

802.3ch PHY proposals

Similarities and Differences

Based on May 16, 2018 AdHoc

Relationships between speeds

- All contributors think 5 Gb/s should be a scaled version of 10 Gb/s
 - Some contributors think 2.5 Gb/s should be a scaled version of 10 Gb/s and others think it should be optimized on its own
 - The spec is currently set up with 2.5 Gb/s in its own Clause and 5 Gb/s combined with 10 Gb/s based on potential use cases discussed as a Study Group
- Need rational to combine 2.5 Gb/s with 5 and 10, if desired

May 16 AdHoc Contribution Comparison

Contributor	V p-p	10GBASE-T1 Coding Recommendation	Cable bandwidth required
Farjadrad, Zimmerman	1 V	PAM4	< 3 GHz
Souvignier, Tu	?	PAM4, 32-cross, SDQ-32	2 to 3 GHz
Wu	2 V	?	< 3 GHz
Pandey	1 V	PAM4 or PAM5	< 3 GHz