

P802.3ah Draft 1.0 Comments

Cl 00 SC P L # 251

Dawe, Piers

Agilent

Comment Type E Comment Status D

Ugly typeface in headings not in line with published IEEE standards

SuggestedRemedy

Instead of Helvetica Narrow (bold) use Helvetica (bold). Frame template change.

Proposed Response Response Status O

Cl 00 SC P5 L 13 # 633

Barrass, Hugh

Cisco Systems

Comment Type E Comment Status D

Spelling error: "managemen"

SuggestedRemedy

Change to "management"

Proposed Response Response Status O

Cl 00 SC 55.1.3 P58 L 34 # 675

Squire, Matt

Hatteras Networks

Comment Type E Comment Status D

The section lacks an introductory paragraph or statement and is therefore difficult to read.

SuggestedRemedy

Include an introductory statement in the section. Suggestion:

This section provides additional details on the functional requirements for OAM in Ethernet networks. Each of the objectives is clarified with a number of statements, and any additional miscellaneous clarifications are also detailed.

Proposed Response Response Status O

Cl 00 SC 55.1.4 P59 L 1 # 677

Squire, Matt

Hatteras Networks

Comment Type E Comment Status D

Lack of introductory paragraph or statment makes 55.1.4 difficult to read.

SuggestedRemedy

Add introductory statement:

This section explicitly lists certain functions that are not addressed by Ethernet OAM. These functions, though value OAM functions in networks, do not fall within the scope of 802.3.

Proposed Response Response Status O

Cl 00 SC 55.2.3.1.2 P63 L 11 # 681

Squire, Matt

Hatteras Networks

Comment Type E Comment Status D

I think RF is actually not set by management but determined by OAM and signaled to remote management

SuggestedRemedy

redefine RF to

A boolean value determined by OAM based on the link state which indicates remote fault status.

Proposed Response Response Status O

Cl 00 SC 59.10 P199 L # 625

Tatum, Jim

Honeywell

Comment Type E Comment Status D

Add "transmitter" after "optical on line 3

SuggestedRemedy

Add "transmitter" after "optical on line 3

Proposed Response Response Status O

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Cl 00 SC 59.4.1 P190 L4 # 619

Tatum, Jim

Honeywell

Comment Type E Comment Status D

ZZ not a valid reference

SuggestedRemedy

change to appropriate reference when meausement clause addeed

Proposed Response Response Status O

Cl 00 SC Figure 55-18 P79 L51 # 128

Daines, Kevin

World Wide Packets

Comment Type E Comment Status D

"null" should probably read "null + pad"

SuggestedRemedy

Add "+ pad" to "null" in Figures 55-18, 55-19, 55-20, 55-21

Proposed Response Response Status O

Cl 30 SC 30.11.1.1.3 P26 L44 # 115

Daines, Kevin

World Wide Packets

Comment Type E Comment Status D

"OAM Frames" should be changed to "OAMPDUs". See 30.7.1.1.19.

SuggestedRemedy

Change "...OAM frames..." to "OAMPDUs"

Proposed Response Response Status O

Cl 30 SC 30.2.2.1 P12 L35 # 349

Brown, Benjamin

AMCC

Comment Type E Comment Status D

Figure reference is wrong.

SuggestedRemedy

Change "Figures 0-3" to "Figures 30-3"

This appears numerous times in this clause. A blanket search for "Figures 0" should find them all.

Proposed Response Response Status O

Cl 30 SC 30.2.2.1 P12 L35 # 112

Daines, Kevin

World Wide Packets

Comment Type E Comment Status D

Figure 55-1 is incorrectly numbered.

This problem appears numerous times. For instance, pg 13 In 13, pg 13 In 40

SuggestedRemedy

Figure 55-1 should be 30-4.

Proposed Response Response Status O

Cl 30 SC 30.2.2.1 P12 L35 # 111

Daines, Kevin

World Wide Packets

Comment Type E Comment Status D

Figure 0-3 should be 30-3.

This problem appears numerous times. For instance, pg 13 In 13, pg 13 In 29

SuggestedRemedy

Figure 0-3 should be changed to 30-3.

Proposed Response Response Status O

Cl 30 SC 30.2.2.1 P13 L # 351

Brown, Benjamin

AMCC

Comment Type E Comment Status D

miss ing commas to match other descriptions

SuggestedRemedy

Line:

22: Replace "implemented oOMPMuxing" with "implemented, oOMPMuxing"

23: Replace "Otherwise if" with "Otherwise, if"

34: Replace "Otherwise if" with "Otherwise, if"

35: Replace "implemented a" with "implemented, a"

36: Replace "Otherwise if" with "Otherwise, if"

51: Replace "Otherwise if" with "Otherwise, if"

Proposed Response Response Status O

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Cl 30 SC 30.2.2.1 P13 L 20 # 350
Brown, Benjamin AMCC
Comment Type E Comment Status D
wrong tense
SuggestedRemedy
Replace "supply" with "supplied"
Proposed Response Response Status O

Cl 30 SC 30.2.2.1 P13 L 20 # 113
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
"...link partner supply through the OAM protocol." contains a grammar error.
SuggestedRemedy
Should read "...link partner supplied through the OAM protocol."
Proposed Response Response Status O

Cl 30 SC 30.2.2.1 P14 L 6 # 352
Brown, Benjamin AMCC
Comment Type E Comment Status D
missing words
SuggestedRemedy
Replace
"implemented, contained"
with
"implemented, oOMPEmulation is contained"
Proposed Response Response Status O

Cl 30 SC 30.2.3 P15 L 37 # 114
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
Figure 55-2 is incorrectly numbered.
SuggestedRemedy
Figure 55-2 should be 30-5.
Proposed Response Response Status O

Cl 30 SC 30.5.1.1.2 P21 L 26 # 583
Nguyen, Trung National Semiconduct
Comment Type E Comment Status D
Naming convention of 100Base PMDs is not consistent with those used in Clauses 60.
SuggestedRemedy
Change 100BASE-BXT to 100BASE-BX-OLT.
Change 100BASE-BXU to 100BASE-BX-ONU
Proposed Response Response Status O

Cl 45 SC 45.2.2.1 P35 L 4 # 354
Brown, Benjamin AMCC
Comment Type E Comment Status D
Wrong word in bullet c
SuggestedRemedy
Replace "market" with "marked"
Proposed Response Response Status O

Cl 45 SC 45.2.2.3 P36 L 29 # 86
Turner, Ed Lattice Semiconductor
Comment Type E Comment Status D
The IEEE style guide advises against the use of the word 'will'.
SuggestedRemedy
Delete the word 'will'. Also search and replace or modify 'will' throughout the rest of the clause.
Proposed Response Response Status O

Cl 45 SC 45.3.1.4 P38 L 47 # 346
Tom Mathey Independent
Comment Type E Comment Status D
The case where the number of errors is greater than that which can be corrected needs to be covered. For this case, the total number of bits in error is unknown.
SuggestedRemedy
Discuss.
Proposed Response Response Status O

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CI 45 SC 45.5.1.1 P L 18 # 6
Marris, Arthur Cadence Design Syste
Comment Type E Comment Status D
"discreetly" spelled wrong
SuggestedRemedy
delete word altogether or replace with "discretely"
Proposed Response Response Status O

CI 45 SC 45.5.1.5 P 49 L # 343
Simon, Scott Cisco Systems, Inc.
Comment Type E Comment Status D
Table 45-29 has a typo in the first line.
SuggestedRemedy
Please change 6.3tt.15 to 6.3t.15
Proposed Response Response Status O

CI 45 SC Table 45-2 P 34 L 41 # 68
Turner, Ed Lattice Semiconductor
Comment Type E Comment Status D
This table, and others like it throughout the clause are missing a footnote to explain the meaning of the abbreviations used in the 'R/W' column.
SuggestedRemedy
Add footnote to this table, and all others throughout the clause, that includes explanations of the entries in the 'R/W' column.
For example, this table just needs 'R/W = Read/Write'. Other tables may require 'R/W = Read/Write, RO = Read Only'.
Proposed Response Response Status O

CI 45 SC Table 45-29 P 48 L 15 # 70
Turner, Ed Lattice Semiconductor
Comment Type E Comment Status D
Two 't's in first column.
SuggestedRemedy
Change '6.3tt.15' to '6.3t.15'.
Proposed Response Response Status O

CI 45 SC Table 45-4 P 35 L 44 # 355
Brown, Benjamin AMCC
Comment Type E Comment Status D
missing period
SuggestedRemedy
Replace "3.4715:0" with "3.47.15:0"
Proposed Response Response Status O

CI 54 SC 54 P 51 L 13 # 285
Dawe, Piers Agilent
Comment Type E Comment Status D
OLT and ONU are bad nomenclature.
They are not true opposites.
One cannot extract any meaning from them, apart from that something is optical: what is the difference between a "Line Termination" and a "Network Unit"? How can one tell which is the centre of the star and which is used multiple times at its points?

SuggestedRemedy
What does the cable TV industry use?
Proposed Response Response Status O

CI 54 SC 54.1 P 51 L 37 # 135
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
Based on the "Registered" symbol on page 54, line 46 (and page 55, line 38), should the "IEEE 802.3" found on page 51, line 37 also have one?

SuggestedRemedy
Add "Registered" symbol after "IEEE 802.3"
Proposed Response Response Status O

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CI 54 SC 54.1 P51 L 39 # 705
Jonathan Thatcher World Wide Packets

Comment Type E Comment Status D

There are multiple places throughout the entire document where "point to point" and "point to multi point" are handled differently.

SuggestedRemedy

Recommend global usage of "point-to-point" and "point-to-multi-point"

Proposed Response Response Status O

CI 54 SC 54.1 P52 L 36 # 531
Richard Brand Nortel Networks

Comment Type E Comment Status D

Delete the subclause, "as was originally intended in the earliest editions of this standard."
Place the period after frames

SuggestedRemedy

Although this statement is probably true, it is not our responsibility to interpret the intent of the original members.

Proposed Response Response Status O

CI 54 SC 54.1.1 P52 L 42 # 356
Brown, Benjamin AMCC

Comment Type E Comment Status D

wrong word

SuggestedRemedy

replace "with the MAC Control" with "within the MAC Control"

Proposed Response Response Status O

CI 54 SC 54.1.1 P52 L 42 # 7
Marris, Arthur Cadence Design Syste

Comment Type E Comment Status D

Should itn't be "within" rather than "with"

SuggestedRemedy

Replace "with" with "within"

Proposed Response Response Status O

CI 54 SC 54.1.4 P53 L 4753 # 357
Brown, Benjamin AMCC

Comment Type E Comment Status D

inconsistency between
"OLT long wavelength laser" and
"long wavelength ONU laser"

This is on both the first and second paragraphs in 54.1.4

SuggestedRemedy

Reconcile to use one or the other, I don't care which.

Proposed Response Response Status O

CI 54 SC 54.1.5 P55 L 7 # 703
Jonathan Thatcher World Wide Packets

Comment Type E Comment Status D

Need to be using same naming convention throughout the document (compare Table 54-1) to p 21.
10PASS-TA vs 10PASST
1000BASE-BXT vs 1000BASE-BX-OLT
etc, etc.

SuggestedRemedy

Rectify

Proposed Response Response Status O

CI 55 SC 55.1.1 P58 L 20 # 358
Brown, Benjamin AMCC

Comment Type E Comment Status D

missing comma

SuggestedRemedy

replace "functions which" with "functions, which"

Proposed Response Response Status O

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Cl 55 **SC 55.1.3** **P58** **L 37** # **714**
Jonathan Thatcher World Wide Packets

Comment Type **E** **Comment Status** **D**

Line 37: 55.1.3.a.2 "should" implies that this is not required. It is. There should be a shall statement. It may or may not be here. Don't want redundant shalls.

Line 49: 55.1.3.d.1 similarly, "must" has similar problem.

SuggestedRemedy

Remove the words "should" and "must."

Proposed Response **Response Status** **O**

Cl 55 **SC 55.1.3** **P58** **L 37** # **676**
Squire, Matt Hatteras Networks

Comment Type **E** **Comment Status** **D**

I don't think the clause numbers listed match the actual clauses any more. E.g. 61 is the aggregation section, not one of the copper access PHYs.

SuggestedRemedy

Match to current document structure.

Proposed Response **Response Status** **O**

Cl 55 **SC 55.1.3** **P58** **L 40** # **533**
Richard Brand Nortel Networks

Comment Type **E** **Comment Status** **D**

"operating"

SuggestedRemedy

Should read operation

Proposed Response **Response Status** **O**

Cl 55 **SC 55.1.3** **P58** **L 40** # **359**
Brown, Benjamin AMCC

Comment Type **E** **Comment Status** **D**

wrong word

SuggestedRemedy

replace "operating" with "operation"

Proposed Response **Response Status** **O**

Cl 55 **SC 55.1.3** **P58** **L 40** # **15**
MARTIN, DAVID NORTEL NETWORKS

Comment Type **E** **Comment Status** **D**

Typo

SuggestedRemedy

Change "unidirectional operating" => "unidirectional operation"

Proposed Response **Response Status** **O**

Cl 55 **SC 55.1.4** **P59** **L 5** # **360**
Brown, Benjamin AMCC

Comment Type **E** **Comment Status** **D**

misspelling

SuggestedRemedy

replace "communcations" with "communications"

Proposed Response **Response Status** **O**

Cl 55 **SC 55.1.4** **P59** **L 6** # **706**
Jonathan Thatcher World Wide Packets

Comment Type **E** **Comment Status** **D**

Here, it is indicated that "negotiation" is a non-objective. In some notes in clause, there are references to "negotiation."

