

IEEE P802.3 (IEEE 802.3dc) D3.1 Maintenance #16 (Revision) 1st Sponsor recirculation ballot comments

CI 142 SC 142.3.1 P 5523 L 1 # R1-1

Kramer, Glen

Broadcom Corporation

Comment Type E Comment Status A

The figure 142-12 lost its aspect ratio. It is too stretched horizontally, compared to how it looked in D3.0

SuggestedRemedy

Restore the aspect ratio

Response Response Status C

ACCEPT.

CI 142 SC 142.2.4.3 P 5512 L 1 # R1-2

Kramer, Glen

Broadcom Corporation

Comment Type E Comment Status A

The figure 142-8 is made narrower than the surrounding text. The legibility will improve if the figure is enlarged to occupy the full allowed page width.

SuggestedRemedy

Increase the figure size to match the width of text. Maintain the aspect ratio.

Response Response Status C

ACCEPT.

CI 28 SC 28.3.4 P 970 L # R1-3

Ran, Adeo

Cisco Systems, Inc.

Comment Type T Comment Status R

The Auto-Negotiation Arbitration state diagrams (Figure 28–18, Figure 73–11, Figure 98–7) control the variable transmit_ack, setting it to true in states ACKNOWLEDGE DETECT and COMPLETE ACKNOWLEDGE, but it is not set to false anywhere.

Correct operation of the ACK handshake requires that transmit_ack is set to false in some states, e.g. in NEXT_PAGE_WAIT and in ABILITY_DETECT.

It turns out that the definition of transmit_ack (e.g. in 28.3.1) specifies false as the default value, and the state diagrams in the auto-negotiation clauses have an addition to the usual conventions (21.5), stating that "Variables in a state diagram with default values evaluate to the variable default in each state where the variable value is not explicitly set". Other than the three AN clauses, this statement appears only in 4 relatively old clauses (36, 37, 48, and 65) so it is likely that readers do not expect it.

There are several other variables which have a default value and is not explicitly assigned in some states of the arbitration state diagrams.

Although strictly speaking the diagrams are correct as written, the unusual convention makes them prone to misunderstanding the required implementation, especially in the quite complicated arbitration state diagrams. Since adding all the "missing" assignments may clutter these diagrams, the proposed change is to add a note at the bottom of each arbitration state diagram instead.

The Receive state diagrams are also affected by this convention: Figure 28–17 assigns the variable flp_receive_idle, and Figure 73-10 and Figure 98–9 assign the variable an_receive_idle, only in some states. Adding a similar note should also be considered for these diagrams.

SuggestedRemedy

In each of Figure 28–18, Figure 73–11, and Figure 98–7:

Add a NOTE at the bottom of the diagram: "NOTE--Any variable which has a default value in its definition is set to that value in each state, unless explicitly set to another value".

Response Response Status C

REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

There was no consensus to make the change.

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Cl 97 **SC 97.10.4** **P3122** **L 24** # **R1-4**

Ran, Adeel Cisco Systems, Inc.

Comment Type E **Comment Status A**

The assignment in state COMPLETE ACKNOWLEDGE has a typo: "mr_lp_adv_abiliy".

SuggestedRemedy
Change it to "mr_lp_adv_ability".

Response **Response Status C**

ACCEPT IN PRINCIPLE.

This comment pertains to 73.10.4, Figure 73-11.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

However, the comment points out an obvious error that should be corrected. In Figure 73-11, "COMPLETE ACKNOWLEDGE" state, change "mr_lp_adv_abiliy" to "mr_lp_adv_ability".

Cl 1 **SC 1.4** **P200** **L 14** # **R1-5**

Ran, Adeel Cisco Systems, Inc.

Comment Type E **Comment Status A**

The Auto-Negotiation definition (1.4.198) refers to clauses 28, 37, and 73, but does not include clause 98 which also fits this definition.

SuggestedRemedy
Change "and Clause 73" to "Clause 73, and Clause 98".

Response **Response Status C**

ACCEPT IN PRINCIPLE.

This comment pertains to 1.4.199.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

However, Clause 98 should be included in the list of cross-references for the definition of Auto-Negotiation. Add Clause 98 to the list of cross-references in 1.4.199 with editorial license.

Cl 91 **SC 91.5.3.3** **P3694** **L 39** # **R1-6**

Parsons, Earl CommScope, Inc.

Comment Type E **Comment Status R**

Throughout the draft PMDs are ordered by decreasing number of lanes. In this sentence 100GBASE-SR2 comes before 100GBASE-SR4. Their order should be swapped.

