

IEEE P802.3 (IEEE 802.3dc) D2.0 Maintenance #16 (Revision) Initial Working Group ballot comments

Cl 103 SC 103.3.5.1 P4334 L41 # 35

Grow, Robert RMG Consulting

Comment Type TR Comment Status R hex

We should be consistent in use of separators for hexadecimal readability. Use of spaces would be consistent with decimal numbers, and has been recommended to IEEE editorial for inclusion in the next revision of the IEEE Standards Style Manual. Other separators should be reserved to indicate something else. For example hyphens indicate MAC address hexadecimal representation per IEEE Std 802.

SuggestedRemedy

Replace "." with space " " unless a MAC address. Some locations also have changes requested for case of hexadecimal digits and Clause 142 locations also have a another change related to a comment on a unique hexadecimal notation convention for that clause. (Attached file includes: Page, Sub-Clause and Line listing. Some locations)

Response Response Status U

REJECT.

The response to comment #33 did not include enforcement of the use of a specific separator.

There is no consensus in the comment resolution group to make this change.

Cl 142 SC 142.1.1.2 P5470 L42 # 38

Grow, Robert RMG Consulting

Comment Type ER Comment Status R hex

This convention unique for Clause 142 is not justified by the six uses.

SuggestedRemedy

Delete the second subbullet. If hyphenation comments are accepted, then the entirety of 142.1.1.2 can be deleted. Expand the six occurrences on p. 5476, l. 32; PI 5490, l. 12 and 23; p. 5493, l. 14; p. 5499, l. 8; and p. 5502, l. 49.

Response Response Status U

REJECT.

The convention is local to Clause 142 and aids in the understanding of structure of large hexadecimal values. There was no consensus in the comment resolution group to make the proposed change.

Cl 113 SC 113.7.3.1 P4634 L35 # 41

Grow, Robert RMG Consulting

Comment Type TR Comment Status A equations, bucket

Maintenance 1334 does not seem to be correctly implemented in the draft (e.g., "PSANEXT,f.", circle R and circle C and other odd characters)

SuggestedRemedy

Fix fonts or entry errors of equation symbols. Remove "." after dB

Response Response Status U

ACCEPT IN PRINCIPLE.

Resolve with comment #103.

Cl 113 SC 113.7.4.3.9 P4639 L10 # 42

Grow, Robert RMG Consulting

Comment Type TR Comment Status A equations, bucket

Maintenance 1335 does not seem to be correctly implemented in the draft (e.g., "PSANEXT,f.", circle R and circle C and other odd characters)

SuggestedRemedy

Fix fonts or entry errors of equation symbols. Remove "." after dB

Response Response Status U

ACCEPT IN PRINCIPLE.

Resolve with comment #103.

Cl 142 SC 142.3.5.1 P5499 L8 # 43

Grow, Robert RMG Consulting

Comment Type ER Comment Status R hex

Maintenance 1366 -- As noted on my comment to p. 5470, l. 42, the unique hexadecimal convention for repeating sequences should not be used. Similarly, my comment to p. 4334, l. 41 would replace hyphen separators with space separators.

SuggestedRemedy

Expand the hexadecimal string and replace hyphens with spaces per comments cited in this comment.

Response Response Status U

REJECT.

See the response to comments #35 and #38.

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CI 120D SC 120D.3.2.2 P6642 L35 # 104

Ghiasi, Ali Ghiasi Quantum/Marvell

Comment Type TR Comment Status R jtol

Case B at 0.4 MHz was added due to risk of scape and peaking in the band from 0.04 MHz to 1.333 MHz, but even after adding test case B the difference between test case A and B is a decade where PLL peaking may result in system failure. All other points in the table are separated by 3.3x with exception of point A to B which is a decade.

SuggestedRemedy

Please add one additional point between A and B at 0.1333 MHz with amplitude of 1.5 UI.

Response Response Status U

REJECT.

A similar proposal to add the (0.1333 MHz, 1.5 UI) test case to the PHYs and interfaces being defined by the P802.3ck Task Force was not accepted. See the response to comment #35 in https://www.ieee802.org/3/ck/comments/draft2p0/8023ck_D2p0_final_closedcomments.pdf#page=46.

No data has been provided to demonstrate that a practical receiver that meets the jitter tolerance test conditions defined in the draft will not interoperate with a compliant transmitter and channel. No data has been provided to demonstrate that the addition of the proposed test case provides a higher assurance of interoperability.

No change to the draft.

CI 120E SC 120E.3.3.2.1 P6660 L38 # 105

Ghiasi, Ali Ghiasi Quantum/Marvell

Comment Type TR Comment Status R jtol

Case B at 0.4 MHz was added due to risk of scape and peaking in the band from 0.04 MHz to 1.333 MHz, but even after adding test case B the difference between test case A and B is a decade where PLL peaking may result in system failure. All other points in the table are separated by 3.3x with exception of point A to B which is a decade.