SuggestedRemedy

Global search and replace negotiation with "capability discovery" except in non-objectives.

Proposed Response **Response Status** **O**

Cl 55 **SC 55.1.6** **P61** **L 1** # **679**
Squire, Matt Hatteras Networks

Comment Type **E** **Comment Status** **D**

Since we talk about buffering/discarding packets when in loopback, and we're showing packet flows via the arrows in the diagram, we should add arrows at the top showing data from the MAC client getting buffered or discarded.

SuggestedRemedy

Proposed Response **Response Status** **O**

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Cl 55 **SC 55.1.6.1** **P80** **L 32** **# 678**
 Squire, Matt Hatteras Networks

Comment Type **E** *Comment Status* **D**

The first sentence "OAM is intended for full-duplex 802.13 physical layer devices" doesn't seem right, as the packet-based OAM can operate in half-duplex mode. Also, the clause #s are wrong.

SuggestedRemedy

New first sentence: OAM is designed to be implementable on any 802.3 physical layer device.

Fix clause #s to match current spec.

Proposed Response *Response Status* **O**

Cl 55 **SC 55.1.6.4** **P60** **L 49** **# 122**
 Daines, Kevin World Wide Packets

Comment Type **E** *Comment Status* **D**

Remote and far-end are used interchangeably. Isn't remote more common?

SuggestedRemedy

Consider changing "far-end" to remote.

Proposed Response *Response Status* **O**

Cl 55 **SC 55.1.6.4** **P60** **L 52** **# 16**
 MARTIN, DAVID NORTEL NETWORKS

Comment Type **E** *Comment Status* **D**

Wording improvement

SuggestedRemedy

Change "existing protocols and implementations" => "existing protocols. Implementations"

Proposed Response *Response Status* **O**

Cl 55 **SC 55.1.7** **P61** **L 28** **# 534**
 Richard Brand Nortel Networks

Comment Type **E** *Comment Status* **D**

"precedence"

SuggestedRemedy

Should be spelled precedence

Proposed Response *Response Status* **O**

Cl 55 **SC 55.1.7** **P61** **L 28** **# 17**
 MARTIN, DAVID NORTEL NETWORKS

Comment Type **E** *Comment Status* **D**

Typo

SuggestedRemedy

Change "precedence" => "precedence"

Proposed Response *Response Status* **O**

Cl 55 **SC 55.2** **P61** **L 37** **# 110**
 Daines, Kevin World Wide Packets

Comment Type **E** *Comment Status* **D**

"...and pass each..." has a grammar error.

SuggestedRemedy

Change to "...and passes each...".

Proposed Response *Response Status* **O**

Cl 55 **SC 55.2.3** **P62** **L 42** **# 535**
 Richard Brand Nortel Networks

Comment Type **E** *Comment Status* **D**

The word "Figure" for 55.2.3.1 is incorrect

SuggestedRemedy

Should read sub clause 55.2.3.1

Proposed Response *Response Status* **O**

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CI 55 SC 55.2.3 P62 L42 # 18
MARTIN, DAVID NORTEL NETWORKS

Comment Type E Comment Status D
Typo

SuggestedRemedy

Change "in Figure 55.2.3.1" => "in sub-clause 55.2.3.1"

Proposed Response Response Status O

CI 55 SC 55.2.3 P64 L28 # 536
Richard Brand Nortel Networks

Comment Type E Comment Status D
The word "Figure" for 55.2.4.1 is incorrect

SuggestedRemedy

Should read subclause 55.2.4.1

Proposed Response Response Status O

CI 55 SC 55.2.3.1.2 P63 L21 # 682
Squire, Matt Hatteras Networks

Comment Type E Comment Status D
DA, SA, m_sdu, status, length, type, etc. aren't used in state diagram. This is true in all state machine sections.

SuggestedRemedy

Eliminate unused variables throughout state machine sections.

Proposed Response Response Status O

CI 55 SC 55.2.3.1.2 P63 L51 # 683
Squire, Matt Hatteras Networks

Comment Type E Comment Status D
Should MADl be MADR as in the diagram?

SuggestedRemedy

Proposed Response Response Status O

CI 55 SC 55.2.3.1.3 P63 L4950 # 362
Brown, Benjamin AMCC

Comment Type E Comment Status D
Wrong message

SuggestedRemedy

Replace "MADl" with "MADR"

Replace "MA_DATA.indication(DA,SA,m_sdu_status)" with
"MA_DATA.request(DA,m_sdu,service_class)"

Proposed Response Response Status O

CI 55 SC 55.2.3.1.3 P63 L50 # 150
Aoki, Yasuhide NTT

Comment Type E Comment Status D
"MADl"and"Alias for MA_DATA.indication"should be changed into "MADR"and"Alias for
MA_DATA.request".

SuggestedRemedy

Proposed Response Response Status O

CI 55 SC 55.2.4 P64 L28 # 19
MARTIN, DAVID NORTEL NETWORKS

Comment Type E Comment Status D
Typo

SuggestedRemedy

Change "in Figure 55.2.4.1" => "in sub-clause 55.2.4.1"

Proposed Response Response Status O

CI 55 SC 55.3.1 P67 L3753 # 366
Brown, Benjamin AMCC

Comment Type E Comment Status D
The opening paragraph says effectively the same thing as the bullets

SuggestedRemedy

Reword this section to use either the paragraph form or the bullets but don't state the rules twice.

Proposed Response Response Status O

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CI 55 SC 55.3.2 P L 27 # 8
Marris, Arthur Cadence Design Syste
Comment Type E Comment Status D
It would be nice to have the destination address filled in
SuggestedRemedy
In figure 55-7 put
"Destination Address = 01-80-C2-00-00-02"
Proposed Response Response Status O

CI 55 SC 55.3.2.1 P 69 L 12 # 21
MARTIN, DAVID NORTEL NETWORKS
Comment Type E Comment Status D
Clarification
SuggestedRemedy
Change "indicates an alarm condition has occurred" => "indicates a local alarm condition has occurred"
Proposed Response Response Status O

CI 55 SC 55.3.2.1 P 69 L 12 # 541
Richard Brand Nortel Networks
Comment Type E Comment Status D
Add a word
SuggestedRemedy
To read: "indicates a local alarm condition has occurred."
Proposed Response Response Status O

CI 55 SC 55.3.2.1 P 69 L 9 # 20
MARTIN, DAVID NORTEL NETWORKS
Comment Type E Comment Status D
Clarification
SuggestedRemedy
Change "indicates an unrecoverable failure condition" => "indicates an unrecoverable local failure condition"
Proposed Response Response Status O

CI 55 SC 55.3.2.1 P 69 L 9 # 539
Richard Brand Nortel Networks
Comment Type E Comment Status D
Add word "local"
SuggestedRemedy
To read "indicates an unrecoverable local failure condition"
Proposed Response Response Status O

CI 55 SC 55.3.3.1 P 70 L 11 # 421
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
Usage of "? OAMPDU", "OAM ? PDU", "? PDU". Not consistent through clause.
SuggestedRemedy
Make consistent. Consider using "? OAMPDU" throughout.
Proposed Response Response Status O

CI 55 SC 55.3.3.1 P 71 L 18 # 712
Jonathan Thatcher World Wide Packets
Comment Type E Comment Status D
Local_placeholder makes no sense.
SuggestedRemedy
Remove, describe, or add explanation (as editors note?)
Proposed Response Response Status O

CI 55 SC 55.3.3.1 P 71 L 25 # 711
Jonathan Thatcher World Wide Packets
Comment Type E Comment Status D
Use of term "Far_End" not consistent with other usage within document.
SuggestedRemedy
Global replacement of "Far_End" with "Remote"
Proposed Response Response Status O

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Cl 55 **SC 55.3.3.1** **P71** **L 45** # **710**
Jonathan Thatcher World Wide Packets

Comment Type **E** **Comment Status** **D**

Not clear what the purpose of the Far End TLV is.

SuggestedRemedy

Add brief description in 55.3.3.1 for the intent/purpose of the two TLV types

Proposed Response **Response Status** **O**

Cl 55 **SC 55.3.3.1** **P71-73** **L Figure 55-** # **1**
Seyoun LIM SAMSUNG EIECTRO

Comment Type **E** **Comment Status** **D**

In the figure 55-9, OAM status PDU data field is defined below.
Local_State is 2 octets, Local_OAM_Configuration is 2 octets,
Local_OAMPUD_Configuration, and Local_Loopback_Configuration is 2 octets.
However these fields are described differently.
these field are described below.
Local_state is 1 octet, Local_OAM_Configuration is 1 octet, Local_OAMPDU_Configuration
is 4 octets, and Local_Loopback_Configuration is 1 octet.
compare the list, c),d),e) and f) with Figure 55-9.

SuggestedRemedy

I think the figure should be corrected as these fields are described at c),d),e) and f).
the corrected is below.

Local_State : 2 octets -> 1 octet
Local_OAM_Configuration : 2 octets -> 1 octet
Local_OAMPDU_Configuration : 2 octets -> 4 octets
Local_Loopback_Configuration : 2 octets -> 1 octets

Proposed Response **Response Status** **O**

Cl 55 **SC 55.3.3.1** **P72** **L 28** # **151**
Aoki, Yasuhide NTT

Comment Type **E** **Comment Status** **D**

"This field is two octets in length and shall be as shown in Figure 55-12." should be changed into "four octets".

SuggestedRemedy

Proposed Response **Response Status** **O**

Cl 55 **SC 55.3.3.1** **P72** **L 49** # **372**
Brown, Benjamin AMCC

Comment Type **E** **Comment Status** **D**

Bullet numbering is wrong

SuggestedRemedy

Fix bullet numbering:

- 1)
- i)
- ii)
- 3)
- 4)

Proposed Response **Response Status** **O**

Cl 55 **SC 55.3.3.1** **P72** **L 51** # **373**
Brown, Benjamin AMCC

Comment Type **E** **Comment Status** **D**

2 periods

SuggestedRemedy

remove one of them

Proposed Response **Response Status** **O**

Cl 55 **SC 55.3.3.1** **P72** **L 51** # **95**
Turner, Ed Lattice Semiconductor

Comment Type **E** **Comment Status** **D**

Typo. Two full-stops after 0x5.

SuggestedRemedy

Delete one of the full-stops.

Proposed Response **Response Status** **O**

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Cl 55 **SC 55.3.3.1** **P73** **L 50** # **376**
 Brown, Benjamin AMCC
Comment Type **E** *Comment Status* **D**
 bad numbers
SuggestedRemedy
 replace "20 (0x14)" with "22 (0x16)"
Proposed Response *Response Status* **O**

Cl 55 **SC 55.3.3.1** **P73** **L 78** # **374**
 Brown, Benjamin AMCC
Comment Type **E** *Comment Status* **D**
 Fix the wording
SuggestedRemedy
 Replace: "The Configuration field" with "This field"
 Replace "operation of OAM." with "operation of OAM loopback."
 replace "The Configuration field" with "The Local_Loopback_Configuration field"
Proposed Response *Response Status* **O**

Cl 55 **SC 55.3.3.3** **P74** **L 28** # **22**
 MARTIN, DAVID NORTEL NETWORKS
Comment Type **E** *Comment Status* **D**
 Typo
SuggestedRemedy
 Change "in 55.3.3.4" => "in 55.3.4"
Proposed Response *Response Status* **O**

Cl 55 **SC 55.3.3.3** **P74** **L 28** # **545**
 Richard Brand Nortel Networks
Comment Type **E** *Comment Status* **D**
 incorrect reference
SuggestedRemedy
 Should read "in 55.3.4"
Proposed Response *Response Status* **O**

Cl 55 **SC 55.3.3.4** **P75** **L 310** # **380**
 Brown, Benjamin AMCC
Comment Type **E** *Comment Status* **D**
 Responses to some of the Editor's notes
SuggestedRemedy
 Question 1:
 Use an Event Notification PDU anytime any of the flag fields change state, including entering and leaving loopback mode

Question 2:
 When there's a conflict, the OLT (active device) always wins and the ONU (passive device) always loses. If both devices are active, as they may be when an installer is at the customer premise and needs to perform some diagnostics back to the OLT, then the OLT still wins.

Another option is that "management knows all" and it just won't happen (i.e., ignore it!)

Question 3:
 OAMPDUs are never looped back. If the active device has set the passive device in loopback and the active device detects an OAMPDU from the passive device, it knows it originated at the passive device and the active device should respond to it as it would react to an OAMPDU any other time.

Question 4:
 Again, use Event Notification to report that you're no longer in loopback mode.

