

Objectives Contribution to IEEE 802.3 E-PLCA Study Group

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Draft – Working Copy

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Uploaded early to help promote discussions and contributions. A draft.

PLCA Enhancement SG Objectives (1 of 2)

- Preserve PLCA fair and equal access method
- Preserve optional PLCA node ID allocation method.
- Preserve optional Time Synchronization Interface (TSSI)
- Preserve improvements for Energy Efficient Ethernet
- Support interoperability with CSMA/CD
- Support interoperability with Clause 147 multidrop

PLCA Enhancement SG Objectives (2 of 2)

- Specify methods to improve access latency and latency variability per node.
- Specify methods to improve access latency and latency variability by frame's class of service per node.
- Specify PLCA selection service client to be used by upper layer (e.g. transmit selection function in 802.1. Analogous to TSSI service client use by 802.1AS).
- Provide informative annex on how these capabilities may be used to improve latency, latency variability, and jitter. [note: caution -- this is an IEEE 802.3 first. Perhaps delete this now, deliver in draft]