Objectives Contribution to IEEE 802.3 E-PLCA Study Group

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PLCA Enhancement SG Objectives (1 of 2)

- Preserve PLCA access method.
- Preserve optional shared medium Time Synchronization Interface (TSSI)
- Support ~~Preserve~~ interoperability with legacy PLCA (CL148) nodes on the same mixing segment
- Support ~~Preserve~~ interoperability with nodes running D-PLCA on the same mixing segment (discuss what are we signing up for?)
- Support interoperability with Clause 147 & 188 multidrop PHYs.

PLCA Enhancement SG Objectives (2 of 2)

- Specify methods to improve access latency and latency variability per node in non-CSMA/CD network segment.
- Specify methods to improve access latency and latency variability by frame's class of service per node in non-CSMA/CD network segment.
- Specify methods to improve access latency and latency variability with deterministic upper bound regardless of number of nodes in non-legacy PLCA and non-CSMA/CD network segment.
- (choose one) Specify PLCA service client to be used by transmit selection upper layer.
  Specify interfaces to a PLCA ~~priority class of~~ service client.

Thank You