

Summary of Optical PMD Subtask Force Meeting

Tom Murphy
Infineon Technologies
IEEE Ethernet First Mile
Dallas Tx, March 2003

What did we cover? (1)

- **Comment Resolution:**

Resolved all comment except those dealing with Extended Temperature and 6 carry-overs, 3 TDP, 2 BER and 1 Clocking

➤ TR - 25 T - 146 E - 120

- **Extended Temperature (Informative vs Normative):**

Had some technical discussions - we await the decision of the group which will be discussed in the EFM plenary - see meeting notes.

What did we cover? (2)

- **Clause 58:**
Made a start of filling out the Jitter tables for PON, however, need definitive clocking architecture to complete.
Adjusted power and sensitivity levels to allow for easier Rx design. Tidied up link budget and penalty allocations.
Reduced the Laser on/off times from 600 to 512 ns to match protocol. However, rejected comment to further reduce to 256 ns.

What did we cover? (3)

- **Clause 59:**
Examined the jitter tables for 1000BASE-LX links. Need some further study on MMF links
- **Clause 60:**
Ongoing interoperability testing. Redefined eye-mask for 100 Mbps to reduce failures due to legacy effects.
- **Misc:**
Looked at testing across the optics clauses and where feasible, we want the procedures performable at a system level, i.e., frame based test patterns and perhaps informative experimental set-ups.

Big Ticket Items for Next Meeting

- **Frame Testing:**
Need to generate text for $D\sqrt{2}$ for testing patterns
- **Clocking Architecture:**
Need the decision of the whole group as to the clocking architecture, loop timing or free-running ONU.
- **Misc:**
Finish up carried on TRs; TDP and equivalent jitter numbers and BER for 100M.

Liaison letters (3)

- Answered all (we hope) and one further contact to SFP and Fibre Channel. Interoperability testing within the 100M group showed that the fast Tx on-times required by SFP have a detrimental effect on laser performance and the aim of the letter was to determine if this parameter could be relaxed.

Motion # 1

Motion to charter the editors to create D1.4 of Clauses 58, 59, 60 and 66A based on the comment resolution from D1.3 as recorded in the comment database.

Proposed by: Jerry Radcliffe
Seconded by: Steve Swanson

By acclamation

Motion # 2

Accept the comment resolution against D1.3,
with the exception of open comments 380 & 620,
as recorded in the comment data-base for the
Optics STF

Proposed by: Ulf Jönsson
Seconded by: Steve Swanson

By acclamation