

EEE P802.3dj D1.0 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet 1st Task Force review comment

Cl 116 SC 116 P92 L40 # 445
 Simms, William NVIDIA
 Comment Type E Comment Status D (editorial)
 spacing of text on line 40 is different than spacing of the same text in lin 38
 SuggestedRemedy
 make spacing the same
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.2 P196 L53 # 472
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 Is respectively necessary here? X is just a list of different rates.
 SuggestedRemedy
 remoe the ", repsectively"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 119 SC 119.2.5.8 P112 L27 # 470
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 Extraneous "either"
 SuggestedRemedy
 remove the word "either"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion

Cl 176 SC 176.2 P197 L3 # 473
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 Is respectively necessary here? X is just a list of different rates.
 SuggestedRemedy
 remoe the ", repsectively"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.2 P196 L46 # 471
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 Is respectively necessary here? X is just a list of different rates.
 SuggestedRemedy
 remoe the ", repsectively,"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.5.1.1 P200 L35 # 479
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 test pattern generate is overlapping with the IS_SIGNAL_requst line in Figure 176-2
 SuggestedRemedy
 Move "test pattern genrate" to not overlap with the inst.IS_SIGNAL.request/indication line
 Same in Figure 176-9,10,13,14,15,19,20,24,25,26
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

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Cl 176 SC 176.5.1.1 P200 L35 # 478
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 test pattern generate is overlapping with the IS_SIGNAL_requst line in Figure 176-2
 SuggestedRemedy
 Move "test pattern genrate" to not overlap with the inst.IS_SIGNAL.request line
 Same in Figure 176-9,10,13,14,15,19,20,24,25,26
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.5.1.3.5 P203 L25 # 476
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 It's a multiplexor or a multiplexing function
 SuggestedRemedy
 add the word function after multiplexing
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.5.1.5 P205 L20 # 484
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 Detailed functions and state diagrams has no content
 SuggestedRemedy
 Change 176.5.1.6 to be a sub-heading of 176.5.1.5 (4th tier I think).
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.5.1.6.5 P208 L9 # 483
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 I think it's best if the Start of the counter is the last thing in the Box
 SuggestedRemedy
 Move "Start symbol_pair_lock_counter_demux" to be the last thing in
 LOSS_OF_SYMBOL_PAIR_LOCK box
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.5.2 P208 L40 # 601
 de Koos, Andras Microchip Technology
 Comment Type E Comment Status D (editorial)
 Is specifying the 1:8 SM-PMA really necessary? Apart from the layers it attaches to and
 the labels on the interfaces, it is identical to the 8:1 PMA. Same thing for 16:2 vs 2:16 for
 400G, 32:4 vs 4:32 for 800G, and 16:8 vs 8:16 for 1.6T.
 Alternately, could SM-PMAs be specified unidirectionally, rather than specifying transmit
 and receive? So 8:1 would only specify the PCS-PMD direction, and 1:8 would specify the
 PMD-PCS direction.
 Having so many sub-clauses that just point to other sub-clauses is an easy way to cause
 confusion.

SuggestedRemedy
 Consider specifying the 1:8 and 8:1 (and equivalent SM-PMAs for other rates) together.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.6 P213 L1 # 600
 de Koos, Andras Microchip Technology
 Comment Type E Comment Status D (editorial)
 Would it not be possible to merge Clause 176.5 and 176.6? They are 95% similar, so
 repeating everything is hardly necessary.
 Even the figures for 200GBASE-R SM-PMA (Figure 176û3, Figure 176û4, Figure 176û5)
 have a general form with a variable number of PCSs that are suitable for 400GBASE-R
 SuggestedRemedy
 Consider merging subclauses 176.5 and 176.6
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

