



**Foundational Objectives:
25 Gb/s Ethernet over a single
lane for server interconnect
Study Group**

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Project Objectives

- The 25 Gb/s Ethernet Study Group was formed based on very strong consensus support at the July CFI presentation.
- Potential project objectives fall into 3 categories
 - Foundational objectives
 - Common objectives consistent with all 802.3 projects
 - Strong Consensus objectives
 - The basis of the CFI work. Backplane, Twin-ax copper cable.
 - Additional Objectives
 - Objectives covering areas not included in the CFI consensus building and presentations
- Presentations to review each of these groups

Foundational Objectives

- Support a MAC data rate of 25 Gb/s
- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
- Support a BER of better than or equal to 10^{-12} at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Support optional Energy-Efficient Ethernet operation

Straw Poll & Motions

Currently planning to vote one motion to adopt all these foundational objectives together later in meeting

For now:

Straw Poll: I support adoption of the objectives listed in [nowell_25GE_01_0914](#)

Y: N: A: