

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 00 SC P L # 21
Reintjes, Maurice

Comment Type E Comment Status R

SuggestedRemedy

Replace the 6 occurrences in Part 1, 256 occurrences in Part 2, and the 2 occurrences in Part 5 of "Behaviour" with "Behavior". Both British and American English spelling is acceptable, however brevity should trump word choice. Please use the one which has a shorter length to save paper and storage space

Response Response Status C

REJECT.

In IEEE Std 802.3 the spelling 'behaviour' is used throughout MIB clauses and their associated Annexes, and in any references to the behaviours defined there. Since ISO/IEC 10165-4:1991 is an ISO standard it uses the spelling 'behaviour' and to meet this externally defined template we need to use the same spelling. In all other instances the spelling 'behavior' is used.

CI 01 SC .1.3.2 P 140 L 2 # 2
LANDRY, MATTHEW SILICON LABORATO

Comment Type E Comment Status A

The phrase "signals defined the appropriate clauses" is not grammatically correct.

SuggestedRemedy

Replace "signals defined the appropriate clauses" with "signals defined in the appropriate clauses."

Response Response Status C

ACCEPT.

CI 01 SC 1.3 P 144 L 19 # 63
Dawe, Piers Avago

Comment Type T Comment Status R

All standards are subject to revision,': this is an unnecessary statement about all the standards in the world (not just IEEE ones), and in the case of the frozen old IEC 11801 for example, not true. Giving the lie to the assertion.

SuggestedRemedy

Delete "All standards are subject to revision, and"

Response Response Status C

REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft and a restatement of a previously rejected comment. In addition Geoff says the comment is incorrect.

CI 01 SC 1.3 P 145 L 2 # 64
Dawe, Piers Avago

Comment Type T Comment Status A

ANSI X3.263-1995, Revision 2.2 (1 March 1995), FDDI Twisted Pair—Physical Medium Dependent (TP-PMD) (ISO/IEC CD 9314-10). The ISO/IEC draft never made it to a standard, and it (or CDF if different) was withdrawn.

SuggestedRemedy

CDF? As it was withdrawn and the equivalent ANSI document should be valid and available, delete the ISO/IEC reference

Response Response Status C

ACCEPT.

CI 01 SC 1.3 P 150 L 32 # 56
Dawe, Piers Avago

Comment Type E Comment Status A

Single-Pair High-Speed Digital Subscriber Line (SHDSL) transceivers.

SuggestedRemedy

Single-pair high-speed digital subscriber line (SHDSL) transceivers. BTW it's superseded by a 12/03 version plus amendments.

Response Response Status C

ACCEPT IN PRINCIPLE.

While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

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CI 01 SC 1.3 P 150 L 37 # 57
 Dawe, Piers Avago
 Comment Type E Comment Status A
 Very High-speed Digital Subscriber Line Foundation.
 SuggestedRemedy
 Very high speed digital subscriber line transceivers.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.
 According to the ITU web site G.993.1 (11/01) is titled 'Very high speed digital subscriber line foundation '. We will however correct the capitalization.

CI 01 SC 1.3 P 150 L 39 # 58
 Dawe, Piers Avago
 Comment Type E Comment Status A
 Handshake Procedures For Digital Subscriber Line (DSL) Transceivers.
 SuggestedRemedy
 Handshake procedures for digital subscriber line (DSL) transceivers.
 Response Response Status C
 ACCEPT.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

CI 01 SC 1.3 P 150 L 42 # 59
 Dawe, Piers Avago
 Comment Type E Comment Status A
 Optical fibre submarine cable systems—Forward error correction for submarine systems.
 SuggestedRemedy
 Just "Forward error correction for submarine systems.". Also, this entry is out of order.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, it will be accepted since it is a single instance change.
 According to the ITU web site G.975, 2000 is titled 'Forward error correction for high bit rate DWDM submarine systems '. We will use this title.

CI 01 SC 1.4 P 153 L 22 # 8
 Thompson, Geoff Nortel
 Comment Type ER Comment Status A
 Extra characters
 SuggestedRemedy
 Change text: "1.4.34 1.4.xxx 10GBASE-KX4:"
 To: "1.4.34 10GBASE-KX4:"
 Response Response Status C
 ACCEPT.

CI 01 SC 1.4 P 155 L 5 # 9
 Thompson, Geoff Nortel
 Comment Type E Comment Status A
 Numbers are no longer correct
 SuggestedRemedy
 Renumber this definition and all subsequent definitions whose number has been affected by additions and deletions to the definitions clause
 Response Response Status C
 ACCEPT.

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CI 01 SC 1.4 P 160 L 30 # 10
Thompson, Geoff Nortel

Comment Type TR Comment Status R

Text is incorrect. the term "data frame" also appears (at least) in clauses 2 and 4

SuggestedRemedy

I'm not sure. I think that this is a definition for an old term that was pasted after a new label. This is a result of messing around with something that shouldn't have been fixed. The cure is worse than the disease.

Response Response Status W

REJECT.

Unable to find 'data frame' in either Clause 2 or Clause 4.

CI 01 SC 1.4.142 P 161 L 1 # 11
Thompson, Geoff Nortel

Comment Type TR Comment Status R

Definition is not fully correct. Differential Manchester is used several other places within 802.3 such as

AUI: Tx & Rcv
1BASE5 Tx & Rx
10BASE-T: Tx & Rx

SuggestedRemedy

Correct definition

Response Response Status W

REJECT.

AUI, 1BASE5 and 10BASE-T use Manchester encoding on differential pairs. This is different from Differential Manchester encoding.

CI 01 SC 1.4.155 P 162 L 52 # 13
Thompson, Geoff Nortel

Comment Type ER Comment Status R

Definition limits context of EPD to Gig. According to (at least) 30.2.1.5 it is also used for 10G

SuggestedRemedy

Expand text to encompass correct scope or generalize (if possible)

Response Response Status U

REJECT.

Can't find any instance of EPD in 10Gb/s related clauses.

CI 01 SC 1.4.231 P 167 L 10 # 14
Thompson, Geoff Nortel

Comment Type E Comment Status A

Regarding the text:

1.4.231 midspan: An entity located within a link segment that is distinctly separate from and between the Medium Dependent Interfaces (MDIs).

1.4.232 Midspan PSE: Power Sourcing Equipment (PSE) that is located in the Midspan.

The grammar and usage is a little messy here. In .231 the term "midspan" was originally capitalized and, as thus, was a proper noun. Note that it is still used that way in .232. Now that it is lower case, I'm not sure it can no still be a noun. My grammar consultant says that it is similar to "midwinter" used as shorthand for "midwinter academic break". Therefore, I think the appropriate fix is:

SuggestedRemedy

1.4.231 midspan: An equipment entity located within a link segment that is distinctly separate from and between the Medium Dependent Interfaces (MDIs).

1.4.232 Midspan PSE: Power Sourcing Equipment (PSE) that is located in the midspan.

Response Response Status C

ACCEPT IN PRINCIPLE.

In IEEE 802.3-2005 subclause 1.4.215 defines 'midspan: An entity ...'. The term midspan was not capitalized in IEEE 802.3-2005, this was not a change made in IEEE 802.3ay.

Will be changed to read:

1.4.231 midspan will be unchanged. We will lower case the 'midspan' in 1.4.232 Midspan PSE.

CI 01 SC 1.4.235 P 167 L 22 # 15
Thompson, Geoff Nortel

Comment Type E Comment Status A

The term is also used in clause 42

SuggestedRemedy

1.4.235 multipoint device: A device with multiple instances of MDI. (See IEEE 802.3, Clause 40 & 42.)

Response Response Status C

ACCEPT.

This comment is out of scope as it does not relate to text that changed in the last draft but will be accepted.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 01 SC 1.4.94 P 158 L 37 # 16
 Bennett, Mike LBNL

Comment Type E Comment Status R

Why do we define Categories 3 through 5 balanced cabling and not Categories 5e and 6? It seems to me that adding the definitions for Categories 5e and 6 balanced cabling would make the definitions section more complete

SuggestedRemedy

Add definitions for Categories 5e and 6 balanced cabling

Response Response Status C

REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft.

In addition the cabling is referenced through the ISO/IEC definition where possible - therefore Cat 5e does not appear in the standard. In respect to Cat 6 no text was provided.

CI 01 SC 1.5 P 176 L 49 # 60
 Dawe, Piers Avago

Comment Type E Comment Status A

abstract syntax notation one

SuggestedRemedy

Abstract Syntax Notation One. BTW there's a 2002 version of ISO/IEC 8824.

Response Response Status C

ACCEPT IN PRINCIPLE.

While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

CI 01 SC 1.5 P 176 L 53 # 65
 Dawe, Piers Avago

Comment Type E Comment Status R

Bit Error Ratio Tester, Differential Manchester encoding, Electromagnetic Interference, Multiplexer

SuggestedRemedy

bit error ratio tester, differential Manchester encoding, electromagnetic interference, multiplexer

Response Response Status C

REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. In addition it would require multiple changes throughout the draft.

CI 01 SC 1.5 P 179 L 29 # 19
 Law, David 3Com

Comment Type E Comment Status A

A PHY is a 'Physical Layer entity', not a 'Physical Layer entity sublayer', see definition in subclause 1.4.281.

SuggestedRemedy

Change 'Physical Layer entity sublayer' to read 'Physical Layer entity'.

Response Response Status C

ACCEPT.

While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

CI 04 SC 4.2.7.2 P 209 L 54 # 20
 Law, David 3Com

Comment Type T Comment Status A

A multiplication symbol in Pascal is a '*'.

SuggestedRemedy

Change the multiplication to a '*'.

Response Response Status C

ACCEPT.

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CI 04 SC 4.2.7.2 P 209 L 54 # 67
 Dawe, Piers Avago
 Comment Type E Comment Status A
 If this is Pascal
 SuggestedRemedy
 Should use * for multiplication not the usual diagonal cross
 Response Response Status C
 ACCEPT.

CI 04 SC 4.4.2 P 228 L 2 # 23
 Dawe, Piers Avago
 Comment Type E Comment Status A
 Underlined full stop
 SuggestedRemedy
 Fix
 Response Response Status C
 ACCEPT.

CI 07 SC 7.6.2 P 279 L 49 # 25
 Dawe, Piers Avago
 Comment Type E Comment Status A
 The reference IEC 60807-2 is dated in the list of references
 SuggestedRemedy
 No need to date it here or on next page
 Response Response Status C
 ACCEPT.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, the date will be removed since this is limited to a few changes.

CI 13 SC 13.4.1.2 P 449 L 9 # 12
 Thompson, Geoff Nortel
 Comment Type ER Comment Status A
 Note mentions the use of a 2m "drop cable" in a baseband environment. While that is colloquially correct, it does not conform to the 1.4 definition for "drop cable" which is restricted to the 10 Mb/s broadband case. This is the only instance of this mis-use that I can find.
 SuggestedRemedy
 Change "drop cable" to "AUI cable"

Response Response Status C
 ACCEPT.

CI 14 SC 14.10.1.1 P 484 L 25 # 26
 Dawe, Piers Avago
 Comment Type E Comment Status A
 The reference ISO/IEC 9646-2 is dated in the list of references
 SuggestedRemedy
 No need to date it here. Similarly in 14.10.1.2, 3, 4. Other PICS may be similar.

Response Response Status C
 ACCEPT.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, the date will be removed since this is limited to a few changes.

CI 14 SC 14.2.3 P 462 L 49 # 27
 Dawe, Piers Avago
 Comment Type E Comment Status R
 Font too small. There's plenty of space here.
 SuggestedRemedy
 Change to a minimum of 8 point. Also Figure 18-3.
 Response Response Status C
 REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. The risk of creating an error when editing the figure outweighs any benefit from this editorial change.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

Cl 21 SC 21 P1 L # 24
Dawe, Piers Avago

Comment Type E Comment Status A
Another page 1

SuggestedRemedy

Number the pages through the whole standard consistently: don't restart the sequence just because the document is presented in several portions of pdf.

Response Response Status C
ACCEPT.

Cl 21 SC 21 P1 L 23 # 32
Dawe, Piers Avago

Comment Type T Comment Status R

100BASE-T seems to include twisted-pair 100BASE-T, includes 100BASE-FX but does not include 100BASE-LX10 or 100BASE-BX10. Very confusing. Further, 100BASE-FX does not use baseband modulation but intensity modulation - very far from baseband.

