Cl **00** *SC* *P* *L* **#** **513**

802.3ak Task Force

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

Comment Type: TR
Clause: 54
SubClause: 54.6
Page #: 28
Line #: 8
Comment: Time values reported in Table 54-5 are not   specified in pS but in UI.
Proposed Remedy: Either report times in pS (therefore
being consitent with Figure 54-6) or change
columns 1,3,5,7 headers from "Time (pS)" to
"Time (UI)".

Resolution: Accept, using UI nomenclature.

From Dan Dove:

PG 7/43 Line 40 Change "Clause 48, 53 and 54, refers" to "Clauses 48, 53 and
54, refer".

ACCEPT

PG 8/43 Line 36 the word "manufacturer" is underlined... I don't think it
was supposed to be.

ACCEPT

PG 13/43 Line 41 "19GBASE-CX4" becomes "10GBASE-CX4".

ACCEPT

PG 14/43 Line 30 add a comma after "Clause 53"

Withdraw

PG 15/43 Line 19 add a comma and space after "Clause 53".

Accept, added space

PG 19/43 Figure 54-2 There is a black line under TP4 that I can't figure has
any meaning. A thick black line.

ACCEPT

PG 21/43 Line 34 delete the words "by setting...1.0.0,"

ACCEPT

PG 21/43 Line 36 change "device is" to "device must be".

ACCEPT

PG 21/43 Line 53 Change "ONE otherwise" to "ONE. Otherwise"

ACCEPT, put comma in.

PG 22/43 Line 4 Change "ONE otherwise" to "ONE. Otherwise"

ACCEPT, put comma in.

PG 22/43 Line 9 Change "ONE otherwise" to "ONE. Otherwise"

ACCEPT, put comma in.

PG 22/43 Line 48 Change "low swing" to "low-swing"

ACCEPT

PG 23/43 Line 6 Change "operate up to..54.8." to "operate on twinaxial
cables up to 15m in length, as described in 54.8."

ACCEPT

PG 23/43 Line 14 Do a global search for "transmiter" and change to
"transmitter". Be sure to keep caps on those words that require them.

ACCEPT

PG 24/43 Line 20 Figure 54-3 the capacitor is bunged up and signal shield is
partially dashed, partially solid.

ACCEPT

PG 25/43 Lines 3,23 "Transmiter" again.

ACCEPT

TYPE: TR/technical required T/technical E/editorial   COMMENT STATUS: D/dispatched A/accepted R/rejected   SORT ORDER: Clause, Page, Line, Subclause   Page 1 of 37
RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
Cl **00**   *SC*

PG 27/43 Line4-6 Change "Figure 54--6--" and "Figure 54--6--" to "Figure 54-6 and Figure 54-5"

ACCEPT

PG 27/43 Line 7 Change ". All transmitters... SHALL be disabled" to "while all other transmitters are disabled" to remove the shall statement.

ACCEPT

PG 27/43 Line39 Figure 54-6 the lower limit should have a slope at time zero. The lower axis should be in UI. Change the title from "..at MDI.." to "..at TP2.." Add the Transition time lines to the figure.

ACCEPT

PG 28/43 Table 54-5 Change "Time(ps)" to "Time(UI)" on four columns.

ACCEPT

PG 29/43 Line 49 "transmiter" again.

ACCEPT

PG 30/43 Line 8 Change "between ports" to "between network ports"

ACCEPT

From Ze'ev,

Comment Type: (TR)
Clause: 54
SubClause: 8.5
Page #: 34
Line #:
Comment:
There seems to be a discrepancy between equations 54.10, 54.11 and figure 54-10.
In the figure itself I think the label of ELFEXT and MDELFEXT are crossed (MDELFEXT should be larger than ELFEXT hence the loss should be smaller therefore it should appear higher in the figure).

A. Regarding ELEFEXT In order for the equation to fit the figure we should have:

$\text{ELEFEXT}(f) \geq 17 - 21.85 \cdot \log(f/2000)$
(2000 in the denominator of the log rather than 50).

I've taken 4 points off figure 54-10 and they seem to fit well the above equation

f	ELFEXT (figure)	17-21.85*log(f/2000)
100	45.5	45.4
200	39	
	39	
1000	23.5	23.6
2000	17	
	17	

B. Regarding MDELFEXT in order for the equation to fit the figure we should have:

$\text{MDELEFEXT}(f) \geq 21 - 21.85 \cdot \log(f/2000)$
(2000 in the denominator of the log rather than 50 & 21 instead of 15).

f	MDELFEXT (figure)	21-21.85*log(f/2000)
100	49.5	49.4
200	43	
	42.9	
1000	28	27.6
2000	21	
	21	

Equation 54.11 as is makes little sense:
for f=50 they yield positive results while for f=500 they yield negative results. For instance
MDELFEXT (100) = 8.4225
MDELFEXT (200) = 1.8450
MDELFEXT(1000) = -13.4275
MDELFEXT(2000) = -20.0050
Implying that @2GHz you have 20 dB gain.

Proposed Remedy:
Replace equation 54.10 by:
$\text{ELEFEXT}(f) \geq 21 - 21.85 \cdot \log(f/2000)$

Replace equation 54.11 by:
$\text{MDELEFEXT}(f) \geq 17 - 21.85 \cdot \log(f/2000)$

Regards,
Ze'ev

TYPE: TR/technical required T/technical E/editorial   COMMENT STATUS: D/dispatched A/accepted R/rejected   SORT ORDER: Clause, Page, Line, Subclause   Page 2 of 37
RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Cl **00**   *SC*

ACCEPT in Principle: f/50 changed to f/2000

From Peter Bradshaw
Table 54-4, line 26 change minimum to maximum

ACCEPT

SuggestedRemedy
See comment

Proposed Response   *Response Status* **C**
ACCEPT.

No opposition to resolution.

Cl **00**   *SC* **0**   *P*   *L*   *#* **342**
Grow, Robert   Intel

Comment Type   **E**   *Comment Status* **A**   *E342*
IEEE Std 802.3ae uses ""interoperability"" and P802.3ak uses ""inter operability"" in multiple places.

SuggestedRemedy
Search and replace to be consistent.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **00**   *SC* **0**   *P* **2**   *L* **8**   *#* **320**
Grow, Robert   Intel

Comment Type   **E**   *Comment Status* **A**   *E320*
Though used in published standards, somewhere this EDITORIAL NOTE is inconsistent. There are four instructions described and used, not three.

SuggestedRemedy
Change ""Three"" to ""Four"".

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **00**   *SC* **0**   *P* **3**   *L* **1**   *#* **56**
Booth, Brad   Intel

Comment Type   **E**   *Comment Status* **A**   *E056*
Line numbering is always on the left side of the page. Are you using right and left pages, or did you just place the number always on the left side?

SuggestedRemedy
This is only an issue if you're not using right and left paging throughout the document which is preferred by the IEEE editors.

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

We are using right and left paging throughout the document, therfore no change is made per suggested remedy.

Cl **00**   *SC* **0**   *P* **7**   *L* **33**   *#* **380**
Thompson, Geoff   Nortel

Comment Type   **E**   *Comment Status* **A**   *E380*
thru line 35 ""f)"" should not be in underscored and ""h)"" should be in underscore.

SuggestedRemedy
Remove underscore from ""f)"" Add underscore to ""h)""

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

Will delete all unchanged list items and mark as recommended.

Cl **00**   *SC* **1.4**   *P*   *L*   *#* **14**
Marris, Arthur   Cadence

Comment Type   **E**   *Comment Status* **A**   *TR386*
Need to add definitions for ""FR4"" and ""Twinaxial""

SuggestedRemedy
Add definitions for ""FR4"" and ""Twinaxial""

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

The occurance of "FR4" has been deleted, see comment #386
See comment #82 for usage of twinaxial.

Cl **00**   *SC* **Cover**   *P* **1**   *L* **21**   **#** **319**
Grow, Robert   Intel

Comment Type   **E**   *Comment Status* **A**   *E319*
The entire document isn't changes, there are two parts: the changes to the published standard, and a new clause.

