behavior in 802.3ca
Multicast provisioning	Based on multicast ULID
Queue service discipline	New behavior due to fragmentation
Report format and queue length calculation	New behavior: gratuitous reports, dynamic reporting priorities
Transceiver status monitoring	Similar, but should be wavelength-specific
Port selective loopback	Maybe different to enable inter-channel loopback
Optical link protection	New behavior in multi-channel PON
Data encryption	New, envelope based
Power saving	New, multi-channel mode
Events and management attributes	New attributes and events/alarms; ULID provisioning; GLID definitions and provisioning, scheduling policies, and member management
Device and capability discovery	New capabilities (fragmentation, multiple channels, etc.)

- ❑ **Possible reuse:** VLAN and tunneling modes; Performance monitoring; ONU authentication; Software update.



- ❑ Low latency x-haul (AKA cooperative transport interface, mobile/PON coordination, Cooperative DBA)

- Propose to move future 1904.4 meetings to Tuesday evenings

- Does anyone have any other business to discuss?



**Thank You**