SuggestedRemedy
Place 100GBASE-SR4 before 100GBASE-SR2 in this sentence.

Response **Response Status C**

REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

The proposed change to the order does not improve the clarity of the draft.

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CI 72 SC 72.7.2.2 P3085 L 29 # R1-7

Ben-Artsi, Liav

Marvell Semiconductor, Inc.

Comment Type TR Comment Status R

It is stated that the receiver shall comply with the requirements of Table 72-9 for any (Specific? - static? one?) signaling speed in the range 10.3125 GBd ± 100 ppm. There is no reference to a possibility of signaling speed wander or signaling speed which varies over time (which may occur due to clock aging, temperature influence, voltage change, etc.) We could have avoided such statement if a receiver test was specified to account for such, but there is no such test including the jitter tolerance one which covers ~1 order of magnitude lower peak wander.

SuggestedRemedy

Change the sentence to
A 10GBASE-KR receiver shall comply with the requirements of Table 72-9 for signaling speeds in the range 10.3125 GBd ± 100 ppm including signaling speed wander.
Editorial license permitted
The same change should be done to:
85.8.4.4 on page 3546 line 24
92.8.4.6 on page 3741 lane 41
130.7.2.2 on page 5219 line 28
136.9.4.4 on page 5335 line 10

Response Response Status W

REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

72.7.2.2 states that "A 10GBASE-KR receiver shall comply with the requirements of Table 72-9 for any signaling speed in the range 10.3125 GBd +/- 100 ppm" with no further qualification. This means that if the signaling rate is R1 at time t1, and the signaling rate is R2 at time t2, the 10GBASE-KR receiver shall comply with the requirements of Table 72-9 as long as R1 and R2 are 10.3125 GBd +/- 100 ppm.

Most, if not all, specifications of signaling rate in IEEE Std 802.3 define a tolerance range without further qualification. The addition of the phrase "including signaling speed wander" does not add a significant clarity since "signaling speed wander" is not a defined term in IEEE Std 802.3.

CI 80 SC 80.1.4 P3385 L 15 # R1-8

Brown, Matthew

Huawei Technologies Canada

Comment Type E Comment Status R

In Table 80-1, the order of PHYs with different lane widths is not consistent.

SuggestedRemedy

Reorder as follows where PHY with more lanes is listed first:
100GBASE-CR10, 100GBASE-CR4, 100GBASE-CR2
100GBASE-SR10, 100GBASE-SR4, 100GBASE-SR2
Other ordering schemes are fine as long as it is consistent within this table.

Response Response Status C

REJECT.

The first three elements of the row sort order for Table 80-1 were defined in the response to comment I-54 against D3.0 as:

1. Increasing speed.
2. Increasing reach (maximum supported distance over the medium).
3. Decreasing number of lanes.

Table 80-1 in D3.1 is correctly ordered according to this scheme.

The six 100 Gb/s PHYs listed in the suggested remedy are ordered according to:
100GBASE-CR2 3 m reach
100GBASE-CR4 5 m reach
100GBASE-CR10 7 m reach
100GBASE-SR4 100 m reach, 4 lanes
100GBASE-SR2 100 m reach, 2 lanes
100GBASE-SR10 150 m reach

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CI 80 SC 80.1.5 P 3388 L 45 # R1-9

Brown, Matthew Huawei Technologies Canada

Comment Type E Comment Status R

In Table 80-6, footnote b is an unnecessary detail in this table. The footnote appears in the PMD summary table in Clause 154 (Table 154-1). This table is a summary of normative specifications in the respective PMD clauses. Pulling in the various detailed footnotes from all of the PMD clauses would clutter these summary tables. Be consistent.

SuggestedRemedy

Remove footnote b from Table 80-6.

Response Response Status C

REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

These tables show whether a particular clause is mandatory or optional for each PHY type listed. Table footnote b in Table 80-6 defines the conditions for the "C = Conditional" designation. As there are no "C" entries in any of the other tables, this is not inconsistent.

CI 135 SC 135.5.7.2 P 5284 L 37 # R1-10

Brown, Matthew Huawei Technologies Canada

Comment Type E Comment Status A

"50GBASE-1 C2C" should be "50GAUI-1 C2C"

SuggestedRemedy

Change "50GBASE-1 C2C" to "50GAUI-1 C2C".

Response Response Status C

ACCEPT.