SuggestedRemedy
Cut the two lines beginning ""Changes to ..."" and replace the heading on page two with the cut lines.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **00**   *SC* **Front matter**   *P* **2**   *L* **3**   **#** **379**
Thompson, Geoff   Nortel

Comment Type   **E**   *Comment Status* **A**   *E379*
The text: ""This amendment is based on the current edition of IEEE Std 802.3-2002 plus changes incorporated by IEEE 802.3ae-2002."" ..doesn't (or shouldn't) descibe the document being changed.

SuggestedRemedy
Perhaps: ""This amendment is based on the current revision of IEEE Std 802.3-2002 plus changes incorporated by all subsequently approved projects. These are IEEE 802.3ae-2002, P802.3af and P802.3aj (both expected to be approved in 2003). Changes dues to P802.3ah are expected to follow rather than lead this project. (also on page 46)

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

Change first sentence of first paragraph to: "This amendment is based on the current revision of IEEE Std 802.3-2002 plus changes incorporated by all subsequently approved projects. These are IEEE 802.3ae-2002, P802.3af and P802.3aj (both expected to be approved in 2003). Changes dues to P802.3ah are expected to follow rather than lead this project."

For page 14 modification see comment #333.

Cl **44**   *SC* **1.1**   *P* **7**   *L* **11**   **#** **2**
Marris, Arthur   Cadence

Comment Type   **E**   *Comment Status* **A**   *E002*
Missing comma

SuggestedRemedy
Add comma 10GBASE-CX4, 10GBASE-LR,

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **44**   *SC* **1.1**   *P* **7**   *L* **11**   **#** **15**
Daines, Kevin   World Wide Packets

Comment Type   **E**   *Comment Status* **A**   *E015*
Need comma.

SuggestedRemedy
Add comma so line reads ""...10GBASE-CX4, 10GBASE-LX4...""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **44**   *SC* **1.1**   *P* **7**   *L* **11**   **#** **72**
Plunkett, Timothy   NSWCDD

Comment Type   **E**   *Comment Status* **A**   *E072*
comma needed after ""10GBASE-CX4""

SuggestedRemedy
add comma in specified location

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **44**   *SC* **1.1**   *P* **7**   *L* **11**   **#** **322**
Grow, Robert   Intel

Comment Type   **E**   *Comment Status* **A**   *E322*
Typos

SuggestedRemedy
Missing comma after ""10GBASE-CX4"". The change marks are strange, ""10GBASE-CX4,"" should be underlined and nothing else.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **44**   *SC* **1.1**   *P* **7**   *L* **8**   **#** **321**
Grow, Robert   Intel

Comment Type   **E**   *Comment Status* **A**   *E321*
Only paragraph 1 is changed.

SuggestedRemedy
Delete ""& 2"" from the instruction, delete the second paragraph of text.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **44** *SC* **1.2** *P* **7** *L* **21** **#** **323**
Grow, Robert Intel

Comment Type **E** *Comment Status* **A** *E323*
Missing space. (I assume you have replaced the Heading3 style instead of applying that style.)

SuggestedRemedy
Insert space following section number.

Proposed Response *Response Status* **C**
ACCEPT.

CI **44** *SC* **1.2** *P* **7** *L* **21** **#** **92**
Dove, Daniel hp ProCurve Networki

Comment Type **E** *Comment Status* **A** *E092*
The word Objectives is mashed against the section number

SuggestedRemedy
add a space between them.

Proposed Response *Response Status* **C**
ACCEPT.

CI **44** *SC* **1.2** *P* **7** *L* **21** **#** **57**
Booth, Brad Intel

Comment Type **E** *Comment Status* **A** *E057*
Missing space between heading number and heading title.

SuggestedRemedy
Re-apply ""heading3"" to the text.

Proposed Response *Response Status* **C**
ACCEPT.

CI **44** *SC* **1.2** *P* **7** *L* **33** **#** **93**
Dove, Daniel hp ProCurve Networki

Comment Type **E** *Comment Status* **A** *TR058*
suggested wording change

SuggestedRemedy
change ""operation over 15m"" to ""operation over distances up to 15m""

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

See comment #58

CI **44** *SC* **1.3** *P* **7** *L* **41** **#** **59**
Booth, Brad Intel

Comment Type **E** *Comment Status* **R** *E059*
Bullet point on its own is confusing.

SuggestedRemedy
Include referring text for clarity.