Proposed Response *Response Status* **O**

Cl 55 **SC 55.3.3.5** **P75** **L 15** # **127**
 Daines, Kevin World Wide Packets
Comment Type **E** *Comment Status* **D**
 "Generate Ping" should be "Ping Request"
SuggestedRemedy
 Change "Generate Ping" to "Ping Request"
Proposed Response *Response Status* **O**

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CI 55 SC 55.3.3.5 P75 L15 # 152
Aoki, Yasuhide NTT
Comment Type E Comment Status D
"A device must be in passive mode to transmit Ping Requests."should be changed into"active mode".
SuggestedRemedy
Proposed Response Response Status O

CI 55 SC 55.3.3.5 P75 L16 # 381
Brown, Benjamin AMCC
Comment Type E Comment Status D
wrong word - I'm going to assume typo rather than actual technical mistake
SuggestedRemedy
replace "passive" with "active"
Proposed Response Response Status O

CI 55 SC 55.3.4 P75 L51 # 141
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
Minimum Frame Periodicity is incorrect. Should read Minimum Frame Rate.
SuggestedRemedy
Change "Periodicity" to "Rate".
Proposed Response Response Status O

CI 55 SC 55.3.5.1 P77 L1 # 553
Richard Brand Nortel Networks
Comment Type E Comment Status D
"Variable" misspelled
SuggestedRemedy
Proposed Response Response Status O

CI 55 SC 55.3.5.1 P77 L1 # 23
MARTIN, DAVID NORTEL NETWORKS
Comment Type E Comment Status D
Typo
SuggestedRemedy
Change "The Varaible Branch field" => "The Variable Branch field"
Proposed Response Response Status O

CI 55 SC 55.3.5.1 P77 L1 # 130
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
"Branch" and "Leaf" definitions could be clearer.
SuggestedRemedy
Better explain branches and leaves.
Proposed Response Response Status O

CI 55 SC 55.3.5.1 P77 L6 # 24
MARTIN, DAVID NORTEL NETWORKS
Comment Type E Comment Status D
Redundant sentence
SuggestedRemedy
Delete "Examples of Variable Descriptors are shown in Table 55-3." since a similar yet more accurate sentence is below Fig.55-16 in line 17.
Proposed Response Response Status O

CI 55 SC 55.3.5.1 P77 L6 # 554
Richard Brand Nortel Networks
Comment Type E Comment Status D
Delete text "Examples of Variable Descriptors are shown in Table 55-3"
SuggestedRemedy
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 55 SC 55.3.5.2 P77 L 27 # 139
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
Typo. "Variable Length" should read "Variable Leaf"
SuggestedRemedy
Change "Length" to "Leaf"
Proposed Response Response Status O

CI 55 SC 55.3.5.2 P77 L 28 # 153
Aoki, Yasuhide NTT
Comment Type E Comment Status D
"The variable Length field is derived from the registration arcs in Annex 30A.CROSS REF."should be changed into "The variable Leaf field".
SuggestedRemedy
Proposed Response Response Status O

CI 55 SC 55.3.6.1 P78 L 30 # 25
MARTIN, DAVID NORTEL NETWORKS
Comment Type E Comment Status D
Pagination
SuggestedRemedy
Add required page break to keep Table 55-3 intact with the remainder on page 79.
Proposed Response Response Status O

CI 55 SC 55.3.6.1 P78 L Table 55-3 # 555
Richard Brand Nortel Networks
Comment Type E Comment Status D
Table split
SuggestedRemedy
Proposed Response Response Status O

CI 55 SC 55.3.6.2 P79 L 27 # 129
Daines, Kevin World Wide Packets
Comment Type E Comment Status D
References to the registration arcs within Annex 30A can be provided for clarity.
SuggestedRemedy
Add references to the examples provided.
Proposed Response Response Status O

CI 55 SC 55.3.6.3 P80 L 4 # 72
Turner, Ed Lattice Semiconductor
Comment Type E Comment Status D
IEEE style guide requires that numbers do not have commas.
SuggestedRemedy
Change '19,088,743' to '19 088 743'.
Proposed Response Response Status O

CI 55 SC Table55-2 P78 L 18 # 154
Aoki, Yasuhide NTT
Comment Type E Comment Status D
"0x07-3F" should be changed into "0x07-7F".
SuggestedRemedy
Proposed Response Response Status O

CI 56 SC P L # 529
McCammon, Kent SBC Technology Reso
Comment Type E Comment Status D
For P2MP, lack of downstream encryption specification is a concern for use in public switched networks due to a threat from unauthorized user gaining access to traffic to other users.
SuggestedRemedy
Develop a specification for downstream specification of the payload for only P2MP within 802.3
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 56 SC P87 L34 # 4
Jaeyeon Song Samsung Electronics

Comment Type E Comment Status D

The Clause says, " All messages passed between OLTs and ONUs contain timestamps."

SuggestedRemedy

The Clause should be changed as following, " All MPCP messages passed between OLTs and ONUs contain timestamps."

Proposed Response Response Status O

CI 56 SC 1.2 P89 L31 # 720
Sala, Dolors Broadcom

Comment Type E Comment Status D

this line defines the protocol as a particular implementation of MAC control. I think this is not a good characterization of what this clause should do. However, I feel that this represents well what it currently contains. In my opinion the MPCP description should focus much more on the message exchanging than the pursing of frames.

I would give specific TR comments where I think it is too specified. In here I would like to suggest some editing comments on how to specify MPCP.

I would suggest

SuggestedRemedy

A possible structure could be to follow the MAC specification this would be:
1.- header formats (specifying the MAC control frames of new messages)
2.- Functional operation

This should be a general description of message exchange and protocol operation. This part is completely missing and some of the details are difficult to follow without it. Through this process the several new MAC control functions should be introduced. These are: 1) gating (including laser control) 2) timestamping; 3) discovery 4) reporting. All the other functions are just passing through information. So they only need to be described functionally (message handshake) I believe.

3.- Procedural model of the new MAC control functions

Following current MAC control specification this specification can be different appendixes of clause 31. I think the first two functions above fit very well as appendixes of clause 31. The reporting has two functions the request and ranging. The ranging part will be described in the timestamp mechanism. And the request part is just functional (message exchange). No need to put it in appendix 31. The discovery contains ranging, contention resolution and registration. The registration is functional but the resolution is not. If there is a way to divide the specification it would be useful. The contention resolution should be in appendix 31 and the registration just in described in the functional.

Proposed Response Response Status O

CI 56 SC 2.4.1.4 P98 L # 726
Sala, Dolors Broadcom

Comment Type E Comment Status D

section 2.4.1.4. why is the number of OMP frames measured? is it for synchronization? if so you may want to define it differently and also the OLT does not have this restriction, does it?

section 2.5.1.2 p. 102, what is the time_quantum unit? is it defined somewhere?

section 2.7: I would move this description as the first one instead of the multiplexers specification.

p. 118 line 42, MPCPDUs are "MAC control" frames and hence as such they are not tagged frames. If you say they are basic frames they should be able to be tagged, or not prevented to.

SuggestedRemedy

Proposed Response Response Status O

CI 56 SC 56.1.2 P89 L38 # 702
Jonathan Thatcher World Wide Packets

Comment Type E Comment Status D

Sentence "Should there be a discrepancy..." is virtually identical to sentence in 56.1.4 line 49.

SuggestedRemedy

Remove redundancy

Proposed Response Response Status O

CI 56 SC 56.2.1 P91 L53 # 73
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

Typo.

SuggestedRemedy

Change 'employees' to 'employs'.

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 56 SC 56.2.1 P92 L 14 # 74
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

Typo.

SuggestedRemedy

Change 'assymetrical' to 'asymmetrical'.

Proposed Response Response Status O

CI 56 SC 56.2.2 P92 L 29 # 526
Bemmel, Vincent Alloptic

Comment Type E Comment Status D

"lasing" is a typo

SuggestedRemedy

should be "laser"

Proposed Response Response Status O

CI 56 SC 56.2.3.1.2 P93 L 43 # 191
OGURA, Yasuo NTT

Comment Type E Comment Status D

There is a "the state of the Grant Processing sublayer" .

SuggestedRemedy

I think of that there should be a " the state of the Gate Processing sublayer"

Proposed Response Response Status O

CI 56 SC 56.2.3.1.5 P94 L 34 - 40 # 163
Jin Kim Samsung

Comment Type E Comment Status D

According to the Clause 2, MA_Control primitive is defined as follow. (pg 36, 37)

MA_CONTROL.request (destination_address, opcode, request_operand_list)

MA_CONTROL.indication (opcode,indication_operand_list)

However, Clasue 56 define MA_Control differently as follow.

MA_CONTROL.request(DA, SA, m_sdu)

MA_CONTROL.indication(DA, SA, m_sdu)

SuggestedRemedy

The Clause 56 MA_Control primitive must be correctly defined as Clause 2.

Proposed Response Response Status O

CI 56 SC 56.2.4 P96 L 40 # 75
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

I think that what you require here is "its" meaning "belonging to".

SuggestedRemedy

Change "it's" to "its".

Also apply to :

P101, line 29; P102, line 6; P104, line 3; P104, line 10; P106, line 13; P111, line 9; P115, line 20;

Proposed Response Response Status O

CI 56 SC 56.2.4.1.1 P97 L # 659
Diab, Wael William Cisco Systems

Comment Type E Comment Status D

convention not stated

Convention forward referenced to clause 57

SuggestedRemedy

Restate convention in Clause 56

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 56 **SC 56.2.4.1.6** **Pfigure 56-8** **L** **# 0**
 Jaeyeon Song Samsung Electronics

Comment Type E **Comment Status D**

-1. The draft represents MA_CONTROL.indication(DA, SA, m_sdu) format.

2. In the state PARSE INDICATION, timestamp = m_sdu[0:3], subtype=m_sdu[4], m_sdu=m_sdu[5:50].

Figure says a 'subtype' is Opcode. If it is true, timestamp is in front of Opcode. But, timestamp's location is after Opcode in other part of draft.

SuggestedRemedy

1. However, if following the 802.3 standard, it should be changed to MA_CONTROL.indication(opcode, operand_list).

2. According the number 1 comment, it should be changed as following:

subtype=operand_list[0:1]
 timestamp=operand_list[2:5]
 operand_list=operand_list[6:50]

Proposed Response **Response Status O**

Cl 56 **SC 56.2.5.1.1** **P102** **L** **# 660**
 Diab, Wael William Cisco Systems

Comment Type E **Comment Status D**

convention not stated

Convention forward referenced to clause 57

SuggestedRemedy

Restate convention in Clause 56

Proposed Response **Response Status O**

Cl 56 **SC 56.2.5.1.1** **P102** **L 1219** **# 178**
 Bharati, Barnali Wipro Technologies

Comment Type E **Comment Status D**

The later part of explanations for constants 'max_register_wait' and 'max_defferral' are same.

SuggestedRemedy

'max_defferral' needs to change.

Proposed Response **Response Status O**

Cl 56 **SC 56.2.5.1.2** **P103** **L** **# 661**
 Diab, Wael William Cisco Systems

Comment Type E **Comment Status D**

ID definition

Not clear what ID array is from the text

SuggestedRemedy

Pls. provide a definition

Proposed Response **Response Status O**

Cl 56 **SC 56.2.5.1.3** **P103** **L 43** **# 76**
 Turner, Ed Lattice Semiconductor

Comment Type E **Comment Status D**

Typo.

SuggestedRemedy

Change 'uppon' to 'upon'.

Also apply to : P103, line 47; P103, line 53; P104, line 3; P112, line 13; P118, line 29; P118, line 33;

Proposed Response **Response Status O**

Cl 56 **SC 56.2.5.1.5** **P105** **L 36** **# 193**
 OGURA, Yasuo NTT

Comment Type E **Comment Status D**

There is no discription about "MA_Control.request(grant)".

SuggestedRemedy

Proposed Response **Response Status O**

Cl 56 **SC 56.2.7.1.2** **P115** **L 3846** **# 189**
 Bharati, Barnali Wipro Technologies

Comment Type E **Comment Status D**

Same explanation for 'laser_on_time', IDLE_time and laser_off_time (page 116).

SuggestedRemedy

Proposed Response **Response Status O**

P802.3ah Draft 1.0 Comments

Cl 56 SC 56.2.7.1.2 P116 L2 # 194
 OGURA, Yasuo NTT
 Comment Type E Comment Status D
 About "laser_off_time", there is the same description of "laser_on_time".
 SuggestedRemedy
 This Description should be started with "This variable holds the time required to terminate the laser."
 Proposed Response Response Status O

Cl 56 SC 56.2.7.1.4 P116 L42 # 77
 Turner, Ed Lattice Semiconductor
 Comment Type E Comment Status D
 Typo.
 SuggestedRemedy
 Change 'signaling' to 'signalling'.
 Also in line 48.
 Proposed Response Response Status O

Cl 56 SC 56.3.2 P118 L51 # 671
 Diab, Wael William Cisco Systems
 Comment Type E Comment Status D
 Reference Table 56-1— in the opcode definition under d) Opcode.
 SuggestedRemedy
 and defined in Table 56-1:
 Proposed Response Response Status O

Cl 56 SC 56.3.2.d P18 L51 # 696
 Jonathan Thatcher World Wide Packets
 Comment Type E Comment Status D
 Missing reference to Table 56-1.
 SuggestedRemedy
 Add reference.
 Proposed Response Response Status O

Cl 56 SC 56.3.3.1 P120 L35 # 197
 OGURA, Yasuo NTT
 Comment Type E Comment Status D
 In the description "e)", there is a "IDLE sequence number".
 SuggestedRemedy
 I think of that it should be a "IDLE sequence counter".
 Proposed Response Response Status O

Cl 56 SC 56.3.5.1 P124 L22 # 78
 Turner, Ed Lattice Semiconductor
 Comment Type E Comment Status D
 Style.
 SuggestedRemedy
 Change 'nano second' to 'ns' as per IEEE style guide.
 Also apply to line 24.
 Proposed Response Response Status O

Cl 56 SC 56.3.5.1 P124 L23 # 198
 OGURA, Yasuo NTT
 Comment Type E Comment Status D
 In the description "e)turn off time", the is the same description of "d)turn on time".
 SuggestedRemedy
 I think of that it should be a "This is an unsigned 32 bit value signifying the time required by the ONU to turn off laser after transmitting valid bits."
 Proposed Response Response Status O

Cl 56 SC Figure P95 L1 # 513
 Frazier, Howard Dominet Systems
 Comment Type E Comment Status D
 All figures must be drawn in framemaker
 SuggestedRemedy
 Redraw all figures in framemaker
 Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 56 SC Figure P95 L1 # 514
Frazier, Howard Dominet Systems
Comment Type E Comment Status D
State machine drawings must follow the conventions described in 21.5
SuggestedRemedy
State transition arrows always leave the bottom and enter the top of the states.
Proposed Response Response Status O

