

IEEE 802.3 DMLT Study Group Straw-man Objectives

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Objectives (1)

- Preserve the IEEE 802.3/Ethernet frame format at the MAC client service interface.
- Preserve minimum and maximum frame size of the current IEEE 802.3 standard.
- Preserve use of the Clause 4/4a MAC intact
- Support full duplex operation only.
- Support a speed of 100 Mb/s and above at the MAC/PLS service interface.
- Preserve relevant MAC/PLS service interface.
- Preserve a bit error ratio (BER) of less than or equal to 10^{-10} at the MAC/PLS service interface
- Maintain FCS protection error detection coverage.
- Consider Energy-Efficient Ethernet as appropriate.

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Objectives (2, wordsmith pending)

- Provide affirmative assurance that both end of the link have this capability before operating in this mode. E.g. Capability discovery and configuration.
- Provide two MAC service interfaces, one reduced latency where the reduced latency is capable of providing latency less than one packet transmit time.
 - Optional MAC Control sub-layer shall be confined to the best-effort MAC Service Interface.

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Goals (TB wordsmithed)

- This project will be PHY-type agnostic.

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