Proposed Response *Response Status* **C**
REJECT.

Instructions say to change just this one item.

CI **44** *SC* **1.3** *P* **7** *L* **41** **#** **325**
Grow, Robert Intel

Comment Type **E** *Comment Status* **A** *E325*
The change marking is not correct

SuggestedRemedy
The additions start with the comma, not LX4, therefore no strikeout/insertion is required for LX4.

Proposed Response *Response Status* **C**
ACCEPT.

CI **44** *SC* **1.4.4** *P* **7** *L* **46** **#** **326**
Grow, Robert Intel

Comment Type **E** *Comment Status* **A** *E326*
The change marking though technically correct is unconventional.

SuggestedRemedy
Add an underlined "", 53"" after ""Clause 48"", strike through ""53"", and add an underlined ""54"". Alternatively, change to read ""The term 10GBASE-X in Clause 48, refers to ..."" by striking out the ""s"" in Clauses up through ""Clause 53"".

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

See comment #300

Cl **44**   *SC* **1.4.4**   *P* **7**   *L* **48**   *#* **300**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E326*
extra word

SuggestedRemedy
Replace ""Clauses 48, 53 and Clause 54"" with ""Clauses 48, 53 and 54""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **44**   *SC* **1.4.4**   *P* **7**   *L* **48**   *#* **60**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E060*
Inserted reference for Clauses 53 and 54 are not required. 10GBASE-X is only specified in Clause 48, and not in Clauses 53 and 54.

SuggestedRemedy
Remove change and return the text to original form.

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

The strikethru and underscore were incorrect. A reference to Clasue 54 and 10GBASE-CX4 is added to keep consistancy.

Cl **44**   *SC* **1.4.4**   *P* **7**   *L* **48**   *#* **16**
Daines, Kevin   World Wide Packets

Comment Type **E**   *Comment Status* **A**   *E326*
Extra word.

SuggestedRemedy
Change to read ""...Clauses 48, 53 and 54...""

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #300

Cl **44**   *SC* **1.4.4**   *P* **8**   *L* **10**   *#* **447**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *E447*
""Cu"" is an implementation choice. Silver plated steel wires could be compliant too.

SuggestedRemedy
Replace ""Cu"" with ""electrical"".

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **44**   *SC* **3**   *P* **9**   *L* **26**   *#* **391**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *TR290*
A reader might assume that ""bit time"" referred to the signalling period (320 ps). We should make it clear that it doesn't.

SuggestedRemedy
Add to 44.3:   NOTE - ""Bit time"" refers to the duration of one bit as transferred to and from the MAC (approximately 100ps in this case).

Proposed Response   *Response Status* **C**
REJECT.

See comment #290.

Cl **44**   *SC* **3**   *P* **9**   *L* **27**   *#* **61**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E061*
Information was provided in Clause 44 to determine the cable delay. There is no equivalent equation (44-1) or table (Table 44-3) to reference.

SuggestedRemedy
Provide information to determine cable delay.

Proposed Response   *Response Status* **C**
ACCEPT.

Paragraph #2 of Clause 44.3 will be modified to:
"Equation (44-1) specifies the calculation of bit time per meter of fiber or electrical cable based upon the parameter n, which represents the ratio of the speed of light in the fiber or electrical cable to the speed of light in a vacuum. The value of n should be available from the fiber or electrical cable manufacturer, but if no value is known then a conservative dela estimate can be calculated using a default value of n = 0.66. The speed of light in a vacuum is c = 3 x 10^8 m/s. Table 44-3 can be used to convert fiber or electrical cable delay values specified relative to the speed of light or in nanoseconds per meter."

TYPE: TR/technical required T/technical E/editorial   COMMENT STATUS: D/dispatched A/accepted R/rejected   SORT ORDER: Clause, Page, Line, Subclause
RESPONSE STATUS: O/open   W/written C/closed   U/unsatisfied Z/withdrawn

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Cl **44**   *SC* **3**

Cl **44**   *SC* **Table 44-1**   *P* **8**   *L* **5**   # **301**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **R**   *E301*
Lines/boundaries missing from table

SuggestedRemedy
This applies to numerous tables throughout the draft. If a full list of the tables are necessary, I'll provide it in a comment against D4.1

Proposed Response   *Response Status* **C**
REJECT.