SuggestedRemedy

Can we change the title to "Introduction to 100 Mb/s networks"? Suggest change most or all occurrences of "100BASE-T" in this clause to "100 Mb/s Ethernet".

Response Response Status C
REJECT.

The global change from 100BASE-T to 100 Mb/s Ethernet would be an attempt to revise history. It was also decided to include all EFM related PHYs, regardless of their speed, under the EFM introduction.

In addition this comment is out of scope as it does not relate to text that changed in the last draft.

Cl 21 SC 21.1 P1 L 39 # 38
Dawe, Piers Avago

Comment Type T Comment Status R

The bit rate is faster, bit times are shorter, packet transmission times are reduced, and cable delay budgets are smaller—all in proportion to the change in bandwidth." The delay through the cable, if the cable is long, does not reduce in proportion to the change in signalling or data rate - it is partly or wholly, depending what you mean by cable delay, set by the speed of the electromagnetic wave. Compare 34.1. Bandwidth has nothing to do with it.

SuggestedRemedy

Delete at least "cable delay budgets" and either "packet transmission times" or "—all in proportion to the change in bandwidth". If keeping "proportion to", change "bandwidth" to "bit rate" or "data rate". Consider deleting the whole sentence.

Response Response Status C
REJECT.

It does not say the cable delay is shorter, it says the cable delay budgets are smaller, which is true. Cable delay budgets are primarily shorter at higher speeds because the diameter of the collision domain shrinks.

In addition, this comment is out of scope as it does not relate to text that changed in the last draft.

Cl 21 SC 21.1 P3 L 39 # 37
Dawe, Piers Avago

Comment Type E Comment Status R

"100BASE-T extends the IEEE 802.3 MAC to 100 Mb/s." This text is obsolete.

SuggestedRemedy

Change to "100 Mb/s Ethernet has extended the IEEE 802.3 MAC from 10 Mb/s to 100 Mb/s."

Response Response Status C
REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. The text is also factually correct.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

Cl 21 SC 21.1.2 P 2 L 42 # 33
 Dawe, Piers Avago

Comment Type T Comment Status R

This subclause is misleading because it includes some but not all 100 Mb/s Physical Layer signaling systems.

SuggestedRemedy

Add sentence "100BASE-LX10 and 100BASE-BX10 (Clause 58) use a pair of single-mode fibers and one single-mode fiber, respectively."

Response Response Status C

REJECT.

It was decided to include all EFM related PHYs, regardless of their speed, under the EFM introduction.

In addition this comment is out of scope as it does not relate to text that changed in the last draft.

Cl 30 SC 30.1 P 285 L 5 # 28
 Dawe, Piers Avago

Comment Type E Comment Status R

Layer Management: in ISO/IEC 7498-1:1994 this term is in lower case. There is a definition but it's not very specific nor does it contradict the natural meaning of the words.

SuggestedRemedy

Change to lower case

Response Response Status C

REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. In addition it would require multiple changes throughout the draft.

Cl 30 SC 30.2.3.1.3 P 326 L 1 # 72
 Ganga, Ilango Intel

Comment Type ER Comment Status A

Having comma around Auto-Negotiation changes the meaning of this sentence. Remove comma around Auto-Negotiation as follows:

"If Clause 28, Clause 37 or Clause 73 Auto-Negotiation is present, then.."

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT.

Cl 30 SC 30.2.5 P 192 L 14 # 31
 Dawe, Piers Avago

Comment Type E Comment Status A

Object Name Object Type Operations Supported

SuggestedRemedy

Object name Object type Operations supported

Response Response Status C

ACCEPT.

Cl 30 SC 30.2.5 P 295 L 3 # 71
 Ganga, Ilango Intel

Comment Type TR Comment Status A

There are notes in many places that these have been deprecated and moved to 802.1AX. What is the decision regarding the Link Aggregation related manged objects in Clause 30.2.5 Capabilities, Figure 30-3 and Table 30-2. The aggregator hierarchy is already listed in 802.3AX, Fig 6-2.

Will this diagram Fig 30-3 and tables Table 30-2 be updated or a suitable note added? If it remains here then the cross reference in the diagram/hierarchy/tables should be changed to new references in 802.1AX.

SuggestedRemedy

Update the diagram Fig 30-3 and Table 30-2 as appropriate.

Response Response Status C

ACCEPT IN PRINCIPLE.

Add notes to objects in Fig 30-3 and Table 30-2 to state these objects have been deprecated. The text will read 'NOTE—This object is deprecated by IEEE Std 802.1AX-200X.'

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 30 SC 30.2.5 P 299 L 51 # 29
 Dawe, Piers Avago
 Comment Type E Comment Status A
 Mandatory
 SuggestedRemedy
 mandatory
 Response Response Status C
 ACCEPT.

CI 30 SC 30.2.5 P 302 L 10 # 68
 Ganga, Ilango Intel
 Comment Type TR Comment Status A
 In table 30-1e Capabilities, the Forward Error Correction Package is defined as (optional). I think this this should be marked as "(conditional)" instead of "(optional)"; conditional meaning the Forward Error Correction Package must be present if FEC is implemented.
 SuggestedRemedy
 Change Forward Error Correction Package (optional) to Forward Error Correction Package (conditional)
 Response Response Status C
 ACCEPT.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, it will be accepted.

CI 30 SC 30.5.1.1.14 P 370 L 38 # 70
 Ganga, Ilango Intel
 Comment Type E Comment Status A
 Add missing cross references (hyperlink) to 65.2 (page 370, line 38), 45.2.7.3 (page 370, line 46), 45.2.7.5 (on page 371, line 17), 45.2.7.6 (page 372, line 40) and 45.2.1.63 (page 371, line 51).
 Also cross references are missing in subsequent pages in Subclauses 3.5.1.1.x
 SuggestedRemedy
 As per comment
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 These cross references exist, it is just that they are not set up as hyperlinks. This will be corrected.