Cl 56 SC Figure 56.2.6.5.1.6 P108 L # 662
Diab, Wael William Cisco Systems
Comment Type E Comment Status D
own_id definition
This is obvious, but you may want to define own_id before the diagram. Referenced in state SEND_REGISTER_WINDOW
SuggestedRemedy
Pls. provide a definition
Proposed Response Response Status O

Cl 56 SC Figure 56.2.5.1.6 P108 L 30 # 663
Diab, Wael William Cisco Systems
Comment Type E Comment Status D
(destroy_flag) is mis-spelled in CHECK DESTRUCTOR state
SuggestedRemedy
spell as (destroy_flag)
Proposed Response Response Status O

Cl 56 SC Figure 56-11 P108 L 44 # 179
Bharati, Barnali Wipro Technologies
Comment Type E Comment Status D
'wait_for_register_ack' is missing from the constants list (56.2.5.1.1)
SuggestedRemedy
This constant is used for setting the ONU_timer[]. It represents the period used for waiting for an acknowledgement from ONU to a REGISTER MPCPDU.
Proposed Response Response Status O

Cl 56 SC Figure 56-13 P110 L # 667
Diab, Wael William Cisco Systems
Comment Type E Comment Status D
ACK state in Figure 56- 13— Discovery Processing Slave State Diagram 2 is cutoff on PDF
SuggestedRemedy
fix formatting of page
Proposed Response Response Status O

Cl 56 SC Figure 56-6 P96 L # 658
Diab, Wael William Cisco Systems
Comment Type E Comment Status D
Transmit exit condition to Send Data Frame could be clarified
SuggestedRemedy
Condition reads:
MA_DATA.request and !MA_CONTROL.request and registered == true
Rewrite to:
!MA_CONTROL.request and MA_DATA.request and registered == true
MA_CONTROL condition upfront makes it easier to read
Proposed Response Response Status O

Cl 56 SC Figure 56-6 P96 L 14 # 176
Bharati, Barnali Wipro Technologies
Comment Type E Comment Status D
Variable 'TXAllowed' used in this state machine is not specified in the variables list 56.2.3.1.2.
SuggestedRemedy
Proposed Response Response Status O

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Cl 56 SC Figure 56-8 P100 L # 164
Jin Kim Samsung

Comment Type E Comment Status D

In the middle of figure 56-8, there is 'PARSE INDICATION' block.
In this block, timestamp and subtype is defined as follow.
timestamp = m_sdu[0:3]
subtype = m_sdu[4]

According to Figure 56-18, timestamp is located below opcode.
Therefore, their orders in figure 56-8 should be changed.

SuggestedRemedy

subtype = m_sdu[0]
timestamp = m_sdu[1:4]

Proposed Response Response Status O

Cl 56 SC Figure56-10 P101 L 50 # 192
OGURA, Yasuo NTT

Comment Type E Comment Status D

There is an arrow which name is "Gate.request(grant)".

SuggestedRemedy

I think of that this arrow is "MA_Control.request(gate)" and the direction of arrow should be inverse.

Proposed Response Response Status O

Cl 56 SC Figure56-17 P118 L 31 # 196
OGURA, Yasuo NTT

Comment Type E Comment Status D

Inside of the state:"PROGRAM", there is a variable:"if request_report".

SuggestedRemedy

I think of that it should be a "if force_report".

Proposed Response Response Status O

Cl 56 SC Figure56-17 P118 L 8 # 195
OGURA, Yasuo NTT

Comment Type E Comment Status D

Inside of the state:"START_TX", there is a "GRANT.indication(start_grant, effective_length)".

SuggestedRemedy

I think of that it should be a "MA_CONTROL.indication(startt_grant)".

Proposed Response Response Status O

Cl 56 SC Table 56-6 P128 L 5 # 79
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

Typos.

SuggestedRemedy

Change 'Succes' to 'Success' and 'successfully' to 'successfully'.

Proposed Response Response Status O

Cl 57 SC "Figure56-2" P141 L # 46
Taro, Ishida NTT

Comment Type E Comment Status D

"TS_EN=false", in "COMPLETE" state of Figure 56-2, should be changed into "TX_EN=false".

SuggestedRemedy

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 57 SC 1 P134 L36 # 715
Sala, Dolores Broadcom

Comment Type E Comment Status D

The purpose of this clause is not to define the GMII. It would be better to describe this clause defining the particular functions added from clause 35.

SuggestedRemedy

The purpose of this clause is to extend clause 35 to support data transmission in the preamble. I think the list of characteristics in lines 40-50 in page 134 and section 57.1.1 should list the features added (from clause 35) and these are: 1) (f in page 135) the support of multiple PLS service interfaces and 2) trasnmission of LLID in the preamble 3) filtering of packets based on LLID with support of P2PE and SE ONU filtering

Proposed Response Response Status O

CI 57 SC 2.4 P142 L # 718
Sala, Dolores Broadcom

Comment Type E Comment Status D

I think it would be useful to show the MAC data stream with a figure similar to 57-2 to describe the mapping.

The way is written is difficult to interpret what "preamble" refers to. Actually it means different things in different places for example in figure 57-2 and line 20.

SuggestedRemedy

Proposed Response Response Status O

CI 57 SC 57.1 P134 L36 # 80
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

Typo.

SuggestedRemedy

Change 'sublayer' to 'sublayers'.

Proposed Response Response Status O

CI 57 SC 57.1.2 P135 L26 # 81
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

Unnecessary 'over'.

SuggestedRemedy

Delete 'over'.

Proposed Response Response Status O

CI 57 SC 57.1.3 P L26 # 9
Marris, Arthur Cadence Design Syste

Comment Type E Comment Status D

Delete the word "over"

SuggestedRemedy

Delete the word "over"

Proposed Response Response Status O

CI 57 SC 57.1.3 P135 L32 # 82
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

The last sentence of this paragraph is a repetition of the information in the first sentence of the paragraph and is unnecessary.

SuggestedRemedy

Delete the last sentence: 'Reconciliation other interfaces.'

Proposed Response Response Status O

CI 57 SC 57.2.4.2.1 P142 L20 # 83
Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D

Missing a space between '8' and 'octets'.

SuggestedRemedy

Insert a space.

Proposed Response Response Status O

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CI 57 SC 57.2.4.2.2 P143 L 5 # 84
 Turner, Ed Lattice Semiconductor
 Comment Type E Comment Status D
 Typo in '..reception th e preamble..'
 SuggestedRemedy
 Change to '..reception the preamble..'
 Proposed Response Response Status O

CI 58 SC P151 L 1 # 387
 Bhatt, Vipul (Not Applicable)
 Comment Type E Comment Status D
 Title is too long and not strictly correct. Each PMD sublayer and baseband medium is one package, not a separate item for each direction.
 SuggestedRemedy
 Replace the title with a new title:
 "Physical Medium Dependent (PMD) sublayer and baseband medium, type 1000BASE-PX (PON)".
 Proposed Response Response Status O

CI 58 SC 16 P178 L 10, 11, an # 436
 John George OFS
 Comment Type E Comment Status D
 Fiber Optical cable requirements do not reflect Optics PMD task force instructions to editor to in July:
 "Adopt Table and Fiber types mentioned in dot ae 52.14.1 and Table 52-25, but change wavelength to 1490 nm => Specify attenuation at 1490nm (fiber manufacturers), but would still work at 1550 nm, so keep 1550nm and add a column for 1490nm
 *Final Proposal: Start with Table 53-14, add 1490-1550 column when made available by Fiber manufacturers (19 6 3) voting (for against abstain) pass"
 SuggestedRemedy
 Replace lines 10 and 11 with text in clause 60.15, page 224 line 37 through 42, and change reference in said text from Figure 60-2 to Figure 58-1. Replace table 58-24 with table 59-19, modified to remove the columns labelled "50 um MMF" and "62.5 MMF"
 Proposed Response Response Status O

CI 58 SC 17 P180 L 15 # 437
 John George OFS
 Comment Type E Comment Status D
 Redundant with 58.16
 SuggestedRemedy
 Delete line 13 through 15
 Proposed Response Response Status O

CI 58 SC 58 P156 L # 272
 Dawe, Piers Agilent
 Comment Type E Comment Status D
 Our fibre experts tell us that the nomenclature "10 um" SMF is deprecated, as nothing is necessarily 10 um. Anyway it's unnecessary.
 SuggestedRemedy
 Search and eliminate all "10 um". Occasionally you may need to say "Type B1.1, B1.3 SMF", but in nearly all cases, just "SMF" will do fine.
 Proposed Response Response Status O

CI 58 SC 58.1 P152 L 6 # 584
 Nguyen, Trung National Semiconduct
 Comment Type E Comment Status D
 Reference to 1000BASE-X PCS refers to wrong Clause.
 SuggestedRemedy
 Change from Clause 57 to Clause 36
 Proposed Response Response Status O

CI 58 SC 58.15.2 P177 L 25 # 587
 Nguyen, Trung National Semiconduct
 Comment Type E Comment Status D
 Wrong Type mentioned
 SuggestedRemedy
 Change to Type B
 Proposed Response Response Status O

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Cl 58 SC 58.4 P159 L 6 # 585
 Nguyen, Trung National Semiconduct

Comment Type E Comment Status D
 Example of meeting minimum range should be for a Type A transceiver, not a Type B transceiver.

SuggestedRemedy
 Change to "e.g. a single-mode solution operating at 10500m meets a minimum range requirement of 2 to 10000m for Type A."

Proposed Response Response Status O

Cl 58 SC 58.5.1 P163 L 3 # 586
 Nguyen, Trung National Semiconduct

Comment Type E Comment Status D
 Wrong Type mentioned

SuggestedRemedy
 Change to Type B or remove

Proposed Response Response Status O

Cl 58 SC Table 58-1 P152 L 31 # 85
 Turner, Ed Lattice Semiconductor

Comment Type E Comment Status D
 The four instances of '1000Base..' in this table are not capitalized.

SuggestedRemedy
 Capitalize the four instances of '1000Base..' to '1000BASE..'

Proposed Response Response Status O

Cl 58 SC Table 58-6 P156 L 26 # 288
 Dawe, Piers Agilent

Comment Type E Comment Status D
 Need a value for x. 100MB/s has chosen 0.5 m.

SuggestedRemedy
 0.5 m

Proposed Response Response Status O

Cl 58 SC Table58-2 P152 L # 47
 Shino, Koji NTT

Comment Type E Comment Status D
 "Input_optical_power <= Receive sensitivity" should be changed into "Input_optical_power >= Receive sensitivity"

SuggestedRemedy

Proposed Response Response Status O

Cl 58 SC Table58-3 P155 L # 48
 Shino, Koji NTT

Comment Type E Comment Status D
 "Input_optical_power <= Receive sensitivity" should be changed into "Input_optical_power >= Receive sensitivity"

SuggestedRemedy

Proposed Response Response Status O

Cl 58 SC Table58-4 P155 L # 49
 Shino, Koji NTT

Comment Type E Comment Status D
 "Input_optical_power <= Receive sensitivity" should be changed into "Input_optical_power >= Receive sensitivity"

SuggestedRemedy

Proposed Response Response Status O

Cl 58 SC Table58-5 P156 L # 50
 Shino, Koji NTT

Comment Type E Comment Status D
 "Input_optical_power <= Receive sensitivity" should be changed into "Input_optical_power >= Receive sensitivity"

SuggestedRemedy

Proposed Response Response Status O

CI 59	SC	P	L	#	528
McCammon, Kent		SBC Technology Reso			

The use of the term OLT and ONU for 1000Base-BX P2P PMD is easily confused with the use of OLT and ONU for P2MP systems

Consider using a different term for central office and remote P2P stations in the document that is different than P2MP.

CI 59	SC	P181	L1	#	388
Bhatt, Vipul		(Not Applicable)			

Title is too long and not strictly correct. Each PMD sublayer and baseband medium is one package, not a separate item for each direction. Also, the use of the word "laser" is unnecessary and assumes a certain implementation. And the word "extended" can be confusingly interpreted as "distance-extended".

Replace the title with a new title:
"Physical Medium Dependent (PMD) sublayer and baseband medium, type 1000BASE-EX
(Temperature-Extended Longwave) and 1000BASE-BX (BiDirectional Long Wavelength)".

<i>Cl</i> 59	<i>SC</i> 15	<i>P</i> 205	<i>L</i> 10 and 11	# 438
John George		OFS		

Align text with that of clause 60 to clarify requirements.

Replace with 60.15.1 page 224 lines 46 through 48. Keep reference as table 59-19.

CI 59	SC 15	P205	L 51	# 439
John George		OFS		

Redundant

Delete lines 51 through 53

CI 59	SC 59	P181	L 1	# 330
Dawe, Piers		Agilent		

Is "1000BASE-EX" a smart choice of name? Compare 10 gigabit's easy-to understand S (short wavelength), L (long wavelength), E (extra long wavelength). This PMD isn't extra long wavelength, or long reach by today's standards. It is really an upgrading of the long wavelength 1000BASE-LX. We should keep "1000BASE-EX" for any future 1550 nm gigabit Ethernet PMD standardisation. I suggest "1000BASE-MX" because M is next after L.

1000BASE-MX

CI 59	SC 59	P186	L	#	273
Dawe, Piers		Agilent			

Our fibre experts tell us that the nomenclature "10 um" SMF is deprecated, as nothing is necessarily 10 um. Anyway it's unnecessary.