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Cl 176 SC 176.6.1 P213 L4 # 602
 de Koos, Andras Microchip Technology
 Comment Type E Comment Status D (editorial)
 Clauses 176.6, 176.7 and 176.8 are missing the 'overview' sub-clauses (with tables) that exist in Clause 176.5 (e.g. 176.5.1.1). The equivalent content is there but is placed directly in each PMA sub-clause (e.g. 176.6.1)
 SuggestedRemedy
 Structure the subclauses consistently between 200GBASE-R and 400GBASE-R, 800GBASE-R, 1.6TBASE-R.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.7.1 P221 L20 # 379
 Maniloff, Eric Ciena
 Comment Type E Comment Status D (editorial)
 Table 176-7 Includes two references to 400GBASE-R, these should be replaced with 800GBASE-R
 SuggestedRemedy
 Replace the text "400GBASE-R" with "800GBASE-R" in Table 176-7.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176 SC 176.8.1.1 P231 L14 # 480
 Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)
 test pattern check is overlapping with IS_SIGNAL.request
 SuggestedRemedy
 Move "test pattern check" to no overlap with PMA.IS_SIGNAL.request in Figure 176-21
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A P548 L6 # 196
 Ran, Adeo Cisco
 Comment Type ER Comment Status D (editorial)
 The annex title includes "Control function and start-up protocol", while in the subclauses and text there are alternative terms such as "interface control function", "Start-up protocol", and "training" (176A.9).
 This mega-function requires nomenclature to describe it. It would be good to have an acronym-friendly name so that it can be included in tables of other clauses (e.g. Table 116-3, Table 179-1).
 SuggestedRemedy
 A presentation with proposed nomenclature is planned.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 The following presentation was reviewed by the 802.3dj task force at the May Interim meeting:
https://www.ieee802.org/3/dj/public/24_05/law_3dj_01_2405.pdf
 May Interim Straw poll # has the following results:
 Straw Poll #4
 The nomenclature that I prefer for function defined in Annex 176A is:
 A. "Inter-sublayer link training" (ILT or ISLT)
 B. "Sublink training" (SLT)
 Results (all): A: 81, B: 5

See:
https://www.ieee802.org/3/dj/public/24_05/motions_3dj_2405.pdf

Update the draft such that references to the link training function (AKA control function) use the following name and acronym instead:
 "inter-sublayer link training"
 "ILT".
 Implement with editorial license.

[Editor's note: The comment type was change from ER to T as it was deemed somewhat technical.]

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Cl 176A SC 176A P555 L29 # 446
 Simms, William NVIDIA
 Comment Type E Comment Status D (editorial)
 3 states of Coefficient select echo are undefined
 SuggestedRemedy
 note in table 176A-3 that 010, 011, 100 are undefined/invalid
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A.2 P548 L24 # 198
 Ran, Adeo Cisco
 Comment Type ER Comment Status D (editorial)
 "tx_symbol and rx_symbol variables" do not appear in this annex. They are in fact parameters of the service interface primitives of the sublayer that implements the control function.
 SuggestedRemedy
 Tie the text defining the symbols to the service interface of the sublayer.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A.4.1+ P555 L46 # 447
 Simms, William NVIDIA
 Comment Type E Comment Status D (editorial)
 Should the status field name be unqiufied? The field name in the text of the table and text sections below the table do not clearly identify text as a field.
 SuggestedRemedy
 Change Receiver ready to RECEIVER_READY or at maybe receiver_ready and use the same in the text below the table 176A-3- Status field structure. Pertains to all field names.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A.6.4 P558 L21 # 565
 Law, David HPE
 Comment Type E Comment Status D (editorial)
 176A.6.4 says that 'The variables coef_req, coef_sts, and k are defined in 176A.10.3.1.', however, 176A.10.3.1 'Variables' uses all lowercase for the coef_sts values (e.g., updated, coefficient at limit and equalization limit) and coef_req (e.g, decrement, increment) whereas 176A.10.3.1 uses all uppercase for the coef_sts values (e.g., UPDATED, COEFFICIENT AT LIMIT AND EQUALIZATION LIMIT) and coef_req (e.g., DECREMENT, INCREMENT).
 SuggestedRemedy
 The formatting of the variable values defined in 176A.10.3.1 'Variables' and used in 176A.6.4 should match.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A.6.4 P558 L46 # 568
 Law, David HPE
 Comment Type E Comment Status D (editorial)
 Change 'coef_sts = COEFFICIENT AT LIMIT' (COEFFICIENT misspelt) to read 'COEFFICIENT AT LIMIT'
 SuggestedRemedy
 See comment.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A.6.4 P558 L54 # 448
 Simms, William NVIDIA
 Comment Type E Comment Status D (editorial)
 It took me longer than usual to realize the algorithm continues on page 559
 SuggestedRemedy
 Maybe put a '---continued---' at the last line of page 558. Disregard if this is inconsistent with IEEE style
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

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Cl 176A SC 176A.9 P560 L19 # 197

Ran, Adeo Cisco
 Comment Type ER Comment Status D (editorial)

The "Segment by segment training" seems to be an introductory subclause that explains the purpose of the whole thing.