Do not see any missing lines, perhaps this is a screen resolution issue. Printed copies appear fine.

Cl **44**   *SC* **Table 44-2**   *P* **9**   *L* **21**   # **327**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E327*
Inconsistent ordering of PMDs

SuggestedRemedy
Move CX4 PMD row below LX4 PMD row for consistency with all other table to which a CX4 row has been added.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **45**   *SC* **0**   *P* **10**   *L* **4**   # **328**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E328*
Font problem.

SuggestedRemedy
Incorrect font for Clause title.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **45**   *SC* **2.1.6.1**   *P* **10**   *L* **13**   # **330**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *TR001*
The second line of the paragraph needs to be edited for the new status bit (1.8.9).

SuggestedRemedy
Change to read ""are advertised in bits 9 and 7 through 0"", marked with appropriate underscore of ""9 and "".

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

See comment #1

Cl **45**   *SC* **2.1.6.1**   *P* **10**   *L* **17**   # **125**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *E125*
Typo?

SuggestedRemedy
The term ""MMD"" is used twice in this line. Should it say ""PMD"", or is it simply an acronym I'm not familiar with?

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

Acronym you're not familiar with. (MMD = MDIO Manageable Device see 44.1.4.3)

Cl **45**   *SC* **2.1.6.1**   *P* **10**   *L* **29**   # **115**
Jonathan Thatcher   WWP

Comment Type **E**   *Comment Status* **A**   *TR329*
There is no insufficient reason to skip PHY types 1000 to 1011 in order to have this be 1100.

SuggestedRemedy
Just go in order and have this be 1000.

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

See comment #329

Cl **45**   *SC* **2.1.7.6**   *P* **11**   *L* **21**   # **392**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *TR001*
Wrong bit

SuggestedRemedy
1.8.9 (twice)

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

See comment #1

Cl **45**   *SC* **2.1.7.6**   *P* **11**   *L* **21**   # **393**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *E393*
This doesn't make much sense: ""PMA/PMD is able to support a 10GBASE-CX4 PMA/PMD type."" It doesn't support, it must be - or comply - or perform as.

SuggestedRemedy
Change to something like ""... able to act as a 10GBASE-CX4 PMA/PMD."" or ""... able to comply to the 10GBASE-CX4 PMA/PMD type."" (twice).

Proposed Response   *Response Status* **C**
REJECT.

Will keep description the same as existing.

Cl **45**   *SC* **2.1.7.6**   *P* **11**   *L* **21**   # **126**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *TR001*
Typo?

SuggestedRemedy
""bit 1.8.4"" is mentioned twice in lines 21-22. Shouldn't it say ""bit 1.8.9""?

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

See comment #1

Cl **45**   *SC* **2.1.7.6**   *P* **11**   *L* **22**   # **76**
Cravens, George   Mindspeed

Comment Type **E**   *Comment Status* **A**   *TR001*
PMD type bit is described in text as bit 1.8.4, but in the subclause header and in Table 45-8, it is shown as bit 1.8.9

SuggestedRemedy
Fix text to call out bit 1.8.9 not 1.8.4

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

See comment #1

Cl **45**   *SC* **2.1.7.6**   *P* **11**   *L* **22-24**   # **489**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *TR001*
This section has two references to bit 1.8.4 that should have been references to bit 1.8.9.

SuggestedRemedy
In section 45.2.1.7.6, change the two references to bit 1.8.4 to bit 1.8.9.

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

See comment #1

Cl **45**   *SC* **2.1.7.6**   *P* **11**   *L* **22-24**   # **501**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *TR001*
This section has two references to bit 1.8.4 that should have been references to bit 1.8.9.

SuggestedRemedy
In section 45.2.1.7.6, change the two references to bit 1.8.4 to bit 1.8.9.

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

See comment #1

Cl **45**　　*SC* **2.1.8.5**　　　　*P* **174**　　*L*　　　# **512**
Peter Bradshaw

Comment Type　**E**　　*Comment Status*　**A**　　　　　*E512*
3rd paragraph only specifies multiple wavelength PMDs. Also 45.2.1.9 as well.