Search and eliminate all "10 um". Occasionally you may need to say "Type B1.1, B1.3 SMF", but in nearly all cases, just "SMF" will do fine.

Proposed Response	Response Status	
<p>1. The proposed response is to implement a new policy that will ensure that all employees are treated fairly and equitably. This policy will be based on the principles of fairness and equity, and will be designed to ensure that all employees are treated in a consistent and fair manner.</p> <p>2. The proposed response is to implement a new policy that will ensure that all employees are treated fairly and equitably. This policy will be based on the principles of fairness and equity, and will be designed to ensure that all employees are treated in a consistent and fair manner.</p>	<p>Response Status: O</p>	

P802.3ah Draft 1.0 Comments

CI 59 SC 59.1.1 P182 L # 602
Tatum, Jim Honeywell
Comment Type E Comment Status D
59.1.1 Goals and objectives should be removed
59.1.2 should be removed
59.1.3 should be removed
SuggestedRemedy
I believe this clause should mirror clause 38 as much as possible
Proposed Response Response Status O

CI 59 SC 59.1.1 P182 L 18 # 588
Nguyen, Trung National Semiconduct
Comment Type E Comment Status D
Name of transceiver type is wrong
SuggestedRemedy
Change to 1000BASE-EX and 1000BASE-BX
Proposed Response Response Status O

CI 59 SC 59.10.2 P199 L 13 # 571
Richard Brand Nortel Networks
Comment Type E Comment Status D
Is '86 the latest revision?
SuggestedRemedy
Proposed Response Response Status O

CI 59 SC 59.11 P201 L # 628
Tatum, Jim Honeywell
Comment Type E Comment Status D
"text text text" not needed
59.11.1 not complete
SuggestedRemedy
Remove "text text text"
add IEC 600950:1991 to 59.11.1
Proposed Response Response Status O

CI 59 SC 59.11.2 P201 L 11 # 332
Dawe, Piers Agilent
Comment Type E Comment Status D
not all 1000BASE-X are subject to this clause, class 1 is now to IEC 60825-1.
SuggestedRemedy
See text of Clause 52, and 60.11.2 and comments thereto.
Proposed Response Response Status O

CI 59 SC 59.11.2 P201 L 15 # 576
Richard Brand Nortel Networks
Comment Type E Comment Status D
spelling
SuggestedRemedy
should read: "geographical regions."
Proposed Response Response Status O

CI 59 SC 59.14.2 P L # 630
Tatum, Jim Honeywell
Comment Type E Comment Status D
Table incomplete
SuggestedRemedy
Generate numbers at meeting
Proposed Response Response Status O

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CI 59 SC 59.15.3 P206 L 10 # 580
 Richard Brand Nortel Networks
 Comment Type E Comment Status D
 Is "remateable" a word?
 SuggestedRemedy
 Proposed Response Response Status O

CI 59 SC 59.16 P207 L # 632
 Tatum, Jim Honeywell
 Comment Type E Comment Status D
 PICS incomplete.
 SuggestedRemedy
 Use text in clause 38.12 as the basis for inclusion in 59
 Proposed Response Response Status O

CI 59 SC 59.2 P L # 604
 Tatum, Jim Honeywell
 Comment Type E Comment Status D
 Do not capitalize Transmit and Receive in line 2
 SuggestedRemedy
 Remove caps
 Proposed Response Response Status O

CI 59 SC 59.2.1 P183 L 13 # 607
 Tatum, Jim Honeywell
 Comment Type E Comment Status D
 Reference to offset patchchord
 SuggestedRemedy
 Remove if SMF only
 Proposed Response Response Status O

CI 59 SC 59.2.1 P183 L 13 # 606
 Tatum, Jim Honeywell
 Comment Type E Comment Status D
 xx.yy is undefined
 SuggestedRemedy
 replace with 59.10
 Proposed Response Response Status O

CI 59 SC 59.3 P186 L # 609
 Tatum, Jim Honeywell
 Comment Type E Comment Status D
 Reference to MMF in table
 SuggestedRemedy
 Remove if SMF only
 Proposed Response Response Status O

CI 59 SC 59.3 P186 L 4 # 610
 Tatum, Jim Honeywell
 Comment Type E Comment Status D
 xx.yy is not a real number
 SuggestedRemedy
 replace with 59.3
 Proposed Response Response Status O

CI 59 SC 59.3.1 P L # 612
 Tatum, Jim Honeywell
 Comment Type E Comment Status D
 reference to offset launch patch chord
 SuggestedRemedy
 Remove if SMF only
 Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 59 SC 59.3.1 P187 L4 # 611
Tatum, Jim Honeywell
Comment Type E Comment Status D
ZZ is not correct
SuggestedRemedy
replace with appropriate number
Proposed Response Response Status O

CI 59 SC 59.4 P189 L3 # 618
Tatum, Jim Honeywell
Comment Type E Comment Status D
xx.yy is not a real reference
SuggestedRemedy
change to 59.4
Proposed Response Response Status O

CI 59 SC 59.4.2 P191 L3 # 620
Tatum, Jim Honeywell
Comment Type E Comment Status D
ZZ b ot valid
SuggestedRemedy
Change to 59.10. when clause is defined.
Proposed Response Response Status O

CI 59 SC 59.9 P198 L Table 59-1 # 570
Richard Brand Nortel Networks
Comment Type E Comment Status D
Incomplete values
SuggestedRemedy
Proposed Response Response Status O

CI 59 SC 59-1 P181 L1 # 600
Tatum, Jim Honeywell
Comment Type E Comment Status D
Naming convention not consistent BiDirectional OLT Longwave Laser and Bidirectional Longwave ONU Laser
SuggestedRemedy
Make ONU and OLT naming the same in the title (lines 2 and 3)
Proposed Response Response Status O

CI 59 SC 59-5 P187 L # 613
Tatum, Jim Honeywell
Comment Type E Comment Status D
Text not centered in table
SuggestedRemedy
Proposed Response Response Status O

CI 59 SC 59-5 P187 L # 614
Tatum, Jim Honeywell
Comment Type E Comment Status D
Text not centered in table
SuggestedRemedy
Center text
Proposed Response Response Status O

CI 59 SC 59-5 P187 L40 # 615
Tatum, Jim Honeywell
Comment Type E Comment Status D
XXX is not a value, and it references offset patch chord
SuggestedRemedy
Rmove if no MMF, or correct numbering
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 59 **SC 60** **P210** **L 33** # **338**
Dawe, Piers Agilent

Comment Type **E** **Comment Status** **D**

Need better descriptors in place of "-OLT" and "-ONU". While they are rubbish descriptors for a PON, here where we are dealing with a point-to-point link they have no bearing at all. However, while it cannot be compulsory, it may be convenient to associate the two PMDs types to some concept of head and tail or centre and periphery or top and bottom.

SuggestedRemedy

Suggestions welcome! Also need to say what "upstream" and downstream" (60.14.2) mean.

Proposed Response **Response Status** **O**

Cl 59 **SC Table 59-10** **P192** **L 14** # **248**
Jönsson, Ulf Ericsson AB

Comment Type **E** **Comment Status** **D**

The minimum range shall be 0.5 to 10000 meters and not 2 to 10000 meters. This vote was unanimously passed in the Vancouver Plenary and should according to the document "notestotheeditor_clause60_0702.doc" be applied to all EFM PMDs.

SuggestedRemedy

Minimum range (meters) = 0.5 to 10000

Proposed Response **Response Status** **O**

Cl 59 **SC Table 59-7** **P189** **L 14** # **247**
Jönsson, Ulf Ericsson AB

Comment Type **E** **Comment Status** **D**

The minimum range shall be 0.5 to 10000 meters and not 2 to 10000 meters. This vote was unanimously passed in the Vancouver Plenary and should according to the document "notestotheeditor_clause60_0702.doc" be applied to all EFM PMDs.

SuggestedRemedy

Minimum range (meters) = 0.5 to 10000

Proposed Response **Response Status** **O**

Cl 60 **SC 15** **P224** **L 39** # **440**
John George OFS

Comment Type **E** **Comment Status** **D**

table reference is blank

SuggestedRemedy

Replace XX with 60-20.

Proposed Response **Response Status** **O**

Cl 60 **SC 60** **P209** **L 2** # **253**
Dawe, Piers Agilent

Comment Type **E** **Comment Status** **D**

Title is over long and not strictly correct. Each PMD sublayer and baseband medium is one package, not a separate item for each direction.

SuggestedRemedy

Replace "100BASE-BX-OLT (BiDirectional OLT Longwave Laser) and 100BASE-BX-ONU (BiDirectional Longwave ONU Laser)" with "100BASE-BX (BiDirectional Long Wavelength)", here and in 60.16.4.

Proposed Response **Response Status** **O**

Cl 60 **SC 60** **P210** **L 33** # **286**
Dawe, Piers Agilent

Comment Type **E** **Comment Status** **D**

Need better descriptors in place of "-OLT" and "-ONU". While they are rubbish descriptors for a PON, here where we are dealing with a point-to-point link they have no bearing at all. However, while it cannot be compulsory, it may be convenient to associate the two PMDs types to some concept of head and tail or centre and periphery or top and bottom.

SuggestedRemedy

Suggestions welcome! Also need to say what "upstream" and downstream" (60.14.2) mean.

Proposed Response **Response Status** **O**

P802.3ah Draft 1.0 Comments

Cl 60 **SC 60** **P212** **L 13** # **274**
Dawe, Piers Agilent
Comment Type **E** *Comment Status* **D**
Our fibre experts tell us that the nomenclature "10 um" SMF is deprecated, as nothing is necessarily 10 um. Anyway it's unnecessary.
SuggestedRemedy
Search and eliminate all "10 um". Occasionally you may need to say "Type B1.1, B1.3 SMF", but in nearly all cases, just "SMF" will do fine.
Proposed Response *Response Status* **O**

Cl 60 **SC 60** **P212** **L 9** # **279**
Dawe, Piers Agilent
Comment Type **E** *Comment Status* **D**
Tables 60-4,7,10 are redundant, with each other and just redundant, needed only when there are different fiber types e.g. in Clause 38.

It would be better to put just one table in 60.1 with columns:

Port type, Nominal wavelength, Number of fibres, Fiber type, Minimum range
SuggestedRemedy
As above. You can refer to the new table 1 from 60.3,4,5.
Proposed Response *Response Status* **O**

Cl 60 **SC 60.1** **P209** **L 37** # **236**
Jönsson, Ulf Ericsson AB
Comment Type **E** *Comment Status* **D**
There does not exist a 100BASE-BX PMD
SuggestedRemedy
Change either to "100BASE-BX-OLT PMD and 100BASE-BX-ONU PMD" or "100BASE-BX PMD set"
Proposed Response *Response Status* **O**

Cl 60 **SC 60.1** **P209** **L 37** # **257**
Dawe, Piers Agilent
Comment Type **E** *Comment Status* **D**
"baseband medium for single-mode fiber." needs rewording. "baseband" is not true, the information modulates an optical carrier, and not necessary, we have only one modulation format in the context. "medium for single-mode fiber" is wrong: the medium IS single-mode fiber.
SuggestedRemedy
Replace "baseband medium for single-mode fiber." with "medium, single-mode fiber."
Proposed Response *Response Status* **O**

Cl 60 **SC 60.1** **P209** **L 38** # **258**
Dawe, Piers Agilent
Comment Type **E** *Comment Status* **D**
"complete Physical Layer, it": what is "it"? There are several PMDs here.
SuggestedRemedy
"complete Physical Layer, a PMD"
Proposed Response *Response Status* **O**

Cl 60 **SC 60.1** **P209** **L 39** # **259**
Dawe, Piers Agilent
Comment Type **E** *Comment Status* **D**
24*ref*
SuggestedRemedy
Make the cross-reference and delete the "*ref*"
Proposed Response *Response Status* **O**

Cl 60 **SC 60.1.1** **P210** **L 1** # **262**
Dawe, Piers Agilent
Comment Type **E** *Comment Status* **D**
"Optical EFM" is confusing; there are no other PHYs in this clause.
SuggestedRemedy
Delete.
Proposed Response *Response Status* **O**

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Cl 60 SC 60.10.1 P219 L45 # 302
Dawe, Piers Agilent

Comment Type E Comment Status D
Unwanted space

SuggestedRemedy
4B/5B

Proposed Response Response Status O

Cl 60 SC 60.10.5 P220 L42 # 303
Dawe, Piers Agilent

Comment Type E Comment Status D
text needed

SuggestedRemedy
start from clause 52

Proposed Response Response Status O

Cl 60 SC 60.10.6 P220 L46 # 304
Dawe, Piers Agilent

Comment Type E Comment Status D
text needed

SuggestedRemedy
TBD

Proposed Response Response Status O

Cl 60 SC 60.11.2 P222 L15 # 311
Dawe, Piers Agilent

Comment Type E Comment Status D
Not all 100BASE-X optical transceivers are subject to this clause, not all need contain lasers.

SuggestedRemedy
"A 100BASE-LX or 100BASE-BX transceiver described by this clause which contains a laser shall ..."

Proposed Response Response Status O

Cl 60 SC 60.13 P222 L40 # 312
Dawe, Piers Agilent

Comment Type E Comment Status D
Avoid wasting virtual paper, and readers' time. "use" should be "user".

SuggestedRemedy
Replace whole contents of subclause with:
"It is recommended that each PHY (and supporting documentation) be labeled in a manner visible to the user, with at least the applicable safety warnings and the applicable port type designation (e.g., 100BASE-BX-ONU).

Labeling requirements for Class 1 lasers are given in the laser safety standards referenced in 60.11.2."