CI 30 SC 30.5.1.1.14 P 370 L 40 # 69
 Ganga, Ilango Intel
 Comment Type E Comment Status A
 Grammatical error: should be rephrased as "operation of the PHY".
 SuggestedRemedy
 Change sentence to read as follows:
 A GET operation returns the current mode of operation of the PHY.
 Response Response Status C
 ACCEPT.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

CI 30 SC 30.6.1.1.8 P 376 L 13 # 73
 Ganga, Ilango Intel
 Comment Type T Comment Status A
 Refer to the last sentence of subclause 30.6.1.1.8:
 "For Clause 73 Auto-Negotiation devices, the Selector Field is defined in 73.6.1".;
 This sentence appears to be redundant since this information is already mentioned on the second sentence of this paragraph (line 9, page 376).
 SuggestedRemedy
 The last sentence is redundant and can be deleted safely.
 Response Response Status C
 ACCEPT.
 This comment is out of scope as it does not relate to text that changed in the last draft. This however does correctly point out redundant text.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 30B SC 30B.2 P731 L 46 # 74
 Ganga, Ilango Intel

Comment Type TR Comment Status A

Some object templates/enumerations related to Link Aggregation are still defined in Annex 30B. Should'nt this be moved to 802.1AY. Any reason why it is still listed in 30B? Should'nt there be a note similar to Clause 30 that these are deprecated. However not all of these templates are listed in 802.1AX/D1.1

This comment also applies to 802.1AX/D1.1

The following on page 731:

```
LACPActivity ::= ENUMERATED {
active (0), --Port is Active LACP
passive (1) --Port is Passive LACP
}
LACPTimeout ::= ENUMERATED {
short (0), --Timeouts are Short
long (1) --Timeouts are Long
}
```

May also apply to the following on page 728
 AggID, AggPortState, AggState, etc.,

SuggestedRemedy

If appropriate move the LinkAggregation related object templates/enumerations to 802.1AX Annex 6A and add a note here that these are deprecated.

Response Response Status C

ACCEPT IN PRINCIPLE.

These enumerations are still listed here as we are not deleting Link Aggregation management, we are just deprecating it. Based on this we will add a note that these are deprecated.

CI 31B SC 31B.4 P755 L 1 # 75
 Ganga, Ilango Intel

Comment Type E Comment Status A

In this Annex PICS is referred as "Protocol Conformance Statement (PICS)", whereas in the rest of the document it is referred as "Protocol implementation conformance statement (PICS)". Also please note the capitalization.

SuggestedRemedy

Change this to "Protocol implementation conformance statement (PICS)"

Response Response Status C

ACCEPT.

While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

CI 34 SC 34.1.2 P 2 L 40 # 39
 Dawe, Piers Avago

Comment Type T Comment Status R

"The 1000BASE-X family of Physical Layer implementations is composed of 1000BASE-SX, 1000BASE-LX, 1000BASE-CX, and 1000BASE-KX." - not

SuggestedRemedy

Change to "The 1000BASE-X family of Physical Layer implementations is composed of 1000BASE-SX, 1000BASE-LX and 1000BASE-LX10, 1000BASE-BX10, 1000BASE-CX, and 1000BASE-KX. 1000BASE-PX10 and 1000BASE-PX20 PMD sublayers provide point-to-multipoint (P2MP) 1000BASE-X connections over passive optical networks (PONs)."

Response Response Status C

REJECT.

This is the introduction to the Gigabit Ethernet project, not the Ethernet in the First Mile project.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 36 SC 36.1.1 P 105 L 2 # 41
 Dawe, Piers Avago

Comment Type T Comment Status A

"There are currently four embodiments within this family" is not correct. Describing the media types in unnecessary in a PCS/PMA clause when there are separate PMDs.

SuggestedRemedy

Change to "This family comprises: 1000BASE-CX, 1000BASE-KX, 1000BASE-LX, 1000BASE-LX10, 1000BASE-BX10, 1000BASE-PX10, 1000BASE-PX20, and 1000BASE-SX. For 1000BASE-PX10 and 1000BASE-PX20, see also Clause 65 and Clause 66."Delete "The 1000BASE-CX embodiment specifies operation over two pairs of 150 Ω balanced copper cabling. 1000BASE-LX specifies operation over a pair of optical fibers using long-wavelength optical transmission. 1000BASE-SX specifies operation over a pair of optical fibers using shortwavelength optical transmission. Alternatively, delete all but the first sentence and add a caveat for PX in 36.1.4.

Response Response Status C

ACCEPT IN PRINCIPLE.

Delete the text 'There are currently four embodiments within this family: 1000BASE-CX, 1000BASE-KX, 1000BASE-LX, and 1000BASE-SX. The 1000BASE-CX embodiment specifies operation over two pairs of 150 Ω balanced copper cabling. 1000BASE-LX specifies operation over a pair of optical fibers using longwavelength optical transmission. 1000BASE-SX specifies operation over a pair of optical fibers using shortwavelength optical transmission'.

CI 36 SC 36.1.1 P 33 L 13 # 76
 Ganga, Ilango Intel

Comment Type T Comment Status A

There are currently four embodiments within this family. There is definition for 3 embodiments in this paragraph, however the definition for 1000BASE-KX has been left out.

SuggestedRemedy

For consistency, add the following line after the CX definition:

The 1000BASE-KX embodiment specifies Ethernet operation over electrical backplanes (See Clause 69).

Response Response Status C

ACCEPT IN PRINCIPLE.

Text deleted, see comment #41.

CI 36 SC 36.2.4 P 38 L 2 # 66
 Dawe, Piers Avago

Comment Type E Comment Status R

FC-PH is obsolete, I understand

SuggestedRemedy

For familiarity and historical accuracy, we can leave this reference but should add a current one also.

Response Response Status C

REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. In addition the comment has not provided a new reference to use.

CI 36A SC 36A P 291 L 8 # 46
 Dawe, Piers Avago

Comment Type T Comment Status A

"This annex defines test patterns that allow 1000BASE-X PMDs PMDs, with the exception of 1000BASEKX, to be tested for compliance while in a system environment." This sentence needs more work: the frame based test patterns in 59.7.1 were developed because these 36A patterns are not convenient in a system environment, and 1000BASE-LX10, 1000BASE-BX10 and 1000BASE-PX use the new patterns too.

SuggestedRemedy

Change to: "This annex defines test patterns for 1000BASE-CX, 1000BASE-LX and 1000BASE-SX. For other 1000BASE-X, see 59.7.1 and Annex 58A."

Response Response Status C

ACCEPT IN PRINCIPLE.

