Prep for Geneva

SPMD Study Group Draft Objectives Peter Jones – Cisco

Objectives (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 without *significant(??) impact* on the data transmission on the mixing segment.

Objectives(2)

- 1. Specify increased node count for the PLCA RS
- 2. Specify an optional PLCA node ID allocation method
- 3. Support interoperability with Clause 147 multidrop
- 4. Support optional Time Synchronization Service Interface (TSSI)
- 5. Select a single mandatory MDI connector for this project
- 6. Specify improvements for Energy Efficient Ethernet

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 without bringing down the power on the mixing segment.
- 4. Support optional standby PSE functionality

Thank You!

IEEE 802.3 SPMG SG