(The last sentence is unchanged.)

Proposed Response Response Status O

Cl 60 SC 60.13 P222 L40 # 313
Dawe, Piers Agilent

Comment Type E Comment Status D
Why do we have 60.11 Environmental specifications followed by 60.12 Environment ?
Looks like our document structure needs updating.

SuggestedRemedy
Downgrade the latter to 60.11.4 Environment .

Proposed Response Response Status O

Cl 60 SC 60.15 P224 L39 # 315
Dawe, Piers Agilent

Comment Type E Comment Status D
XX

SuggestedRemedy
60-20

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 60 SC 60.15.2 P224 L 52 # 316
Dawe, Piers Agilent
Comment Type E Comment Status D
XX
SuggestedRemedy
60-2
Proposed Response Response Status O

Cl 60 SC 60.15.2 P224 L 52 # 245
Jönsson, Ulf Ericsson AB
Comment Type E Comment Status D
I believe Figure XX should be Figure 60-2. However, Figure 60-2 does not depict the optical fiber connection. The text has obviously been copied from Clause 38.11.2 where Figure 38-7 shows the connection.
SuggestedRemedy
Either remove or modify the text to not reference Figure 60-2. Alternatively modify the picture to show the "connection".
Proposed Response Response Status O

Cl 60 SC 60.16.1 P226 L 12 # 322
Dawe, Piers Agilent
Comment Type E Comment Status D
21*ref*
SuggestedRemedy
Make the cross-reference and delete the "*ref*".
Proposed Response Response Status O

Cl 60 SC 60.2 P210 L 17 # 265
Dawe, Piers Agilent
Comment Type E Comment Status D
"The 100BASE-X PMDs": there are other 100BASE-X PMDs, see clauses 25 and 26.
SuggestedRemedy
"The 100BASE-X PMDs of this clause" or "The PMDs of this clause"
Proposed Response Response Status O

Cl 60 SC 60.2.1 P210 L 24 # 268
Dawe, Piers Agilent
Comment Type E Comment Status D
"... TP1 and TP4 will be common between 100BASE-LX, 100BASE-BX-OLT, and 100BASE-BX-ONU." The reader will benefit in knowing that they might be common with 100BASE-FX too.
SuggestedRemedy
"... 100BASE-BX-OLT, 100BASE-BX-ONU, and 100BASE-FX." See another comment against OLT and ONU.
Proposed Response Response Status O

Cl 60 SC 60.2.4.1 P211 L 7 # 590
Nguyen, Trung National Semiconduct
Comment Type E Comment Status D
Input optical power for OK Signal Detect Value states "<=" in Table 60-1. Same comment for Tables 60-2 and 60-3.
SuggestedRemedy
Should read ">= max receive sensitivity as stated in Table 60-6" for Table 60-1, and ref respective Tabled for Tables 60-2 and 60-3.
Proposed Response Response Status O

Cl 60 SC 60.3,4,5 P212 L 4 # 271
Dawe, Piers Agilent
Comment Type E Comment Status D
xx.yy should be
SuggestedRemedy
60.15 (three times)
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 60 **SC 60.3.1** **P212** **L 45** # **597**
 Nguyen, Trung National Semiconduct

Comment Type **E** *Comment Status* **D**

Table 60-5, Transmitter eye mask definition should read X1, X2, X3, Y1, Y2, 1-Y2, 1-Y1.
 Also, this is the mask which should be met under the worst case DC wander test conditions.

SuggestedRemedy

Change to "(X1, X2, X3, Y1, Y2, 1-Y2, 1-Y1).
 Last two values should be change to 0.62 and 0.65
 Add comment that this eye mask should be used with the bit pattern to be specified.

Proposed Response *Response Status* **O**

Cl 60 **SC 60.3.2** **P213** **L 16** # **593**
 Nguyen, Trung National Semiconduct

Comment Type **E** *Comment Status* **D**

Should state that this is a min value for Return Loss. Is this the return loss of light reflected back into the fiber from the receiver module? Should be labelled "Receiver Reflectance" ?

SuggestedRemedy

Add "(min)" to Return Loss.

Proposed Response *Response Status* **O**

Cl 60 **SC 60.3-5** **P217** **L 20** # **295**
 Dawe, Piers Agilent

Comment Type **E** *Comment Status* **D**

These three subclauses are unnecessarily repetitive. The text and the first table in each subclause is identical. Much of the remaining tables are too. It will help the reader if they are combined into five-column tables: see Table 38–7 for an example.

SuggestedRemedy

Merge the subclauses and the tables.

Proposed Response *Response Status* **O**

Cl 60 **SC 60.6-7** **P217** **L 20** # **297**
 Dawe, Piers Agilent

Comment Type **E** *Comment Status* **D**

These two subclauses are unnecessarily repetitive. The text and much of the tables in each subclause is identical. It will help the reader if they are combined into a five-column table: see Table 38–7 for an example.

SuggestedRemedy

Merge the subclauses and the tables.

Proposed Response *Response Status* **O**

Cl 60 **SC Header** **P209** **L 23** # **53**
 Mickelsson, Hans Ericsson AB

Comment Type **E** *Comment Status* **D**

I propose a change of name for 100BASE-BX_OLT and 100BASE-BX-ONU to 100BASE-BDX and 100BASE-BUX respectively. Where D stands for downlink and U stands for uplink. The reason for this proposed change is to avoid confusion with PON nomenclature which by tradition use OLT and ONU in their naming schemes. The proposed change will refelct that this PMD (clause 60) will only be used for point-to-point links.

SuggestedRemedy

Physical Medium Dependent (PMD) sublayer and baseband medium type 100BASE-LX (Longwavelength Laser), 100BASE-BDX (BiDirectional Downlink Laser) and 100BASE-BUX (BiDirectional Uplink Laser)

Proposed Response *Response Status* **O**

Cl 60 **SC Table 60-1** **P211** **L 7** # **240**
 Jönsson, Ulf Ericsson AB

Comment Type **E** *Comment Status* **D**

Correction: "<" should be corrected to ">".

SuggestedRemedy

Input_optical_power >= Receive sensitivity AND compliant 100BASE-X signal input

Proposed Response *Response Status* **O**

P802.3ah Draft 1.0 Comments

CI 60 SC Table 60-2 P211 L 27 # 241
Jönsson, Ulf Ericsson AB

Comment Type E Comment Status D

Correction: "<" should be corrected to ">".

SuggestedRemedy

Input_optical_power >= Receive sensitivity AND compliant 100BASE-X signal input

Proposed Response Response Status O

CI 60 SC Table 60-3 P211 L 45 # 242
Jönsson, Ulf Ericsson AB

Comment Type E Comment Status D

Correction: "<" should be corrected to ">".

SuggestedRemedy

Input_optical_power >= Receive sensitivity AND compliant 100BASE-X signal input

Proposed Response Response Status O

CI 60 SC Table 60-4 P212 L 13 # 275
Dawe, Piers Agilent

Comment Type E Comment Status D

"Minimum range (meters), 0.5 to 10000" will attract the style police

SuggestedRemedy

Minimum range
0.5 m to 10 km

Proposed Response Response Status O

CI 60 SC Table 60-5 P212 L 43 # 283
Dawe, Piers Agilent

Comment Type E Comment Status D

I think it helps the reader to see the transmit OMA in dBm as well as mW. It may not be good style to use a number <<1. Four significant figures are not justifiable.

SuggestedRemedy

Change to 37.9 uW. Add "-14.2 dBm"

Proposed Response Response Status O

CI 61 SC 61.1 P L 4 # 10
Marris, Arthur Cadence Design Syste

Comment Type E Comment Status D

Second sentence might read better if reworded.

SuggestedRemedy

Try rewording second sentence to read:

"These PHYs deliver a minimum of 10 Mb/s over distances of up to 750 metres, and a minimum of 2 Mb/s over distances of 2700 metres, using a single copper pair."

Proposed Response Response Status O

CI 61 SC 61.1 P L 8 # 11
Marris, Arthur Cadence Design Syste

Comment Type E Comment Status D

Delete ", however"

SuggestedRemedy

Delete ", however"

Proposed Response Response Status O

CI 61 SC 61.1 P230 L 3 # 200
Zion Shohet Infineon

Comment Type E Comment Status D

10PASS-TS reffers to both QAM and DMT sections.

For purpose of clarity and convinience, better to use different notation to each of them, as is done for the long reach objectives.

This is till we have only one technology.

SuggestedRemedy

For example- 10PASS-TS-Q for QAM and 10PASS-TS-D for DMT.

Proposed Response Response Status O

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Cl 61 SC 61.1 P230 L7 # 417

Wei, Dong SBC Communications,

Comment Type E Comment Status D

The usage of "This system" is incorrect.

SuggestedRemedy

Replace "This system is" by "These systems are".

Proposed Response Response Status O

Cl 61 SC 61.1.4.1.2 P231 L15 # 407

Jackson, Stephen Hatteras Networks

Comment Type E Comment Status D

Generally, Clause 61 will change in content as the definition of the aggregation methodology is refined. This especially refers to the ending sentence, referring to subclause 61.2.2

SuggestedRemedy

Strike last sentence in subclause 61.1.4.1.2

Proposed Response Response Status O

Cl 61 SC 61.1.4.2 P231 L30 # 201

Zion Shohet Infineon

Comment Type E Comment Status D

Change to "summary of Handshaking and PHY control specification"

SuggestedRemedy

Proposed Response Response Status O

Cl 61 SC 61.2.1.2.1 P L35 # 13

Marris, Arthur Cadence Design Syste

Comment Type E Comment Status D

Table 23-1 should be placed here

SuggestedRemedy

Insert table 23-1 or insert text saying "See 23.2.2.1"

Proposed Response Response Status O

Cl 61 SC 61.2.2 P233 L28 # 396

Jackson, Stephen Hatteras Networks

Comment Type E Comment Status D

I'd rather see a more sensible number, like 2-24 PHYs. 32 sounds good because it's a power of two, but in reality, 24 is the maximum.

SuggestedRemedy

Chage "32" to "24."

Proposed Response Response Status O

Cl 61 SC 61.2.2.2 P234 L33 # 397

Jackson, Stephen Hatteras Networks

Comment Type E Comment Status D

This subclause elements (a-f) effectively contradict subclause 61.2.2 (a-f) on the page immediately before it.

SuggestedRemedy

Strike, in favor of an update pending the approval of any new baseline updates.

Proposed Response Response Status O

Cl 61 SC 61.2.2.3 P235 L10 # 398

Jackson, Stephen Hatteras Networks

Comment Type E Comment Status D

I don't understand the meaning of "an invalid frame with 4 our (sic) more octets between flags"

SuggestedRemedy

Cite explanation of why this is an error.

Proposed Response Response Status O

Cl 61 SC 61.2.2.3 P235 L10 # 202

Zion Shohet Infineon

Comment Type E Comment Status D

change '... frame with 4 out more ...' to '... frame with 4 or more ...'

SuggestedRemedy

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 61 SC 61.2.2.3.1 P235 L 27 # 399
 Jackson, Stephen Hatteras Networks
 Comment Type E Comment Status D
 Parenthetical phrase redundant (with or without...)
 SuggestedRemedy
 strike
 Proposed Response Response Status O

Cl 61 SC 61.2.2.5 P236 L 27 # 203
 Zion Shohet Infineon
 Comment Type E Comment Status D
 change " frame sequence number (10 bits) for MAC frame", to, "MAC frame sequence number (10 bits).
 SuggestedRemedy
 Proposed Response Response Status O

Cl 61 SC 61.2.2.5 P236 L 31 # 204
 Zion Shohet Infineon
 Comment Type E Comment Status D
 figure 3 is referenced. Yet, there is no such figure. Should be added.
 SuggestedRemedy
 Proposed Response Response Status O

Cl 61 SC 61.2.3.1.2 P242 L 1-3 # 207
 Zion Shohet Infineon
 Comment Type E Comment Status D
 there is a detailed description in 62.1.4.1. Need to decide what to do here.
 SuggestedRemedy
 Proposed Response Response Status O

Cl 61 SC Figure P283 L 1 # 512
 Frazier, Howard Dominet Systems
 Comment Type E Comment Status D
 All figures must be editable framemaker drawings
 SuggestedRemedy
 Delete this figure, or redraw in framemaker
 Proposed Response Response Status O

Cl 61 SC Table P244 L 15 # 511
 Frazier, Howard Dominet Systems
 Comment Type E Comment Status D
 All tables must follow IEEE style manual
 SuggestedRemedy
 Use IEEEformat for all tables. Number tables as follows:
 <clause#>emdash<n+>
 Proposed Response Response Status O

Cl 61 SC Table 11 P251 L 27 # 505
 Cook, Charles Qwest
 Comment Type E Comment Status D
 - Change "Band A" to "Band A as defined in ITU G.993.1"
 - Change "Band B" to "Band B as defined in ITU G.993.1"
 - Change "Band C" to "Band C as defined in ITU G.993.1"
 - Add a normative note to the table that " The use of a particular band plan is subject to the regional spectral management requirement"
 SuggestedRemedy
 See above.
 Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 61A SC annex 61A P282 L1 # 209
Zion Shohet Infineon

Comment Type E Comment Status D
this annex should be removed. It has never been discussed, nor presented, nor agreed upon. The information within this text is not a std anywhere.
This annex should be removed.

SuggestedRemedy

Proposed Response Response Status O

Cl 62 SC P L # 471
Vladimir Oksman Broadcom

Comment Type E Comment Status D
Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 6.3. Receive Functionality"
2. Replace the text of the section with word "stet".

