

Optical PMD Subtask Force Meeting

Tom Murphy

도마스 머피

Infineon Technologies
IEEE Ethernet First Mile

Seoul, May 2003

What did we do?

- **Comment Received:**
431 comments in total:
 - TR - 10 T - 134 E - 286
- **Resolutions to all comments, awaiting reply from common optics & PON TR - Open/closed loop timing**

Key Issues

- **FEC (58)**

Filling in the gaps in Clause 58

Interesting discussion. Minimal changes to clause 58 - highlighted benefits of FEC for power budget and reach length

- **Clocking Architecture (58)**

Synchronous Timing? - jitter transfer

Adopted closed loop timing. Have first draft of jitter numbers, jitter transfer and eye mask for this option.

- **BM Testing (58)**

Refining text of Lior Khermosh

Identified improvements to text, moved CDR test to CI 65

Key Issues (cont.)

- **Frame Based Testing (58 & 59)**
Refining work of Jerry Radcliffe
Minor changes to test patterns, this section remains in relevant optics clauses. Discussed new frame based testing annex
- **BER (60)**
Extrapolation of lower BER tests to 10^{-12} values?
Adopted proposed changes. Related BER 10^{-10} values with appear in Rx tables with appropriate margin to ensure 10^{-12}
- **Jitter (60)**
Change to values based on interoperability tests
New values adopted

Key Issues (cont.)

- **Temperature Issues (66A)**

Two ranges agreed upon -30 to 60 °C and -5 to 85 °C. Lower limit still under discussion and remains as -30 °C for next version of document

- **TDP vs Jitter TR (All optics Clauses)**

Have made progress on this but unlikely to be resolved in this meeting

Did make progress on this issue. Have identified refined jitter numbers and eye mask tests which correlate to TDP values

Key Issues (cont.)

- **BER (60)**
Receiver sensitivity measurements BER 10^{-3} , TR from D1.1
Resolved
- **Test Point Naming (All optics Clauses)**
TP1 to TP8, or TP1U and TP1D?
Names remain the same, have clarified the related diagram.

Motion # 1

Accept the comment resolution against D1.414
as recorded in the comment data-base for the
Optics STF

Proposed by: Kazuhiro Nojima
Seconded by: Seo Won Kwon

By acclamation

Motion # 1

Accept the comment resolution against D1.414
as recorded in the comment data-base for the
Optics STF

Proposed by:	Tom Murphy		
	Y:47	N:0	A:1
802.3	Y:27	N:0	A:1

Motion # 2

Motion to charter the editors to create D1.732 of Clauses 58, 59, 60 and 66A based on the comment resolution from D1.414 as recorded in the comment database.

Proposed by: Kazuhiro Nojima
Seconded by: Seo Won Kwon

By acclamation

Motion # 2

Motion to charter the editors to create D1.732 of Clauses 58, 59, 60 and 66A based on the comment resolution from D1.414 as recorded in the comment database.

Proposed by: Kazuhiro Nojima
Seconded by: Seo Won Kwon

By acclamation