CI 135 SC 135.5.7.2 P 5284 L 34 # R1-11

Brown, Matthew Huawei Technologies Canada

Comment Type E Comment Status R

The first paragraph in 135.5.7.2 already lists the PMDs and AUIs for which this subclause applies. It is not necessary to repeat any part of this list within this subclause.

SuggestedRemedy

On page 5284 line 34 change

"is part of a 50GAUI-1 C2C or a 100GAUI-2 C2C link" to "is part of a C2C link"

On page 5284 line 36 change

"may be used for 50GBASE-1 C2C or 100GAUI-2 C2C" to "may be used for C2C"

Response Response Status C

REJECT.

The term "C2C" is not used to generically refer to a group of AUIs elsewhere in the draft (it is always accompanied by a specific AUI designation). This particular list of AUIs is already short and the proposed change is not an improvement to the draft.

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CI 135 SC 135.5.7.2 P 5283 L 48 # R1-12

Brown, Matthew Huawei Technologies Canada

Comment Type T Comment Status A

A PMA may have physical instantiation on both top (facing the PCS) or bottom (facing the PMD). It is possible that only one side supports precoding. This should be clarified in the wording.

SuggestedRemedy

On page 5283 line 48 and page 5284 line 33...
Change "If the PMA is connected" to "If the PMA input and output lanes are connected".

Response Response Status C

ACCEPT IN PRINCIPLE.

The comment correctly points out that the precoding requirements may differ for service interfaces above and below the PMA.

Implement the following changes with editorial license.

In 120.5.7.2, change the start of the first sentence of the first paragraph from:
"The precoding specifications in this subclause apply to a PMA that is connected to the service interface of..."

to:
"The precoding specifications in this subclause apply to the input and output lanes of a PMA that are connected to the service interface of..."

In 135.5.7.2, change the start of the first sentence of the first paragraph from:
"The precoding specifications in this subclause apply to a PMA that is connected to the service interface of..."

to:
"The precoding specifications in this subclause apply to the input and output lanes of a PMA that are connected to the service interface of..."

CI 96 SC 96.5.4.3 P 3924 L 2 # R1-13

Ran, Adeo Cisco Systems, Inc.

Comment Type T Comment Status R

In several equations there are ranges of f expressed with units, such as "0.1 <= f < 0.5 MHz" and "0.5 <= f <= 20 MHz", but the variable definitions below the equation stating that "f is the frequency in MHz".

In these equations, f itself is a pure number (as it is used in the equation), and the MHz units in the range are out of place.

This issue exists in equations 96-4, 96-5, 96-6, 96-7, 96-8, 96-9, 96-10, 96-11, 96-13, 146-12, 146-17, 146-18, and 149-24.

A similar issue but with GHz units exists in equations 92-3, 92-30, 92-34, 92-35, 92-42, 92-43, 92A-1, 92A-2, 92A-3, 92A-4, 92A-5, 110A-1, 110A-2, 136A-1, 136A-2, and 136B-1.

A related issue exists in equations 85A-1 and 85A-2. In these equations, the range of f is expressed with MHz units while f is defined as "the frequency in Hz".

A related issue exists in equation 130A-2 which includes the term (f/275 MHz), but f is defined as "the frequency in MHz", so is a pure number.

SuggestedRemedy

In equations 96-4, 96-5, 96-6, 96-7, 96-8, 96-9, 96-10, 96-11, 96-13, 146-12, 146-17, 146-18, and 149-24, delete "MHz" in the range designations of f.

In equations 92-3, 92-30, 92-34, 92-35, 92-42, 92-43, 92A-1, 92A-2, 92A-3, 92A-4, 92A-5, 110A-1, 110A-2, 136A-1, 136A-2, and 136B-1, delete "GHz" in the range designations of f.

In equations 85A-1 and 85A-2, change "10 MHz <= f <= 7500 MHz" to "10^7 <= f <= 7.5*10^9".

In equation 130A-2, change "(f/275 MHz)" to "(f/275)".

Response Response Status C

REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

There is no obvious issue with the comparison of a quantity with defined units to a range whose endpoints are explicitly indicated to have the same units. The proposed changes do not improve the clarity of the draft.

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CI **93A** SC **93A.2** P **6719** L **35** # **R1-14**

Ran, Adeo Cisco Systems, Inc.

Comment Type **T** Comment Status **A**

"Equation (93A-46) where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a"

Tr has dimension of time, but the units are not specified in Equation (93A-46). This equation has frequency multiplied by time which result in a pure number. The units should cancel out, e.g. Hz and second. Incorrect choice of units for Tr (e.g. ps where f is in GHz) would lead to wrong results.