Annex 36A is referenced in Clause 58, 59 and 70 so it is not correct that these patterns are only used by 1000BASE-CX, 1000BASE-LX and 1000BASE-SX.

Change the text to read 'This annex defines test patterns for 1000BASE-X PMDs. The applicability of these patterns is specified in the relevant PMD clauses'.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 38 SC P105 L3 # 3
 LANDRY, MATTHEW SILICON LABORATO

Comment Type E Comment Status A
 "short wavelength Laser" should not have mixed case.

SuggestedRemedy
 make "Laser" lowercase

Response Response Status C
 ACCEPT.

CI 38 SC 38 P105 L2 # 40
 Dawe, Piers Avago

Comment Type T Comment Status R
 An optical fibre is not a baseband medium. Very far from it! It works with a carrier about 10¹⁴ Hz. And the modulation scheme used here is not baseband: it's intensity modulation. Baseband wouldn't work.

SuggestedRemedy
 Delete 'baseband', all six occurrences in each of Cl.38, 52 and 53. This has the side benefit of making some very long titles shorter.

Response Response Status C
 REJECT.

The traditional understanding of baseband for Ethernet includes simple modulation of optical signals.

This comment is also out of scope as it does not relate to text that changed in the last draft, and is a restatement of a comment that was rejected in the last ballot.

CI 38 SC 38 P105 L3 # 4
 McClellan, Brett Solarflare

Comment Type E Comment Status A
 incomplete change of case

SuggestedRemedy
 change "Laser"
 to
 "laser"

Response Response Status C
 ACCEPT.

CI 4 SC 4.A.1.1 P707 L40 # 17
 Bennett, Mike LBNL

Comment Type E Comment Status A
 Shouldn't "collision avoidance" be "collision detection"? Collision avoidance suggests a different protocol.

SuggestedRemedy
 replace avoidance with detection

Response Response Status C
 ACCEPT.

While this comment is out of scope, as it does not relate to text that changed in the last draft, it will be accepted.

CI 40 SC 40.4.4 P192 L4 # 30
 Dawe, Piers Avago

Comment Type T Comment Status R
 Comment resubmitted: "Didn't we decide that as all 1000BASE-T devices ever sold have automatic crossover, that we would make it a mandatory function? Then, would the X marking still be needed? (affects 41.5, 42.3)"

SuggestedRemedy
 AFAICS 40.4.4 applies to not-repeater 100BASE-T so the question stands. It says optional; did we not decide to declare it mandatory?

Response Response Status C
 REJECT.

We cannot absolutely confirm that ever 1000BASE-T PHY shipped supports auto-crossover. To change from optional to mandatory could therefore make a conformant implementation non conformant.

CI 40 SC 40.5.1.1 P198 L53 # 42
 Dawe, Piers Avago

Comment Type E Comment Status R
 Gratuitous capitals

SuggestedRemedy
 R/W = read/write, RO = read only, SC = self-clearing, LH = latch high

Response Response Status C
 REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. In addition it would require multiple changes throughout the draft.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 40 SC 40.7.5 P 228 L 21 # 44
 Dawe, Piers Avago
 Comment Type E Comment Status A
 Unwanted capital
 SuggestedRemedy
 Intersymbol interference
 Response Response Status C
 ACCEPT.

CI 40 SC 40.7.5 P 228 L 21 # 43
 Dawe, Piers Avago
 Comment Type T Comment Status A
 Intersymbol interference is not noise
 SuggestedRemedy
 Delete "noise"
 Response Response Status C
 ACCEPT.

CI 40 SC 40.8.2 P 229 L 40 # 35
 Dawe, Piers Avago
 Comment Type T Comment Status A
 "it is a functional requirement that a crossover function be implemented". There's a
 "Functional requirements Document" and this is not what it requires.
 SuggestedRemedy
 Simplify to ", a crossover function is needed for every link segment".
 Response Response Status C
 ACCEPT.

CI 40 SC 40.8.2 P 229 L 46 # 34
 Dawe, Piers Avago
 Comment Type T Comment Status R
 "Additionally, the MDI connector for a PHY that implements the crossover function shall be
 marked with the graphical symbol X." I thought all 1000BASE-T PHYs implement this yet
 I've never noticed the X.
 SuggestedRemedy
 Perhaps this should say "Additionally, the MDI connector for a PHY that permanently
 implements the crossover function shall be marked with the graphical symbol X."

Response Response Status C
 REJECT.
 See comment #30.
 In addition the requirement to mark a port with an X applies to a port that implements the
 crossover function, not the Automatic MDI/MDI-X (which is often referred to as auto
 crossover).

CI 40 SC 8.1.2.4 P 219 L 9 # 7
 Zimmerman, George Solarflare Communica
 Comment Type TR Comment Status A
 Allowing the distortion to be measured over ANY 30% of the UI would permit false passes,
 specifically, by allowing passes when the 30% is away from the eye opening. Based on
http://www.ieee802.org/3/axay/public/may_07/sefidvash_1_0507.pdf ,
 the desired measurement needs to be within the eye opening (see slide 7 of the above:
 "Appropriate place to apply test is after the rise/fall time where the waveform has settled to
 it's final value")
 SuggestedRemedy
 Add "centered on the eye opening" to the end of the sentence: "A PHY is considered to
 pass this test if the peak distortion is below 10mV for at least
 30% of the UI." so it reads:
 "A PHY is considered to pass this test if the peak distortion is below 10mV for at least 30%
 of the UI centered on the eye opening."
 Response Response Status W
 ACCEPT IN PRINCIPLE.

A comment in the meeting stated that 30% is too restrictive and this value should be
 increased to 60%.

The new text will read: "A PHY is considered to pass this test if the peak distortion is below
 10mV for at least 60% of the UI within the eye opening."

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 45 SC 45.2.3.12 P 104 L 20 # 1
 Anslow, Pete Nortel Networks

Comment Type E Comment Status A
 The version D1.1 text says "The assignment of bits in the 10GBASE-R and 10GBASE-T PCS status 2 register is shown in Table 25 45-79."

The Table number should be just Table 45-79. This seems to be a typo in responding to comment # 102 from the previous ballot

SuggestedRemedy
 Delete "25" and the extra paragraph mark.

Response Response Status C
 ACCEPT.

CI 45 SC 45.2.3.12 P 104 L 20 # 47
 Dawe, Piers Avago

Comment Type E Comment Status A
 Table 25?

