

SPMD Study Group

Draft Objectives

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Objectives (1)

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.

Objectives(2)

1. Specify an optional PLCA node ID allocation method
2. Support interoperability with Clause 147 multidrop
3. Support optional Time Synchronization Service Interface (TSSI)
4. Select a single MDI connector
5. Specify improvements for Energy Efficient Ethernet compared to current 10Mb/s multidrop single balanced pair networks
6. Support operation in the noise environments for building, industrial, and transportation applications

Objectives(3)

1. Specify optional plug-and-play power distribution over the mixing segment
2. PSE shall only energize the mixing segment when at least one PD is connected
3. Support addition of a node or set of nodes to a continuously operating powered mixing segment

Thank You!