In some cases, e.g. in 110.10.7, 136.11.7, and 137.10, values of Tr for this equation are given with specific units of ps, which can mislead the reader (it is unlikely that frequency is given in THz).

A similar issue exists in 92.8.4.4.3.

SuggestedRemedy

In 93A.2, change "Equation (93A-46) where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a"

to
"Equation (93A-46) where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a, expressed in reciprocal units of f (e.g., if f is in GHz, Tr is in ns)".

In 92.8.4.4.3, change "Equation (92-22) where Tr is the 20 to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a"
to
"Equation (92-22) where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a, expressed in reciprocal units of f (e.g., if f is in GHz, Tr is in ns)".

Response Response Status **C**

ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

However, the comment points out that the units of Tr are not defined.
Implement the following changes with editorial license.

In 93A.2, change "Equation (93A-46) where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a"
to
"Equation (93A-46) where Tr is the 20% to 80% transition time in ns (see 86A.5.3.3) of the signal as measured at TP0a and f is frequency in GHz".

In 92.8.4.4.3, change "Equation (92-22) where Tr is the 20 to 80% transition time (see

86A.5.3.3) of the signal as measured at TP0a"
to

"Equation (92-22) where Tr is the 20% to 80% transition time in ns (see 86A.5.3.3) of the signal as measured at TP0a and f is frequency in GHz".

CI **56** SC **56.1.3** P **2626** L **22** # **R1-15**

Dawe, Piers J G NVIDIA

Comment Type **E** Comment Status **R**

At over three pages long, Table 56-1 is far too long and cumbersome.

SuggestedRemedy

Split it into three tables; copper (including coax), bidi and PON

Response Response Status **C**
REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

The majority of the rows in Table 56-1 pertain to PON. A dedicated PON table would continue to be split across multiple pages. The proposed change is not a significant improvement to the draft.

CI **58B** SC **58B.2** P **6474** L **3** # **R1-16**

Dawe, Piers J G NVIDIA

Comment Type **T** Comment Status **A**

Making the context clear because OMA is normative in clauses 59 and 60 which rely on 58.7, and in spite of what 58.7.6 said, OMA is normative in 58.4 as well.
Possible editorial change.

SuggestedRemedy

Delete the sentence "The normative way of measuring transmitter characteristics is extinction ratio and mean power" altogether, because 58.4.1 says "The 100BASE-BX10 transmitters' ..., OMA, eye and TDP shall meet the specifications...".

Change "The following clause" to "This sub-annex"?

Response Response Status **C**
ACCEPT IN PRINCIPLE.

In the first paragraph of 58B.2, delete the sentence "The normative way of measuring transmitter characteristics is extinction ratio and mean power." and change "The following clause..." to "This subclause...".

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CI **93A** SC **93A.1** P **6709** L **17** # **R1-17**

Dawe, Piers J G

NVIDIA

Comment Type **E** Comment Status **R**

It is not convenient that a long list of COM parameters are collected together in a table, but the IC rise time Tr is handled in an ad-hoc way in text.

SuggestedRemedy

Insert a row for "IC rise time 93A.1.4 Tr ps" in Table 93A-1, COM parameters, above "Receiver 3 dB bandwidth".

In the other COM parameter tables, 93-8, 94-17, 83D-6, 110-11, 111-8, 136-18, 137-6, and 120D-8, insert a row for "IC rise time Tr <value> ps". Value is 0 for the earlier clauses and annexes where no value is given, see below for others.

In 93A.1.4 Filters, delete "where Tr is 0 unless defined otherwise for the Physical Layer specification that invokes this method".

In 110.10.7, delete "where Tr is 8 ps for Ht(f) as used in Equation (93A-19)", use value of 8 ps in Table 110-11.

In 111.9, delete "where Tr is 12 ps for Ht(f) as used in Equation (93A-19)", use value of 12 ps in Table 111-8.

In 136.11.7, delete "where Tr is 12 ps for Ht(f) as used in Equation (93A-19)", use value of 12 ps in Table 136-18.

In 137.10, delete "where Tr is 12 ps for Ht(f) as used in Equation (93A-19)", use value of 12 ps in Table 137-6.

In 120D.4.1, delete "where Tr is 13 ps for Ht(f) as used in Equation (93A-19)", use value of 13 ps in Table 120D-8.

