

# **Proposal for Parallel Path Trunking in 802**

## **SCOPE:**

**Specify a DTE to DTE logical link which consists of n instances of an 802.3 full duplex link. The logical link will provide the existing full duplex 802.3 service to the MAC Client.**

**Define the necessary management objects and protocols to control appropriate addition and deletion of physical links to and from the logical link.**

## **PURPOSE:**

**To increase the bandwidth available between DTEs by specifying the necessary mechanisms for parallel path trunking.**

# **Proposed Exclusions from the near term problem**

**Different MACs: 802.3 only for the 1st project**

**Different speeds: Complicates delivery sequencing**

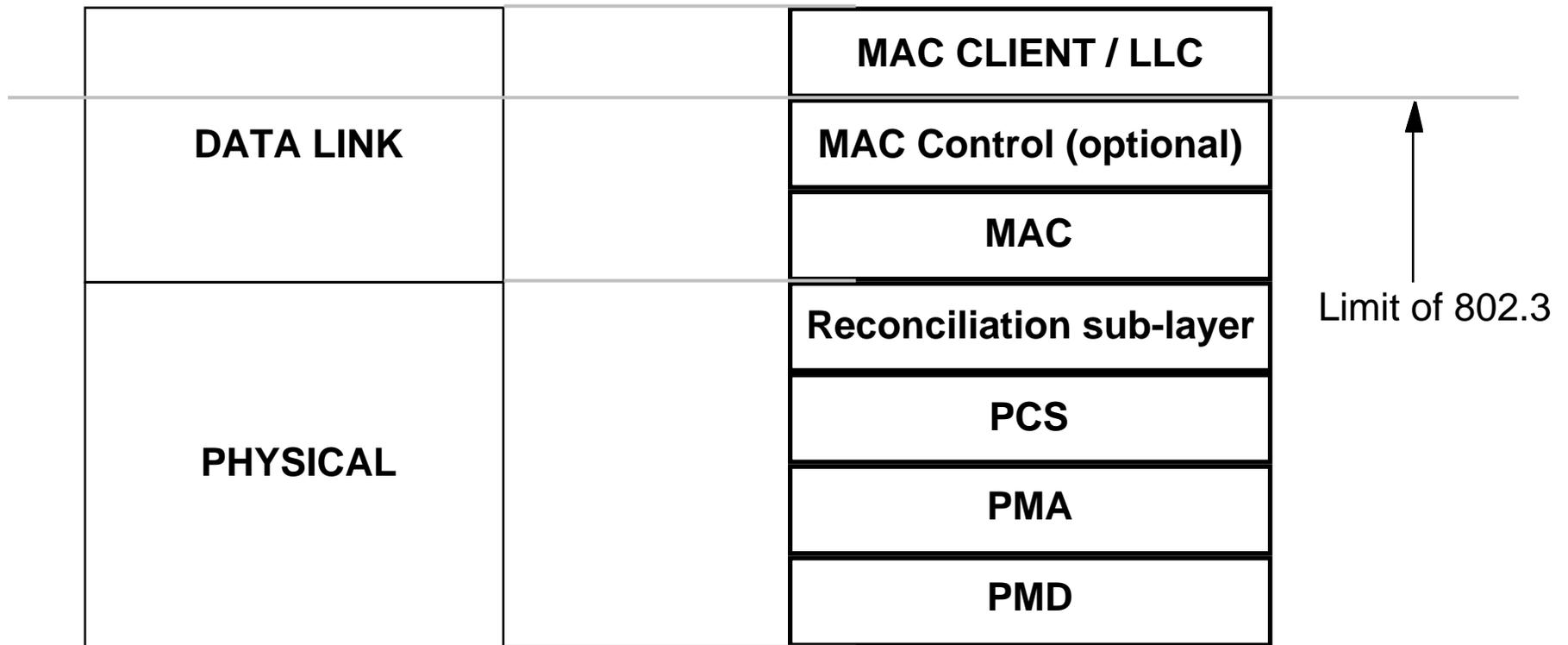
**Duplex: Full Duplex only. If you need trunking you should have already upgraded from 1/2 Duplex to Full-Duplex.**

