Question to 50Gbps PCS/PMA

Yuji Watanabe, AGC Inc.
Question to proposed 50Gbps PCS/PMA

My understanding is “a transceiver operated at higher data rate should support lower data rate” in the same standard.

However, different modulation method is proposed for 50G bps

- 2.5G, 5G, 10G, 25G bps: NRZ
- 50G bps: PAM4

I do understand that PAM4 is mandatory to achieve 50Gbps transmission at this moment.
However, 50G bps transceiver should support 25G or lower data rate, and its design become complicated and it is not cost effective.
Is it a right way to have two modulation methods in the same standard?

Straw poll on May 19th shows

Yes: 25, No: 2, Abstain: 21, No vote: 8  Total attendee: 56

The ratio of YES is only 45% of TF members.
I suppose voters abstained may need more information
Is it adequate to adopt PCS/PMA that is not supported by majority of TF?
Proposal

I would like to propose a straw poll asking whether we should have two modulation methods in 802.3cz.

If keeping two modulation methods in 802.3cz is not supported by majority of TF, I would like to propose a motion;

“Remove 50G bps PHY from current Objectives”

because it is too early to standardize 50G bps PHY NOW.
Thank you for your attention.