# PHY delay proposal

- PHY delay is currently set at 144ns max, and cable delay is assumed at approx 23ns (delay of 4.5m cable)
- long distance PHY will impose significant cable delay (500ns)
- conversion between encoding schemes (1394 to 1394b, 1394 to long distance phy) will also impose PHY delay
- propose to use PHY pinging to determine the appropriate setting for the Gap_Count
- Proposal
  - the value "11" for PHY_DELAY in the self-ID packet (Table 4-29 on p87 in 1394-1995) should be given an interpretation "PHY_DELAY possibly longer than 144ns and/or cable delay possibly longer than 22ns - PHY pinging shall be used to determine total transmission latency",

# AC timing

- Current version of Clause 5.3 is confusing and inconsistent
- Needs clearer explanation of the effect of isolation delays and clock turn-round delays
- Needs better specification of LINK to PHY
- Propose
  - clear specification
  - informative subclause (or Annex)