SPMD Study Group
Draft Objectives
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Objectives (1)

1. Define performance characteristics of a mixing segment with a single balanced pair of conductors supporting up to at least *16* nodes, for up to at least *50m* reach

2. Add support for the mixing segment to 10BASE-T1S

3. Maintain a bit error ratio (BER) at the MAC/PLS service interface of less than or equal to 10^{-10} on the mixing segment

4. Support addition of a node or set of nodes to an operating 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 mandatory MDI connector for this project
5. Specify improvements for Energy Efficient Ethernet
6. *Do not preclude fulfilling the environmental conditions for building, industrial, and transportation industries*

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 an operating powered mixing segment

4. *Support optional standby PSE functionality*

Thank You!

IEEE 802.3 SPMG SG