SuggestedRemedy
 Table 45-79?

Response Response Status C
 ACCEPT.

CI 45 SC 45.2.3.12 P 104 L 44 # 50
 Dawe, Piers Avago

Comment Type E Comment Status R
 Gratuitous capitals

SuggestedRemedy
 RO = read only, LL = latching low, LH = latching high, NR = non roll-over OR, RO = Read only, LL = Latching low, LH = Latching high, NR = Non roll-over

Response Response Status C
 REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. In addition it would require multiple changes throughout the draft.

CI 45 SC 45.2.7.12 P 148 L 3 # 77
 Ganga, Ilango Intel

Comment Type ER Comment Status A
 The anchor sentence introduced in 802.3ap-2007 is missing in the 802.3ay/D1.1 document. Add the following sentence above Table 45-155

The assignment of bits in the Backplane Ethernet status register is shown in Table 45-154.

SuggestedRemedy
 Per comment

Response Response Status C
 ACCEPT.

This comment points out a merge error.

CI 45 SC 45.2.7.12.2 P 148 L 33 # 78
 Ganga, Ilango Intel

Comment Type E Comment Status A
 Missing "the" in first sentence. Change first sentence of this paragraph to read as:

"When the AN process.."

This fix has been implemented in 802.3ap-2007 but missed out during merge into 802.3ay/D1.1

SuggestedRemedy
 As per comment

Response Response Status C
 ACCEPT.

This comment points out a merge error.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

Cl 48 SC 48.1.3.3 P 231 L # 49
Dawe, Piers Avago

Comment Type T Comment Status A
Missing words. PMDs being near the bottom of the stack are not supported by 10GBASE-X.

SuggestedRemedy
10GBASE-X uses the PMD sublayers and MDIs specified in Clause 53, Clause 54 and Clause 71. The 10GBASE-CX4, 10GBASE-KX4, and 10GBASE-LX4 PMDs perform the following functions:

Response Response Status C
ACCEPT.

While gravity doesn't always go down we will change 'supports' to 'uses'.

Cl 53 SC 53.3 P 392 L 15 # 79
Ganga, Ilango Intel

Comment Type T Comment Status A
The Global transmit disable variable is currently shown in Table 53-2 as mapped to "Control Register 1". However the register/bit number listed in Column 3 is correct. It is just a name change in column 2.

SuggestedRemedy
In Table 53-2 (row 2, Column 2) change "Control register 1" to "Transmit disable register".

Response Response Status C
ACCEPT.

This comment is out of scope as it does not relate to text that changed in the last draft. This however points out an error.

Cl 55 SC 55.12.6 P 553 L 25 # 5
McClellan, Brett Solarflare

Comment Type E Comment Status A
typo in editor's note

SuggestedRemedy
change "This chnage"
to
"This change"

Response Response Status C
ACCEPT.

Cl 55 SC 55.8.2.2 P 545 L 16 # 51
Dawe, Piers Avago

Comment Type E Comment Status R
Unreasonably small type (as D1.0 comment 186 which was misinterpreted)

SuggestedRemedy
Please change the fonts to at least 8 point, or get an 802.3an editor to do it. There's plenty of space to make the whole diagram bigger.

Response Response Status C
REJECT.

The risk of introducing an error outweighs the value of making this editorial change.

Cl 56 SC 56.1.3 P 4 L 31 # 52
Dawe, Piers Avago

Comment Type E Comment Status A
Nominal Reach

SuggestedRemedy
Nominal reach

Response Response Status C
ACCEPT.

While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

Cl 60 SC 3.2 P 130 L 35 # 6
Zimmerman, George Solarflare Communica

Comment Type ER Comment Status A
Table 60-5: (entry for Treceiver_setting)
Footnote c was deleted, but the mark referencing it was not

SuggestedRemedy
Delete footnote mark "c" next to Treceiver_setting in Table 60-5

Response Response Status W
ACCEPT.

While this comment is out of scope as it does not relate to text that changed in the last draft, it does point out an editorial error in implementing the change request and will be accepted.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 69 SC P L # 82
Ganga, Ilango Intel

Comment Type ER Comment Status A

Reviewed the document and commented on the missing changes during merge. Check and update any more changes missed out during merge of 802.3ap-2007 to 802.3ay/D1.1.

SuggestedRemedy

Response Response Status C

ACCEPT IN PRINCIPLE.

Thank you for you work in reviewing the merge.

CI 69 SC 69.1.3 P 378 L 40 # 80
Ganga, Ilango Intel

Comment Type E Comment Status A

Missing cross references (hyperlinks) for Clauses 35, 36, 45, 46, 51 etc., in this sub clause.

There are many missing cross references in other subclauses in Clause 69 that are highlighted in dark blue color (some are not highlighted in blue). These need to be added during integration of the document.

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT IN PRINCIPLE.

These are missing hyperlinks, not cross references.

CI 69 SC 69.5 P 381 L 32 # 81
Ganga, Ilango Intel

Comment Type E Comment Status A

For consistency fix capitalization in "Protocol Implementation Conformance Statement (PICS) proforma" in the title of subclause 69.5 and in the first paragraph.

This change has been implemented in 802.3ap-2007 but has been missed out during merge to 802.3ay/D1.1

SuggestedRemedy

Change capitalization in two instances in 69.5, to read as follows:

"Protocol implementation conformance statement (PICS) proforma"

Response Response Status C

ACCEPT.

This is a merge error.

CI 69B SC 69B.4.1 P 598 L 8 # 84
Ganga, Ilango Intel

Comment Type E Comment Status A

In table 69B-1 for rows 3-6 change the power of symbol instead of E-xx (refer to 802.3ap-2007 for the change)

SuggestedRemedy

Response Response Status C

ACCEPT.

This is a merge error.

CI 69B SC 69B.4.2 P 598 L 14 # 83
Ganga, Ilango Intel

Comment Type E Comment Status A

e is a constant and hence should be upright in equation 69B-6 (refer 802.3ap-2007)

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

Cl 70 SC 70.3 P 383 L 37 # 45
 Dawe, Piers Avago

Comment Type TR Comment Status A

Fix the two similar cases mentioned in D1.0 comment 132

SuggestedRemedy

1] Change 71.3 to read 'The PCS associated with this PMD is required to support the AN service interface primitive AN_LINK.indication defined in 73.9. (See 48.2.7.)' Remove associated PICS 71.10.4.1 (PICS). Similarly modify 72.3, delete 72.10.4.1.