Proposed Response Response Status O

Cl 62 SC P285 L15 # 442
Vladimir Oksman Broadcom

Comment Type E Comment Status D
No reference to T1, ETSI and ITU standards

SuggestedRemedy

- Introduce references below line 15
T1.424/Trial-use Part 2
G.993.1
TS 101 270-1
TS 101 270-2

Proposed Response Response Status O

Cl 62 SC 62.1.2 P286 L 14, 15 # 443
Vladimir Oksman Broadcom

Comment Type E Comment Status D
It is not clear that full duplex operation should be with 10 Mb/s. Also, the MII in EFM application actually operates in half duplex mode.

SuggestedRemedy

Clarify the wording, with meaning "10Mb/s simultaneously in both directions".

Proposed Response Response Status O

Cl 62 SC 62.1.4 P286 L 27 # 445
Vladimir Oksman Broadcom

Comment Type E Comment Status D
The referenced figure is not valid.

SuggestedRemedy

Introduce a valid reference.

Proposed Response Response Status O

Cl 62 SC 62.1.4.1 P286 L 32 # 446
Vladimir Oksman Broadcom

Comment Type E Comment Status D
Terms VTU-O, VTU-R are not introduced and may be actually not appropriate here.

SuggestedRemedy

Clarify definitions of the system parts and link them clearly with VDSL standards if necessary.

Proposed Response Response Status O

Cl 62 SC 62.1.4.1.2 P287 L 1 # 447
Vladimir Oksman Broadcom

Comment Type E Comment Status D
Table 62-1 doesn't include the data flow signals.

SuggestedRemedy

Add data flow signals TX_s, Rx_s to the Table.

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 62 SC 62.1.4.1.2 P287 L1 # 448
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Table 62-1 splits the text of the paragraph.
SuggestedRemedy
Move the table into inter-paragraph space.
Proposed Response Response Status O

Cl 62 SC 62.1.4.1.2 P287 L27 # 449
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Wrong reference, should be "Table 62-1".
SuggestedRemedy
Fix the reference.
Proposed Response Response Status O

Cl 62 SC 62.1.4.2.2 P288 L1 # 450
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Incomplete reference
SuggestedRemedy
Change sentence to " The data flow and synchronization flow signals"
Proposed Response Response Status O

Cl 62 SC 62.2.2 P289 L40 # 348
Tom Mathey Independent
Comment Type E Comment Status D
For the scrambler, please use a figure such as was used in Clause 49.
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.2.4.1 P290 L 42, 45 # 211
Zion Shohet Infineon
Comment Type E Comment Status D
define the XXXX
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.2.4.2 P292 L 23 # 212
Zion Shohet Infineon
Comment Type E Comment Status D
unclear line
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.3.2 P297 L 48 # 213
Zion Shohet Infineon
Comment Type E Comment Status D
change "Figure 62-2" to "Figure 62-5"
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.3.2.1 P298 L 29 # 214
Zion Shohet Infineon
Comment Type E Comment Status D
change "...Figure 62-3.." to "...Figure 62-6 .."
SuggestedRemedy
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 62 SC 62.3.2.1 P298 L 52 # 451

Vladimir Oksman

Broadcom

Comment Type E Comment Status D

Reference "TBD"

SuggestedRemedy

1. Change "... channel as described in TBD" to "... channel."
2. Introduce a new section 62.3.2.1.1 "Reference 1-2 section 7.3.1.1. Multiplexing of VOC and eoc" with text "Stet"
3. Introduce a new section 62.3.2.1.2 "Reference 1-2 section 7.3.1.2. Demultiplexing of VOC and eoc" with text "Stet".

Proposed Response Response Status O

CI 62 SC 62.3.2.2.3 P299 L 49, 50 # 215

Zion Shohet

Infineon

Comment Type E Comment Status D

Change "Table x" to table "62-8".
Also, change "the CRC_1 and CRC_2 bits shall be assigned as specified in Table 62-8", to, "CRC bits calculation is described in 62.3.2.2.5".

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.3.2.2.3 P299 L 50 # 452

Vladimir Oksman

Broadcom

Comment Type E Comment Status D

Confusing reference

SuggestedRemedy

Change "...in Table 68-2." to "in sub-clause 62.3.2.2.5."

Proposed Response Response Status O

CI 62 SC 62.3.2.2.3 P300 L 10 # 454

Vladimir Oksman

Broadcom

Comment Type E Comment Status D

Inconsistent specification for IB-2...IB-5.

SuggestedRemedy

Align the description for IB-2...IB-5.

Proposed Response Response Status O

CI 62 SC 62.3.2.2.3 P300 L 25 # 216

Zion Shohet

Infineon

Comment Type E Comment Status D

Add an editor note: the use of NTR is not yet finalized.
Meanwhile, we reserve this bit for NTR.

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.3.2.2.3 P300 L 34 # 217

Zion Shohet

Infineon

Comment Type E Comment Status D

change "IIB-7" to "IB-7"

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.4.3 P306 L 51 # 107

Beck, Michael

Alcatel

Comment Type E Comment Status D

Reference to non-existent subclause 62.7.6.

SuggestedRemedy

Change to: "as defined in 61.3".

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 62 SC 62.4.4 P307 L 20 # 218

Zion Shohet

Infineon

Comment Type E Comment Status D

change "PCA" to "PMA"

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.4.5.6 P L # 654

O'Mahony, Barry

Intel Corp.

Comment Type E Comment Status D

This section needs to be updated to align with G.994 section defined in Clause 61.

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.4.6.1.2.1 P319 L 8 # 507

Frazier, Howard

Dominet Systems

Comment Type E Comment Status D

IEEE Style manual limits us to 5 levels of indenture, e.g. 62.4.6.1.2.

SuggestedRemedy

Renummer subclauses using limit of 5 levels of indenture.

Proposed Response Response Status O

CI 62 SC 62.5 P323 L 38 # 459

Vladimir Oksman

Broadcom

Comment Type E Comment Status D

Referencing to other standard bodies is not intensively used in the section.

SuggestedRemedy

Add a paragraph specifying referencing to other standard bodies with the following text.

" The presented SCM PMD functionality is specified by incorporating by reference:

- T1.424/Trial-Use standard Part 1 (Reference 1-1)
- T1.424/Trial-Use standard Part 2 (Reference 1-2)
- ITU-T G.993.1 (Reference 2)
- ETSI TS 101 270-1 (Reference 3-1)
- ETSI TS 101 270-2 (Reference 3-2)."

Proposed Response Response Status O

CI 62 SC 62.5 2.2.1 P327-334 L 27 # 465

Vladimir Oksman

Broadcom

Comment Type E Comment Status D

Change to a Referenced section and fix incorrect references.

SuggestedRemedy

1. Change the title to "Modified Reference 1-2 section 6.2.2.1. Constellation encoder"
2. Replace all the text and figures of the section Pages 327-333 except Table 62-24 to the following text: "Additionally to specified in the Reference, 2-point, 512-point, and 1024-point constellations are supported. The differential encoding for 2-point constellation shall be as specified in Table 62-24. The constellation diagram for 512-point is given in Figure 62-25."
3. After replacement follow the text from line 1 Page 334.
4. Change "Table 3" in line 41 of Page 334 to "Table 62-26"

Proposed Response Response Status O

CI 62 SC 62.5.1.1 P323 L 46, 51 # 460

Vladimir Oksman

Broadcom

Comment Type E Comment Status D

Missing reference ("TBD")

SuggestedRemedy

Add reference 62.5.4 in line 47 and remove "... (see section TBD)" from line 51 since the reference is the next sub-clause.

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 62 SC 62.5.1.1 P323 L 46, 51 # 458
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Missing reference ("TBD")
SuggestedRemedy
Add reference 62.5.4 in line 47 and remove "... (see section TBD)" from line 51 since the reference is the next sub-clause.
Proposed Response Response Status O

CI 62 SC 62.5.1.2 P324 L 30-38 # 462
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section
SuggestedRemedy
Change the title to "Reference 1-2 section 6.1.3. Timing " and replace the text with "Stet"
Proposed Response Response Status O

CI 62 SC 62.5.1.2 P324 L 35 # 461
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Missing reference ("TBD")
SuggestedRemedy
Change the last sentence of the paragraph to " ... frequencies are regionally specific. The currently standardized values are specified in Reference 2, section 6.1 and Annexes A, B, C. "
Proposed Response Response Status O

CI 62 SC 62.5.2.1 P325 L 3, 10-22 # 463
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section and fix the missing and incorrect references.
SuggestedRemedy
1. Change the title to "Modified Reference 1-2 section 6.2.1. Splitter".
2. Change "section TBD" in line 10 to "sub-clause 62.3.2.2".
3. Change "Figure 2" in lines 14,15,22 to "Figure 62-15".
Proposed Response Response Status O

CI 62 SC 62.5.2.2 P327 L 1, 3, 5 # 464
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section and fix incorrect references.
SuggestedRemedy
1. Change the title to "Modified Reference 1-2 section 6.2.2. Coding and Modulation".
2. Change "EFM-O, EFM-R" in line 3 to "VTU-O, VTU-R", respectively.
3. Change "Figure 62-13" to "Figure 62-16" in line 10.
Proposed Response Response Status O

CI 62 SC 62.5.2.2.1 P327 L 29-43 # 220
Zion Shohet Infineon
Comment Type E Comment Status D
references to figures and tables are incorrect.
SuggestedRemedy
Proposed Response Response Status O

CI 62 SC 62.5.2.2.1 P328 L 28 # 221
Zion Shohet Infineon
Comment Type E Comment Status D
in table 62-24, in the 2 right columns, change "previuos" to "current"
SuggestedRemedy
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 62 SC 62.5.2.2.2 P334 L 48 # 466
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Modified Reference 1-2 section 6.2.2.2. Modulator"
2. Replace the text of the section with: "The amplitudes In and Qn components shall maintain the relative values of 1, 3, 5, ... 31 as depicted in the constellation diagram in Figure 62-25 and in Table 62-26, with a tolerance of +/-0.06 relative to these values.

Proposed Response Response Status O

CI 62 SC 62.5.2.2.4 P338 L 14 # 470
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 6.5.1.3. Spectral allocation of the transmit signal"
2. Replace the text of the section with word "stet".

Proposed Response Response Status O

CI 62 SC 62.5.4 P338 L 42-44 # 472
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Incorrect reference

SuggestedRemedy

1. Change "Figure 1" in line 42 to "Figure 62-14"
2. Change "section TBD" in line 44 to "Reference 1-1 section 5".

Proposed Response Response Status O

CI 62 SC 62.5.4.1.1 P339 L 2-5 # 473
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Incomplete specification (TBD)

SuggestedRemedy

1. Change the first sentence to "...comply with the set PSD templates and the wideband power limitation as specified in section TBD." to "...comply with the regionally specific PSD templates and the wideband power limitation. The standardized values are specified in Reference 1-1 section 7.1, and Reference 3-1 section 8.2.5.2.1."
2. Change "section TBD in line 5 to "sub-clause 62.5.8.2.1.2"

Proposed Response Response Status O

CI 62 SC 62.5.4.1.3 P339 L 14 # 474
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

3. Change the title to "Reference 1-2 section 6.4.2.1.2. Egress control"
4. Replace the text of the section with word "stet".

Proposed Response Response Status O

CI 62 SC 62.5.4.2 P341 L 37, 41, 45 # 478
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Incorrect references and titles.

SuggestedRemedy

1. Change "Table 5" in line 38 to "Table 62-28"
2. Change "Figure 12" in line 45 to "Figure 62-26"
3. Move Table 62-29 from Page 342 under the title 62-28
4. Remove the wrong title 62-29

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 62 SC 62.5.4.2 P341 L 41 # 226
 Zion Shohet Infineon
 Comment Type E Comment Status D
 no table
 SuggestedRemedy

Proposed Response Response Status O

Cl 62 SC 62.5.4.2 P342 L 1 # 227
 Zion Shohet Infineon
 Comment Type E Comment Status D
 table title is wrong. should be "out of band PSD masks".
 SuggestedRemedy

Proposed Response Response Status O

Cl 62 SC 62.5.4.2 P342 L 24, 25 # 228
 Zion Shohet Infineon
 Comment Type E Comment Status D
 equation overlaps the text.
 SuggestedRemedy

Proposed Response Response Status O

Cl 62 SC 62.5.4.2.2.1 P335 L 23 # 467
 Vladimir Oksman Broadcom
 Comment Type E Comment Status D
 Change to a Referenced section.
 SuggestedRemedy

Change the title to "Modified Reference 1-2 section 6.2.2.2.1. Symbol rates and carrier frequencies"

Proposed Response Response Status O

Cl 62 SC 62.5.4.2.2.1 P335 L 42 # 222
 Zion Shohet Infineon
 Comment Type E Comment Status D
 delete item 2 "some values section tbd"
 SuggestedRemedy

Proposed Response Response Status O

Cl 62 SC 62.5.4.2.2.2 P336 L 1, 15 # 468
 Vladimir Oksman Broadcom
 Comment Type E Comment Status D
 Incorrect references
 SuggestedRemedy

1. Change "Figure 3" in Line 1 to "Figure 62-16"
2. Change "Table 4" in Line 15 to "Table 62-27"

Proposed Response Response Status O

Cl 62 SC 62.5.4.2.2.2 P337 L 39, 42 # 469
 Vladimir Oksman Broadcom
 Comment Type E Comment Status D
 Missing references
 SuggestedRemedy

1. Change "Figure 3" in Line 39 to "Figure 62-16"
2. Change "section TBD" in Line 42 to "sub-clause 62.5.4.2"

Proposed Response Response Status O

Cl 62 SC 62.5.4.3 P342 L 24 # 479
 Vladimir Oksman Broadcom
 Comment Type E Comment Status D
 Formula overlaps the text.
 SuggestedRemedy

Fix the format of the formula

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 62 **SC 62.5.5** **P342** **L 46** # **480**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change the following sections to Referenced.