Response Response Status **C**

REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

The calculation of COM requires multiple supporting parameters that are not listed in Table 93A-1 and the associated parameter value tables. This includes not only Tr but also the package transmission line model parameters (e.g., Table 93A-3) and, when used, the host PCB transmission line model parameters (e.g., Table 92-12). Specifically for Tr, when used, its value is given in the same subclause where the COM parameter values table is provided. It is not a completely disconnected piece of information.

The draft is correct as written. The incremental consolidation achieved by the proposed change does not warrant the disruption to otherwise stable text and tables.

CI **120D** SC **120D.4.1** P **6832** L **23** # **R1-18**

Dawe, Piers J G

NVIDIA

Comment Type **E** Comment Status **A**

The title of Table 120D-8 does not match the many other COM parameter tables, which makes it harder to find.

SuggestedRemedy

Make them all identical, e.g. change "Channel Operating Margin parameters" to "COM parameter values" here.

Response Response Status **C**

ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

However, the comment points out an inconsistency that is easily corrected. Change the title of Table 120D-8 to "COM parameter values".

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CI 93A SC 93A.1.4 P 6714 L 28 # R1-19

Dawe, Piers J G

NVIDIA

Comment Type E Comment Status R

In the 64B/66B-based PMDs, both electrical and optical, "transition time" is defined consistently as the 20-80% time in a defined observation bandwidth, where 0% and 100% are the settled levels. This depends on the transmitter state of emphasis unless "with no equalization" is specified. See 86A.5.3.3, 83E.3.1.5, 121.8.7, 122.8.7 and many more, and 72.7.1.7, 85A.2, 130.7.1.7 (8B/10B clauses are different, but clear). However, COM and ERL use parameters Tr which are different: they do not involve an observation bandwidth, nor do they depend on the transmitter state of emphasis. This is like "the 20% to 80% rise and fall times Tnt and Tft" used for ICN calculation.

SuggestedRemedy

Where Tr is a given value used as an input to a calculation, change its name to avoid misunderstanding:
For COM, generally Tr has no name, but in 93A.1.4, change "the transmitter transition time filter Ht(f)" to "the transmitter filter Ht(f)", and use "IC rise time" in COM tables.
For ERL: in 93A.5.1 and Table 136-13, 17, 137-5, 7, change "Transition time associated with a pulse" to "Rise time associated with a pulse".
In 93A.2, change "where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a" to "where Tr is the 20% to 80% rise time of the test transmitter's signal as if measured at TP0a without an observation filter and with no transmit equalization (see 86A.5.3.3)".
In 93C.2, change "the same 20% to 80% transition time as the transmitter measured at TP0a" to "the same 20% to 80% rise time as the transmitter measured at TP0a".
Make similar clarifications in receiver interference tolerance sections.

Response Response Status C

REJECT.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

The difference between the terms "transition time" and "rise time" is not immediately obvious and the subtlety of using one to describe the result of a measurement and another to describe an input to a calculation is likely to be lost on many readers. Measurement requirements for transition time are clearly stated and the use of the term "Tr" is rigorously defined in equations.

There is no consensus to make the proposed changes.

CI 72 SC 72.10.4.5 P 3092 L 49 # R1-20

Dawe, Piers J G

NVIDIA

Comment Type E Comment Status A

TC12 and TC13 Value/Comment does not agree with controlling text. As this is defined "with no equalization", the error is small, but it is an unnecessary inconsistency.

SuggestedRemedy

Change "of the peak-to-peak differential value of the waveform" to "of the steady-state voltages of 72.7.1.11", twice. Similarly in 130.10.4.4.

Response Response Status C

ACCEPT IN PRINCIPLE.

This comment does not apply to the substantive changes between IEEE P802.3 D3.1 and IEEE P802.3 D3.0 or unsatisfied comments associated with "disapprove" votes comments from the previous ballot. It is not within the scope of the recirculation ballot.

However, the comment points out an inconsistency in the draft that should be corrected. Make the following changes with editorial license.

In 72.10.4.5 TC12 and TC13, change:
"of the peak-to-peak differential value of the waveform"
to:
"levels referenced to v2 and v5 as defined in 72.7.1.11 with no equalization"

In 130.10.4.4 TC14 and TC15, change:
"Between 20 ps and 60 ps measured at the 20% and 80% of peak-to-peak differential with pattern in 52.9.1.2"
to:
"As specified in Table 130-4 when measured with respect to v1 and v3 as defined in Figure 130-7 with no equalization"