802.3dj D2.1 Comment Resolution Common Track

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Introduction

- This slide package was assembled by the 802.3dj editorial team to provide background and detailed resolutions to aid in comment resolution.
- Specifically, these slides are for the various common-track comments.

Error ratio method description, part 1
Comment #453

Cl **174A** SC **174A.8.5** P **721** L **12** # 453

Slavick, Jeff Broadcom

Comment Type **T** *Comment Status* **D** *ratio tests (Common-General)*

The introduction of the 3 different methods to measure the performance of the PMA using block error counts use slightly different wording that could be improved to align all 3 to use the same phrasing of "measure peformance" by "measuring ALL or one" as a "group or independently"

SuggestedRemedy

Change the first sentence of each of the following sub-clauses to be as follows:
174A.8.5
This test method evaluates the performance of each physical lane in a PMD or xAUI-n by measuring each physical lane independently of the others using error checkers and counters in the PMA.

174A.8.6
This test method evaluates the performance of all physical lanes in a PMD or xAUI-n by measuring all physical lanes as a group using error checkers and counters in the PMA.

174A.8.7
This test method evaluates the performance of each physical lane in a PMD or xAUI-n with p lanes by measuring each physical lane independently of the others using error checkers and counters in the PMA.

Proposed Response *Response Status* **W**

PROPOSED ACCEPT IN PRINCIPLE.
The comment correctly points out that some clarification is required in the text. However, the changes in the suggested remedy are somewhat incaccurate and incomplete.
Proposed changes will be provided in the following editorial contribution:
<URL/brown_3dj_03_2509

The following text illustrates the changes proposed by the comment. It also includes changing “xAUI-n” to “AUI component” (rather than vice versa as proposed by the comment) in 174A.8.5 and 174A.8.6 to align with 174A.8.7 and .

174A.8.5 Error mask test method using PMA measurements

This test method ~~permits measurement of~~ evaluates the performance of each physical lane in a PMD or ~~xAUI-n~~ AUI component by measuring each physical lane independently of the others using error checkers and counters in the PMA. Compliance is determined by measuring an error histogram on each lane and comparing the measured histogram to a calculated limit mask. If this test passes for each lane, then the PHY or xMII Extender will meet the expected codeword error ratio. If this test fails, then the performance may be further verified using the method in 174A.8.6.

174A.8.6 Block error ratio method for all lanes using PMA measurements

This test method ~~permits measurement of~~ evaluates the performance of all physical lanes in a PMD or ~~xAUI-n~~ AUI component by measuring all physical lanes as a group using error checkers and counters in the PMA. Compliance is determined by measuring an error histogram on each lane, combining the histograms from all lanes, and determining the block error ratio number for the set of lanes. If this test passes, then the PHY or xMII Extender will meet the expected codeword error ratio.

174A.8.7 Block error ratio method for a single lane using PMA measurements

This test method ~~permits measurement of~~ evaluates the performance of each physical lane in a PMD or AUI component with p lanes by measuring each physical lanes using error checkers and counters in the PMA. Compliance is determined by measuring an error histogram on each lane and determining the block error ratio number for the each lane. If this test passes for all p lanes, then the PHY or xMII Extender will meet the expected codeword error ratio.

Editor’s proposal is to adopted the changes as shown above.
Also, consider next slide.

Error ratio method description, part 2
Comment #453 (pile on)

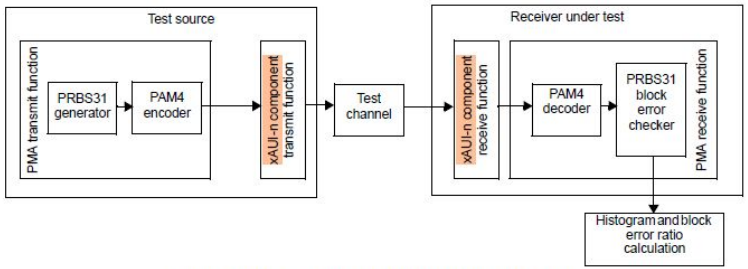

Figure 174A–3—Test configuration for an xAUI-n

To be consistent with the rest of Annex 174A (see previous slide, 174A.10.4, Table 174A-1 footnote a, Table 174A-2 footnote a, Table 174A-3 footnote a), in Figure 174A-3, “xAUI-n component” should be changed to “AUI component”.

Editor’s proposal is to adopted the changes as proposed above.

The End