Response Response Status C

ACCEPT.

Cl 70.10 SC 70.10.3 P 395 L 6 # 85
 Ganga, Ilango Intel

Comment Type ER Comment Status A

The following change has been missed out during merge of 802.3ap-2007 to 802.3ay/D1.1

Delete the word "interface" and change to "GMII" as per 802.3ap-2007.

Similar change applies XGMII in 71.10.3 and 72.10.3

Also add []Yes []No to the last column(s) of 70.10.3, 71.10.3 and 72.10.3.

SuggestedRemedy

Change first row of tables in 70.10.3, 71.10.3 and 72.10.3 as per corresponding rows in 802.3ap-2007.

Response Response Status C

ACCEPT.

Merge error.

Cl 71 SC 71.1 P 399 L 7 # 87
 Ganga, Ilango Intel

Comment Type T Comment Status A

Another change missed out during merge from 802.3ap-2007 to 802.3ay/D1.1.

Change second sentence of subclause 71.1 to read as follows (as per 802.3ap-2007):

"When forming a complete PHY,"

This change applies to 70.1, 71.1 and 72.1 (three instances)

SuggestedRemedy

As per comment, refer to 802.3ap-2007 70.1, 71.1 and 72.1 for fixing the sentence(s).

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #48.

Cl 71 SC 71.10.3 P 412 L 18 # 86
 Ganga, Ilango Intel

Comment Type T Comment Status A

Delete the word "Analog" from Signal Detect generation in 71.10.3

SuggestedRemedy

Change "Analog Signal Detect Generation" to read simply as "Signal Detect Generation"

Response Response Status C

ACCEPT.

Cl 71 SC 71.7 P 403 L 32 # 88
 Ganga, Ilango Intel

Comment Type T Comment Status A

In Table 71-4, the "Differential peak-to-peak output voltage (max.);" specified in this row is a range, that has a minimum of 800mV and a maximum of 1200mV. So delete "(max.);" from first column.

Similarly this change applies to Table 70-4 as well.

SuggestedRemedy

As per comment.

Response Response Status C

ACCEPT.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 72 SC 72.1 P 417 L 7 # 48
 Dawe, Piers Avago

Comment Type TR Comment Status A

This inappropriate sentence was added at the last opportunity in 802.3ap and left there to avoid a further slippage. We now have an opportunity to correct it. 'In order to form a complete PHY, a PMD shall be combined with the appropriate sublayers' attempts to impose a condition on a complete PHY - but this clause is responsible for the PMD alone. The PMD is the lowest sublayer, not responsible for anything above it. Also there is no requirement to combine, merely to connect. If it is thought necessary to define what makes up a complete PHY of any name, then it must be done somewhere else e.g. using Table 69-1

SuggestedRemedy

Change to "When {forming|part of} a complete PHY, a PMD {is|shall be} connected to the appropriate sublayers'. Same change for 71.1, 72.1. 53.1.

Response Response Status C

ACCEPT IN PRINCIPLE.

The text will be changed to read "When forming a complete PHY, a PMD shall be connected to the appropriate sublayers'.

Same change for 71.1, 72.1. 53.1.

CI 72 SC 72.10.3 P 444 L 13 # 53
 Dawe, Piers Avago

Comment Type T Comment Status R

The PMD doesn't "implement Auto-Negotiation for Backplane Ethernet": the AN sublayer does that.

SuggestedRemedy

Delete item AN, here and in 70.10.3 and 71.10.3. This item would go in a PICS table for a whole PHY, if it existed, not in the PMD PICS.

Response Response Status C

REJECT.

This comment is out of scope as it not on text that changed in the last draft and is also a restatement of a previous rejected comment.

CI 72 SC 72.10.3 P 444 L 16 # 54
 Dawe, Piers Avago

Comment Type T Comment Status R

The PMD doesn't "implement 10GBASE-R Forward Error Correction": the FEC sublayer does that.

SuggestedRemedy

Delete item FEC. This item would go in a PICS table for a whole PHY, if it existed, not in the PMD PICS.

Response Response Status C

REJECT.

This comment is out of scope as it does not relate to text that changed in the last draft. In addition this was discussed many times in IEEE P802.3ap and the decision was to leave this.

CI 72 SC 72.10.4.4 P 448 L 3 # 89
 Ganga, Ilango Intel

Comment Type E Comment Status A

The following change has been missed out during merge of 802.3ap-2007 to 802.3ay/D1.1

Change column 3 of item CF41 to read as follows:

"Meets the requirements of 72.6.10.4.2"

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT.

Merge error.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 72 SC 72.6.10.2.3.1 P 423 L 5 # 90
 Ganga, Ilango Intel

Comment Type E Comment Status A

The following change has been missed out during merge of 802.3ap-2007 to 802.3ay/D1.1

Change it's to "its" in 3 places in this paragraph (three instances on lines 5, 9 and 19 on page 423)

SuggestedRemedy

Change as per comment

Response Response Status C

ACCEPT.

Merge error.

CI 72 SC 72.6.10.2.3.3 P 423 L 30 # 93
 Ganga, Ilango Intel

Comment Type E Comment Status A

The following change has been missed out during merge of 802.3ap-2007 to 802.3ay/D1.1

The variable (k) should be in italics

Change variable k in "Coefficient (k) update" to italics. Check and update in other places.

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT.

Merge error.

CI 72 SC 72.6.10.3.2 P 428 L 6 # 91
 Ganga, Ilango Intel

Comment Type T Comment Status A

"The value of max_wait_timer shall be 500 ms ± 1%" implies that the value always shall stay constant. However this can be rephrased (similar to the phrase used for such timers in Clause 55) as follows:

The max_wait_timer shall expire 500 ms ± 1% after being started.

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT IN PRINCIPLE.

This comment is out of scope as it does not relate to text that changed in the last draft. In addition the behavior of timers is described in subclause 14.2.3.2. This subclause expects a constant value for the time and describes how a timer times.

What seems to be more of an issue is that Clause 72 does not include the usual text 'The notation used in the state diagrams follows the conventions of 21.5. State diagram timers follow the conventions of 14.2.3.2.'. In addition the notation '++' is not defined.

