

# Possible Objectives for 10 Mb/s TSN Enhancements

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# Work item 2: Objectives for near-term

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- Is this as simple as:
  - Enable use of Clause 146 and Clause 147 point-to-point 10 Mb/s PHYs with Clause 99
- What about half-duplex 10BASE-T1S?
- Or do we have to list out relevant IEEE P802.3br objectives (<https://www.ieee802.org/3/br/8023-DMLT-SG-1309-Winkel-Objectives-v2.3.pdf>):
  1. Preserve the IEEE 802.3 Ethernet frame format at the MAC.
  2. Preserve minimum and maximum MAC frame size of the current IEEE 802.3 standard.
  3. Use the Clause 4/Annex 4A MAC without alteration.
  4. Require no changes to PHYs.
  5. Support full duplex operation only.
  6. Preserve MAC/PLS service interface.
  7. Do not degrade Mean Time to False Packet Acceptance (MTTFPA) at the MAC Service Interface.

# Possible Objectives

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- Is this as simple as:
  - Enable use of Clause 146 and Clause 147 point-to-point 10 Mb/s PHYs with Clause 99
- Possible Objectives
  1. Enable use of Clause 146 and Clause 147 point-to-point full-duplex 10 Mb/s PHYs with Clause 99 MACMERGE
  2. Require no changes to PHYs, Clause 4/Annex 4A MAC, or MAC/PLS Interface
- What about half-duplex 10BASE-T1S?
  - Support full duplex operation only, OR:
  - Craft an additional objective to describe use with half-duplex point-to-point 10 Mb/s PHYs

# Thoughts?

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- (Discussion goes here)