**Point-to-Point only: Result of above, no coax.**

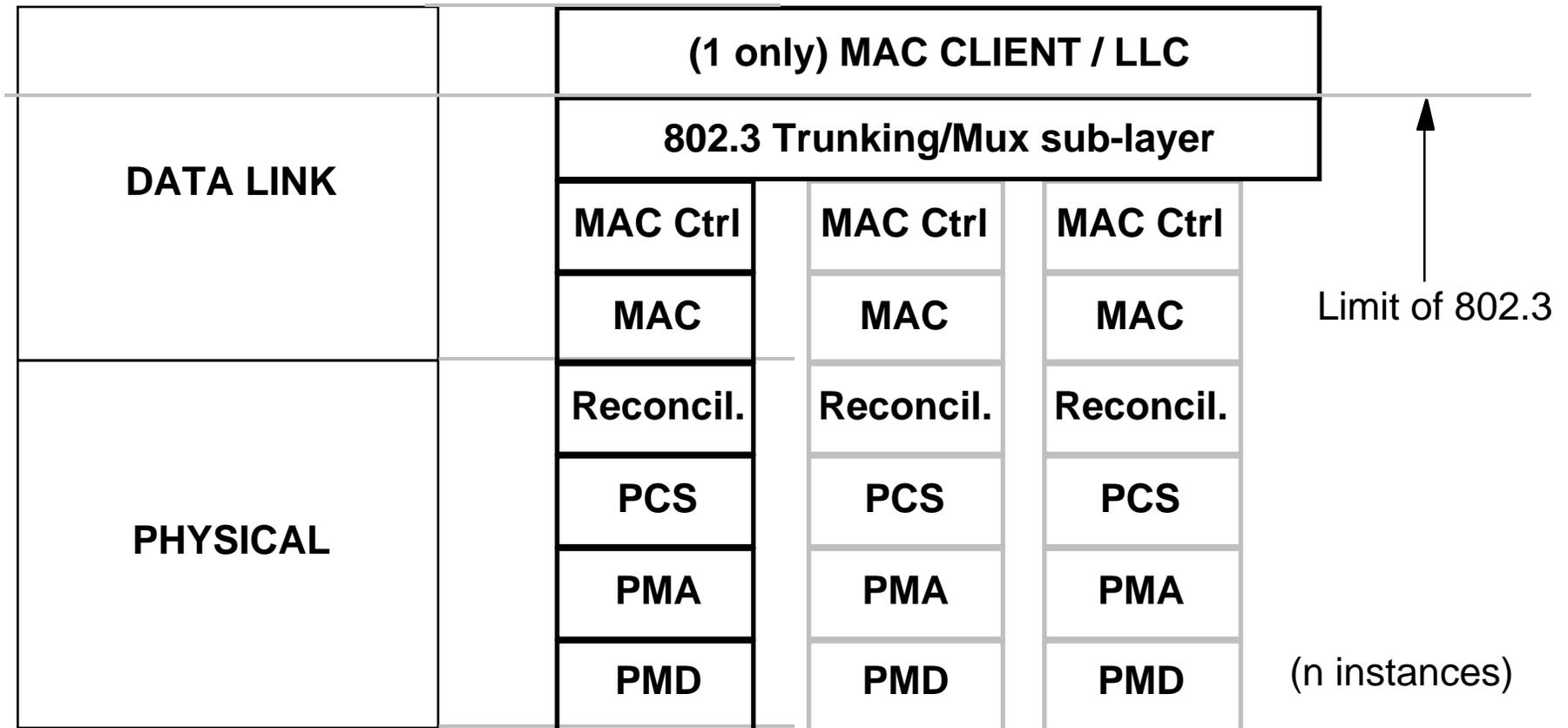
**Repeaters: Repeaters are shared bandwidth devices, Trunking's purpose is to get more than a channel bandwidth. They are at cross purposes so there is no need to complicated life by dealing with them. (Unaddressed issue: Hooking in an analyzer)**

**Distribution algorithm: Not an interoperability issue, collection is the problem.**

# Existing Layer Model, 802.3 (thru 802.3z)



# Proposed Layer Model, 802.3ad



# **Proposal for Link Aggregation in 802.3 (as agreed to by the group)**

## **SCOPE:**

**Specify a DTE to DTE logical link which consists of n parallel instances of an 802.3 point-to-point link segment. The logical link will support existing 802.3 MAC Clients.**

**Define the necessary management objects and protocols to support link aggregation, including identification, addition and deletion of link segments to and from the logical link.**

## **PURPOSE:**

**To increase link availability and bandwidth between DTEs by specifying the necessary mechanisms for parallel link segment aggregation.**