It would help readers if this introduction is placed at the beginning of the annex. The current introduction in 176A.1 seems too brief.

SuggestedRemedy

Move 176A.9 and its subclauses into 176A.1 (with some hierarchy) or after it.

Rephrase the text as necessary to make it a good introduction to the control function (e.g., explain what "RTS" stands for).

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A.10.4 P570 L9 # 557

Law, David HPE
 Comment Type E Comment Status D (editorial)

Subclause 176A.10.1 'State diagram conventions' says that 'The notation used in the state diagrams follows the conventions of 21.5.'. Subclause 21.5.3 'State transitions' says 'The following terms are valid transition qualifiers:' and item d) says 'An unconditional transition: UCT'. As a result, it is not necessary to expand UCT on it's first use in Annex 176A.

SuggestedRemedy

Change the text 'UCT (unconditional transition)' to read 'UCT'.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176A SC 176A-6 P568 L21 # 449

Simms, William NVIDIA
 Comment Type ER Comment Status D (editorial)

Figure 176A-6 has an extraneous < in the name 'local_tf_lock<*'.

SuggestedRemedy

change to 'local_tf_lock**'

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 176D SC 176D.3.3 P598 L16 # 450

Simms, William NVIDIA
 Comment Type E Comment Status D (editorial)

Where does the value for SNDR of 32.5dB come from?

SuggestedRemedy

No change suggested, looking for source material

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 177 SC 177.4.6.1 P255 L25 # 174

Ramesh, Sridhar Maxlinear Inc
 Comment Type E Comment Status D (editorial)

"Pad frame sequence" naming does not convey purpose in alignment. Suggest to call this field "Frame Alignment Sequence" instead.

SuggestedRemedy

Pad Frame Alignment Sequence

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 177 SC 177.6.3 P262 L8 # 491

Slavick, Jeff Broadcom
 Comment Type E Comment Status D (editorial)

In Figure 177-8 the wrong character is showing up for the <= symbol

SuggestedRemedy

Fix <= symbol in Figure 177-8

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

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Cl 178 SC 178 P270 L17 # 23
 Liu, Cathy Broadcom
 Comment Type E Comment Status D (editorial)
 Table 178-4 "120F-1.6TGAUI-16 C2C"
 SuggestedRemedy
 change to "120F-1.6TAUI-16 C2C"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 179B SC 179B P670 L # 25
 Liu, Cathy Broadcom
 Comment Type E Comment Status D (editorial)
 Figure 179B-1 figure is not showing completely in my PDF file
 SuggestedRemedy
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 179A SC 179A P664 L # 24
 Liu, Cathy Broadcom
 Comment Type E Comment Status D (editorial)
 Figure 179A-1 and figure 179A-2 are not showing completely in my PDF file
 SuggestedRemedy
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 179B SC 179B P672 L # 26
 Liu, Cathy Broadcom
 Comment Type E Comment Status D (editorial)
 Figure 179B-2 figure is not showing completely in my PDF file
 SuggestedRemedy
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 179A SC 179A.7 P668 L9 # 393
 Kocsis, Sam Amphenol
 Comment Type E Comment Status D (editorial)
 "TP0 and TP5"
 SuggestedRemedy
 Change to "TP0d and TP5d"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.

Cl 179C SC 179C.1 P682 L38 # 394
 Kocsis, Sam Amphenol
 Comment Type E Comment Status D (editorial)
 "QSFP-DD800"
 SuggestedRemedy
 Change to "QSFP-DD1600"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license and discretion.
 [Editor's note: Changed subclause to 179C.1]

Cl 184 SC 184.6.5 P463 L 6 # 558

Law, David HPE

Comment Type E Comment Status D (editorial)

The variable 'alignnment_status' used in the LOSS_OF_ALIGNMENT and ALIGNMENT_ACQUIRED states is misspelt.

SuggestedRemedy

Suggest that 'alignnment_status' should read 'alignment_status'.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
Implement with editorial license and discretion.