SuggestedRemedy

Please add one additional point between A and B at 0.1333 MHz with amplitude of 1.5 UI.

Response Response Status U

REJECT.

A similar proposal to add the (0.1333 MHz, 1.5 UI) test case to the PHYs and interfaces being defined by the P802.3ck Task Force was not accepted. See the response to comment #35 in https://www.ieee802.org/3/ck/comments/draft2p0/8023ck_D2p0_final_closedcomments.pdf#page=46.

No data has been provided to demonstrate that a practical receiver that meets the jitter tolerance test conditions defined in the draft will not interoperate with a compliant transmitter and channel. No data has been provided to demonstrate that the addition of the proposed test case provides a higher assurance of interoperability.

No change to the draft.

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CI 00	SC 0	P0	L0	# 204
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Thompson, Geoff GraCaSI S.A./Independent

Comment Type ER Comment Status R bucket

Balloting instructions are incomplete. There is no direction as to which version to use for page references, i.e. ALL SECTIONS version or the page numbering for each of the 9 sections. My comments will refer to the ALL SECTIONS pagination numbering.

SuggestedRemedy

Specify one or the other in the balloting instructions for each recirculation and subsequent ballot. My preference is for the ALL SECTIONS version.

Response Response Status U

REJECT.

This comment pertains to the ballot announcement and not the draft.

The ballot announcement included the following statement which unambiguously points to the "ALL SECTIONS" draft.
 "The IEEE P802.3 (IEEE 802.3dc) Maintenance #16: Standard for Ethernet (Revision) draft D2.0 may be downloaded from:

URL:
 <https://ieee802.org/3/private/maint/dcballot/D2p0/P8023_D2p0_ALL_SECTIONS.pdf>"

No reference to the files for individual sections is made in the ballot announcement.

No change to the draft.

CI 21	SC 21.5.4	P686	L49	# 205
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Thompson, Geoff GraCaSI S.A./Independent

Comment Type ER Comment Status A equations, bucket

Symbols in Table 21-1 seem to be incorrect. They certainly are not customary or consistent with past use.

SuggestedRemedy

Revise to be consistent with symbology used in previous revisions.

Response Response Status U

ACCEPT IN PRINCIPLE.

Resolve with comment #103.

CI FM	SC FM	P23	L16	# 209
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Thompson, Geoff GraCaSI S.A./Independent

Comment Type ER Comment Status A bucket

The referenced text still doesn't even hint at the change that made 802.3 into a real Ethernet standard, i.e. pulling EtherTypes into the scope of the standard. I feel we should put in a little something.
 (See my e-mail of July 6, 2021 to Roger Marks (attached) for a more complete explanation.)

SuggestedRemedy

Change the text of the last two sentences of the paragraph from:
 "The title was changed to Standard for Ethernet with the 2012 Revision. Since 1985, new media options, new speeds of operation, and new capabilities have been added to IEEE Std 802.3. A full duplex MAC protocol was added in 1997."

To:
 "Since 1985, new media options, new speeds of operation, and new capabilities have been added to IEEE Std 802.3. The capabilities specified for the upper layer interface were broadened by including EtherType into the scope and a full duplex MAC protocol was added in 1997. The title was changed to Standard for Ethernet with the 2012 Revision."

Response Response Status U

ACCEPT IN PRINCIPLE.

Change the text of the last two sentences of the second paragraph from:
 "The title was changed to Standard for Ethernet with the 2012 Revision. Since 1985, new media options, new speeds of operation, and new capabilities have been added to IEEE Std 802.3. A full duplex MAC protocol was added in 1997."

to:
 "Since 1985, new media options, new speeds of operation, and new capabilities have been added to IEEE Std 802.3. A full duplex MAC protocol and the ability to use an EtherType to specify the MAC client protocol were added in 1997. The title was changed to Standard for Ethernet with the 2012 Revision."

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Cl 00 SC 0 P0 L0 # 210

Thompson, Geoff

GraCaSI S.A./Independent

Comment Type ER Comment Status A llc

In many places in the standard the text still implies that the next layer up is only LLC. This is not the case for several reasons including bridging and upper layer clients producing or receiving frames identified by EtherType. While this has been fixed many places in the standard, it needs to be gone through and fixed in the remaining instances.

SuggestedRemedy

I did a search on the term "LLC" to produce a page list then went through and evaluated each (until I pooped out at page 3547). I have produced editing recommendations for each instance. These are in a separate file named LLC occurrences.xls. Please incorporate the recommended changes.

Response Response Status U

ACCEPT IN PRINCIPLE.

[Editor's note: Clause changed from "All" to "00" and subclause changed from "All" to "0" to facilitate sorting. Also not that "LLC occurrences.xls" was posted as "thompson_1_0821.xls".]

Correct all instances where "Logical Link Control" or "LLC" is referenced but the more generic "MAC client" should be referenced instead. Use <http://ieee802.org/3/dc/comments/thompson_1_0821.xls> as guidance with editorial license.