The text 'The notation used in the state diagrams follows the conventions of 21.5. State diagram timers follow the conventions of 14.2.3.2. The notation ++ after a counter or integer variable indicates that its value is to be incremented.' will be added to subclause 72.6.10.3 'State variables'.

CI 72 SC 72.6.4 P 419 L 39 # 92
 Ganga, Ilango Intel

Comment Type E Comment Status A

There should not be a space in between PMD_SIGNAL.indication(SIGNAL_DETECT).

SuggestedRemedy

As per comment, 802.3ap-2007.

Response Response Status C

ACCEPT.

Merge error.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 72 SC 72.7.1.11 P 438 L 4 # 94
 Ganga, Ilango Intel

Comment Type E Comment Status A

The following changes are missing during the merge of 802.3ap-2007 to 802.3ay/D1.1.

change numeral 8 to word eight as per 802.3ap-2007.

The subscripts in this clause should be upright text and add comma after v5, as per 802.3ap-2007

The symbol T is constant hence should be upright text in this subclause and in the figure as per 802.3ap-2007

Check and update other missing changes in this subclause

SuggestedRemedy

As per comment

Response Response Status C

ACCEPT.

Merge error.

As suggested this subclause as well as the entire Clause 71, 72, 73 and 74 will be compared between IEEE Std 802.3ap-2007 and the IEEE 802.3ay draft.

CI 73 SC 73.3 P 454 L 47 # 96
 Ganga, Ilango Intel

Comment Type E Comment Status A

The following change has been missed out during merge of 802.3ap-2007 to 802.3ay/D1.1

Add "(see 73.9)" reference at the end of the sentence as follows:

..PHYs through the Technology-Dependent interface (see 73.9).

Also fix the capitalization of the word "interface" for TDI in this subclause and other occurrences of TDI in 73.9.

Similarly add a reference (See 73.9) to the end of subclause 73.7.4.

SuggestedRemedy

As per comment, (in case of doubt please refer to 802.3ap-2007)

Response Response Status C

ACCEPT.

Merge error.

CI 73 SC 73.5.2 P 456 L 28 # 97
 Ganga, Ilango Intel

Comment Type E Comment Status A

deleted word "bits" from sentence as per 802.3ap-2007 as follows:

"differentiated from data transition positions by the spacing"

SuggestedRemedy

Response Response Status C

ACCEPT.

Merge error.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

Cl 73 SC 73.6 P 458 L 27 # 95
 Ganga, Ilango Intel
 Comment Type E Comment Status A
 Fix the missing cross reference (hyperlink) to 28.2.1.2.
 SuggestedRemedy
 Per comment
 Response Response Status C
 ACCEPT.
 Will add the hyperlink.

Cl 74 SC 74.11.3 P 505 L 6 # 55
 Dawe, Piers Avago
 Comment Type T Comment Status A
 The FEC layer is optional but if it's present, FEC capability is not optional.
 SuggestedRemedy
 Delete item *FEC. Change items with status FEC:M or FEC:O to M or O respectively.
 Response Response Status C
 ACCEPT.
 This comment is out of scope as it does not relate to text that changed in the last draft however the comment is correct. Implementation of FEC is optional but if it is chosen to implement it then conformance to this Clause is required. There would therefore never be a case where the support column for the item *FEC was no.

Cl 74 SC 74.11.5 P 507 L 48 # 99
 Ganga, Ilango Intel
 Comment Type E Comment Status A
 The following change has been missed out during merge of 802.3ap-2007 to 802.3ay/D1.1
 Fix typo for "possible" for item FE14.
 SuggestedRemedy
 As per comment
 Response Response Status C
 ACCEPT.
 Merge error.

Cl 74 SC 74.7.4.4 P 495 L 9 # 98
 Ganga, Ilango Intel
 Comment Type E Comment Status A
 Change "Multiplication on" to "Multiplication by"
 Rephrase the sentence as follows:
 (Multiplication by x32 is performed using shifts).
 SuggestedRemedy
 As per comment
 Response Response Status C
 ACCEPT.
 While this comment is out of scope, as it does not relate to text that changed in the last draft, the capitalization will be corrected since it is a single instance change.

Cl 99 SC P L # 22
 Grow, Bob
 Comment Type E Comment Status A
 Insufficient front matter
 Historical listing of projects still needs work ans will be provided by the WG chair in the future.
 SuggestedRemedy
 See attached file
 Response Response Status C
 ACCEPT.

IEEE 802.3ay (IEEE P802.3) D1.1 Maintenance #9 (Revision) comments

CI 99 SC P1 L 26 # 18
 Law, David 3Com

Comment Type E Comment Status A
 Change the boilerplate text to match that provide in the 2007 style manual.

SuggestedRemedy
 Change the boilerplate text to read:

This document is an unapproved draft of a proposed IEEE Standard. As such, this document is subject to change. USE AT YOUR OWN RISK! Because this is an unapproved draft, this document must not be utilized for any conformance/compliance purposes. Permission is hereby granted for IEEE Standards Committee participants to reproduce this document for purposes of international standardization consideration. Prior to adoption of this document, in whole or in part, by another standards development organization, permission must first be obtained from the IEEE Standards Activities Department. Other entities seeking permission to reproduce this document, in whole or in part, must obtain permission from the IEEE Standards Activities Department.

Response Response Status C
 ACCEPT.

CI 99 SC 99 P1 L 8 # 61
 Dawe, Piers Avago

Comment Type E Comment Status A
 Split URL

SuggestedRemedy
 Can you force it to stay on one line?

Response Response Status C
 ACCEPT.

The only URL on page 1 is on line 35 and this is split across two lines. On the assumption that this is the URL the comment relates to this will be fixed.

CI 99 SC 99 P3 L 26 # 62
 Dawe, Piers Avago

Comment Type E Comment Status A
 One in style of Shift+x, several in style of Shtf-x

SuggestedRemedy
 Change all to style of Shift-x. You've done this in 802.1AX

Response Response Status C
 ACCEPT.

CI 99 SC 99 P35 L 2 # 36
 Dawe, Piers Avago

Comment Type E Comment Status A
 Missing clause title

SuggestedRemedy
 Fix

Response Response Status C
 ACCEPT.

Clause 21 title is missing.