## IEEE P802.3da Objectives

- 1. Define performance characteristics of a mixing segment for 10Mb/s multidrop single balanced pair networks supporting up to at least 16 nodes, for up to at least 50m reach.
- 2. Maintain a bit error ratio (BER) at the MAC/PLS service interface of less than or equal to  $10^{-10}$  on the new mixing segment.
- 3. Specify an optional PLCA node ID allocation method
- 4. Support interoperability with Clause 147 multidrop
- 5. Support optional Time Synchronization Service Interface (TSSI)
- 6. Select a single MDI connector

## IEEE P802.3da Objectives - continued

- 7. Specify improvements for Energy Efficient Ethernet compared to current 10Mb/s multidrop single balanced pair networks
- 8. Support operation in the noise environments for building, industrial, and transportation applications
- 9. Specify optional plug-and-play power distribution over the mixing segment
- 10. PSE shall only energize the mixing segment when at least one PD is connected
- 11. Support addition/removal of a node or set of nodes to a continuously operating powered mixing segment