SuggestedRemedy

Add a sentence: " In the referenced sections the OOC is referred as VDSL Overhead Control (VOC) channel"

Proposed Response *Response Status O*

Cl 62 **SC 62.5.5.1** **P343** **L 1** # **481**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 8.1.1. VOC messages"

2. Replace the text of the section with word "stet".

Proposed Response *Response Status O*

Cl 62 **SC 62.5.5.2** **P343** **L 14** # **482**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 8.1.2. VOC message transport"

2. Replace the text of the section with word "stet".

Proposed Response *Response Status O*

Cl 62 **SC 62.5.5.2.1** **P343** **L 19** # **483**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 8.1.2.1. VOC handshake"

2. Replace the text of the section with word "stet".

Proposed Response *Response Status O*

Cl 62 **SC 62.5.5.2.2** **P344** **L 19** # **484**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 8.1.2.2. VOC handshake"

2. Replace the text of the section with word "stet".

Proposed Response *Response Status O*

Cl 62 **SC 62.5.5.2.2** **P344** **L 34** # **485**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 8.1.2.2. VOC handshake flow charts"

2. Replace the text of the section with word "stet".

Proposed Response *Response Status O*

Cl 62 **SC 62.5.5.2.3** **P346** **L 33** # **486**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 8.1.2.3. Multiple words communication"

2. Replace the text of the section with word "stet".

Proposed Response *Response Status O*

Cl 62 **SC 62.5.5.3** **P346** **L 46** # **487**

Vladimir Oksman Broadcom

Comment Type E **Comment Status D**

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 8.1.3. VOC message set"

2. Replace the text of the section with word "stet".

Proposed Response *Response Status O*

P802.3ah Draft 1.0 Comments

Cl 62 SC 62.5.5.3.1 P347 L7 # 488
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 8.1.3.1. Status messages"
2. Replace the text of the section with word "stet".
Proposed Response Response Status O

Cl 62 SC 62.5.5.3.2 P347 L38 # 489
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 8.1.3.2. Performance monitoring messages"
2. Replace the text of the section with word "stet".
Proposed Response Response Status O

Cl 62 SC 62.5.5.3.2 P348 L26 # 230
Zion Shohet Infineon
Comment Type E Comment Status D
wrong reference to tables 12-14
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.5.5.3.2 P348 L4 # 229
Zion Shohet Infineon
Comment Type E Comment Status D
inset here table 62-31
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.5.5.3.3 P348 L28 # 490
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 8.1.3.3. Configuration messages"
2. Replace the text of the section with word "stet".
Proposed Response Response Status O

Cl 62 SC 62.5.5.3.4 P354 L1 # 493
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 8.1.3.4. Control messages"
2. Replace the text of the section with word "stet".
Proposed Response Response Status O

Cl 62 SC 62.5.5.3.4 P354 L7 # 232
Zion Shohet Infineon
Comment Type E Comment Status D
insert table 62-37 here.
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.5.6.1 P357 L3 # 233
Zion Shohet Infineon
Comment Type E Comment Status D
change "table 62-31" to "figure 62-31"
SuggestedRemedy
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 62 SC 62.5.6.1 P357-358 L1 # 494
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

Change the title to "Reference 1-2 section 9.1. Link state and timing diagram"

Proposed Response Response Status O

CI 62 SC 62.5.6.1.4.1 P339 L31, 33, 48 # 475
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Modified Reference 1-2 section 6.4.2.1.3.1. Start-up power back-off"
2. Change "TBD" in line 33 to "sub-clause 62.5.8.2.1.2"
3. Change "...regionally specific and should be as specified in section TBD" in line 48 to "... regionally specific. The standardized values are specified in Reference 1-1 section 71.3.1.1, and Reference 3-1 section 8.2.7.1"

Proposed Response Response Status O

CI 62 SC 62.5.6.1.4.1 P339 L39, 42 # 223
Zion Shohet Infineon

Comment Type E Comment Status D

the functions are confusing. rephrase them clearly.

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.5.6.1.4.1 P339 L53 # 224
Zion Shohet Infineon

Comment Type E Comment Status D

add "see note 1" after the last sentence "... of the loop".

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.5.6.1.4.1 P340 L1, 4, 9, 1 # 476
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Missing references and TBDs.

SuggestedRemedy

1. Change "TBD" in line 1 to "0.0018*sqrt(fc)"
2. Change "section TBD" in line 4 to "sub-clause 62.5.4.1.1"
3. Change "Table TBD" in line 9 to "section 62.5.8.2.1.2"
4. Change "...comply with Reference 3-1 section 8.2.7.1"

Proposed Response Response Status O

CI 62 SC 62.5.6.1.4.2 P340 L16 # 477
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Modified Reference 1-2 section 6.4.2.1.3.2. Steady-state PSD shaping"

Proposed Response Response Status O

CI 62 SC 62.5.6.1.4.2 P340 L30, 32 # 225
Zion Shohet Infineon

Comment Type E Comment Status D

the functions are confusing. Rephrase them clearly.

SuggestedRemedy

Proposed Response Response Status O

CI 62 SC 62.5.6.2 P359 L16 # 495
Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

Change the title to "Reference 1-2 section 9.2. Link transmission parameters"

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

CI 62 SC 62.5.6.2.1 P359 L 18 # 496

Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

Change the title to "Reference 1-2 section 9.2.1. Set of transmission parameters"

Proposed Response Response Status O

CI 62 SC 62.5.6.2.2 P360 L 49 # 497

Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 9.2.2. Transmission parameters modification"
2. Change the text of this section and subsections to "stet"

Proposed Response Response Status O

CI 62 SC 62.5.6.3.1 P363 L 6 # 498

Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 9.3.1. Functional diagram"
2. Change the text of this section and subsections to "stet"

Proposed Response Response Status O

CI 62 SC 62.5.6.3.2 P363 L 50 # 499

Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 9.3.2. Control signals"
2. Change the text of this section and subsections to "stet"

Proposed Response Response Status O

CI 62 SC 62.5.6.3.3 P364 L 24 # 500

Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 9.3.3. Flags and indicators"
2. Change the text of this section and subsections to "stet"

Proposed Response Response Status O

CI 62 SC 62.5.6.3.4 P364 L 43 # 501

Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 9.3.4. Transmit signals and timers"
2. Change the text of this section and subsections to "stet"

Proposed Response Response Status O

CI 62 SC 62.5.6.4 P365 L 50 # 502

Vladimir Oksman Broadcom

Comment Type E Comment Status D

Change to a Referenced section.

SuggestedRemedy

1. Change the title to "Reference 1-2 section 9.3.5. VTU-O state machine"
2. Change the text of this section and subsections to "stet"

Proposed Response Response Status O

CI 62 SC 62.5.6.4 P366 L 39, 43 # 234

Zion Shohet Infineon

Comment Type E Comment Status D

change "figure 17" to "figure 62-31"

SuggestedRemedy

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 62 SC 62.5.6.5 P370 L1 # 503
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 9.3.6. VTU-R state machine"
2. Change the text of this section and subsections to "stet"
Proposed Response Response Status O

Cl 62 SC 62.5.6.6 P373 L20 # 504
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 9.3.7. Two-step activation"
2. Change the text of this section and subsections to "stet"
Proposed Response Response Status O

Cl 62 SC 62.5.6.6 P373 L27, 29, 30 # 235
Zion Shohet Infineon
Comment Type E Comment Status D
incorrect references.
SuggestedRemedy
Proposed Response Response Status O

Cl 62 SC 62.5.7.3.3.1 P348 L36 # 491
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 8.1.3.3.1. Parameter setting messages"
2. Replace the text of the section with word "stet".
Proposed Response Response Status O

Cl 62 SC 62.5.7.3.3.1 P353 L3,4 # 231
Zion Shohet Infineon
Comment Type E Comment Status D
note 2 is not relevant. delete it.
SuggestedRemedy

Proposed Response Response Status O

Cl 62 SC 62.5.7.3.3.2 P353 L33 # 492
Vladimir Oksman Broadcom
Comment Type E Comment Status D
Change to a Referenced section.
SuggestedRemedy
1. Change the title to "Reference 1-2 section 8.1.3.3.2. Trigger messages"
2. Replace the text of the section with word "stet".
Proposed Response Response Status O

Cl 63 SC P L # 159
Simon, Scott Cisco Systems, Inc.
Comment Type E Comment Status D
Since Ethernet MACs send "frames" and the Copper PMAs also send "frames" that transport the "Ethernet frames" we have a nomenclature name space ambiguity.
SuggestedRemedy
I think we need to decide on a better terminology. Perhaps refer to the "PMA frames" as "blocks," "parcels," "clumps," "lumps," "bales," or anything else TBD by the TF. Too bad "packet is taken".
Proposed Response Response Status O

Cl 63 SC 63.2 P542 L10 # 400
Jackson, Stephen Hatteras Networks
Comment Type E Comment Status D
"the copper networks"
SuggestedRemedy
needs claification, maybe say "public loop plants" like in the preceding paragraph
Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl 63 SC 63.2 P542 L 56 # 423
Artman, Doug Texas Instruments

Comment Type E Comment Status D

The sentence beginning with "The copper category" is confusing. I'm not sure what is trying to be said there. Is the intent to inform the reader that the type of coppers pairs over which this service is intended identical to those being used in the access network?

SuggestedRemedy

These copper pairs are identical to those currently used in the access network according to ANSI, ETSI and ITU-T standards.

Proposed Response Response Status O

Cl 63 SC 63.2.2 P542 L 2330 # 172
Gustafsson, Jonas Ericsson

Comment Type E Comment Status D

The objective in this subclause is no equal to the ones described for 2Pass-TL.

SuggestedRemedy

Synchronize with objectives stated in subclause 63.1.1.2

Proposed Response Response Status O

Cl 63 SC 63.2.2 P542 L 28 # 426
Artman, Doug Texas Instruments

Comment Type E Comment Status D

The word operating is misspelled.

SuggestedRemedy

correct spelling

Proposed Response Response Status O

Cl 63 SC 63.2.2 (e) P542 L 29 # 401
Jackson, Stephen Hatteras Networks

Comment Type E Comment Status D

figure "6" should be "5"

SuggestedRemedy

change to "5"

Proposed Response Response Status O

Cl 63 SC 63.2.4.1.1 P543 L 4 # 427
Artman, Doug Texas Instruments

Comment Type E Comment Status D

The acronyms STU-C and STU-R are not defined previously.

SuggestedRemedy

Editor should appropriately define these acronyms or use more generic terms.

Proposed Response Response Status O

Cl 63 SC 63.2.4.1.3 P543 L 23 # 428
Artman, Doug Texas Instruments

Comment Type E Comment Status D

The acronym OC-TC is not defined or referenced in Figure 63-2.

SuggestedRemedy

Editor should appropriately define this entity.

Proposed Response Response Status O

Cl 63 SC 63.2.4.2 P543 L 41 # 404
Jackson, Stephen Hatteras Networks

Comment Type E Comment Status D

Data mode may use any of several levels of TC.

SuggestedRemedy

Strike last sentence in (c)

Proposed Response Response Status O

Cl 63 SC 63.2.4.2 P543 L 43 # 402
Jackson, Stephen Hatteras Networks

Comment Type E Comment Status D

Since IEEE is creating its own bonding (loop aggregation) spec, the G991.2 PMD 4-wire mode is not relevant to this standard.

SuggestedRemedy

Strike sentence.

Proposed Response Response Status O

P802.3ah Draft 1.0 Comments

Cl **63** *SC* **63.3.1.2** *P***544** *L* **32** # **405**
 Jackson, Stephen Hatteras Networks
Comment Type **E** *Comment Status* **D**
 isn't the correct formula:
 $2(n*64 + i*8)$ kbps
 ?
SuggestedRemedy
 verify
Proposed Response *Response Status* **O**

Cl **63** *SC* **63.3.1.3** *P***544** *L* **47** # **431**
 Artman, Doug Texas Instruments
Comment Type **E** *Comment Status* **D**
 There is a reference to a non-existent section (63.2.1.2)
SuggestedRemedy
 Subclause editor should clarify the reference and what is intended.
Proposed Response *Response Status* **O**

Cl **63** *SC* **63.3.1.3** *P***544** *L* **48** # **406**
 Jackson, Stephen Hatteras Networks
Comment Type **E** *Comment Status* **D**
 4 wire mode is out-of-scope due to the 802.3ah bonding mechanism
SuggestedRemedy
 strike comments
Proposed Response *Response Status* **O**

Cl **63** *SC* **63.3.14.4.1.2** *P***491** *L* **29** # **509**
 Frazier, Howard Dominet Systems
Comment Type **E** *Comment Status* **D**
 IEEE Style manual limits us to 5 levels of indenture, e.g. 63.3.14.4.1
SuggestedRemedy
 Renumber subclauses using limit of 5 levels of indenture.
Proposed Response *Response Status* **O**

Cl **63** *SC* **Table 63-1** *P***547** *L* **42** # **403**
 Jackson, Stephen Hatteras Networks
Comment Type **E** *Comment Status* **D**
 T1E1.4 has acted to approve 32 TC-PAM and to study 64 and 128 TC-PAM; letter to this effect sent to ITU-T SG14/Q4.
SuggestedRemedy
 Add necessary data to this chart to reference expanded constellations.
Proposed Response *Response Status* **O**