SuggestedRemedy
Change to ".. wavelength or lane PMDs ..."

Proposed Response　　　*Response Status*　**C**
ACCEPT.

Editor to do global search and replace in Clause 45.2.1

Cl **48**　　*SC* **1**　　　　*P* **12**　　*L* **14**　　# **3**
Marris, Arthur　　　　　　　　　Cadence

Comment Type　**E**　　*Comment Status*　**A**　　　　　*E003*
The text ""PMD"" is missing

SuggestedRemedy
Change ""10GBASE-CX4 described"" to ""10GBASE-CX4 PMD described""

Proposed Response　　　*Response Status*　**C**
ACCEPT.

Cl **48**　　*SC* **1**　　　　*P* **12**　　*L* **15**　　# **94**
Dove, Daniel　　　　　　　　　hp ProCurve Networki

Comment Type　**E**　　*Comment Status*　**A**　　　　　*E094*
missing word

SuggestedRemedy
change ""CX4 described"" to ""CX4 PMD described""

Proposed Response　　　*Response Status*　**C**
ACCEPT.

Cl **48**　　*SC* **1.2**　　　　*P* **12**　　*L* **35**　　# **65**
Booth, Brad　　　　　　　　　Intel

Comment Type　**E**　　*Comment Status*　**A**　　　　　*T286*
In Figure 48-1, remove the CX4 portion of the diagram as it is not required.

SuggestedRemedy
Change the ""10GBASE-LX4"" to read ""10GBASE-LX4 or 10GBASE-CX4"".

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

See comment #286

Cl **48**　　*SC* **1.2**　　　　*P* **12**　　*L* **38**　　# **4**
Marris, Arthur　　　　　　　　　Cadence

Comment Type　**E**　　*Comment Status*　**A**　　　　　*T286*
Figure 48-1 could be improved

SuggestedRemedy
Delete text ""To 10GBASE-X PHY"" Delete dashed line surrounding 10GBASE-CX4 Narrow the two boxes containing ""10GBASE-X PCS"" and ""10GBASE-X PMA"" Move 10GBASE-LX4 PMD box so that it aligns with the left hand sides of these boxes

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

See comment #286

Cl **48**　　*SC* **1.3.3**　　　　*P* **13**　　*L* **1**　　# **109**
Dallesasse, John　　　　　　　　Molex Incorporated

Comment Type　**E**　　*Comment Status*　**A**　　　　　*E109*
Line 1 text ""10GBASE-X supports the PMD sublayer and MDI specified in Clause 53."" should be changed to ""10GBASE-X supports the PMD sublayer and MDI specified in Clauses 53 and 54.""

SuggestedRemedy
See above.

Proposed Response　　　*Response Status*　**C**
ACCEPT.

Cl **48**　　*SC* **1.3.3**　　　　*P* **13**　　*L* **1**　　# **394**
Dawe, Piers　　　　　　　　　Agilent

Comment Type　**E**　　*Comment Status*　**A**　　　　　*E109*
Can higher layers support lower ones? Missing reference to 54.

SuggestedRemedy
Get rid of the sentence. Consider copying language from e.g. 34.1.2.

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

See comment #109

Cl **48**　　*SC* **1.3.3**　　　　　*P* **13**　　*L* **1**　　　# **66**
Booth, Brad　　　　　　　　　Intel

Comment Type **E**　　*Comment Status* **A**　　　　　　*E109*
Missing reference to Clause 54.

SuggestedRemedy
Change to read ""... specified in Clause 53 and Clause 54.""

Proposed Response　　*Response Status* **C**
ACCEPT.

See comment #109

Cl **48**　　*SC* **2.6.1.3**　　　　*P* **13**　　*L* **3**　　# **366**
Lynskey, Eric　　　　　　　　UNH-IOL

Comment Type **E**　　*Comment Status* **A**　　　　　　*E366*
This is against 48.2.6.1.3, on page 302 of 802.3ae-2002. The variable tx_lane<3:0> contains a reference to Clause 53.

SuggestedRemedy
Add text to reference Clause 54. Change end of sentence to read ""...as specified in Clause 53 or 54.""

Proposed Response　　*Response Status* **C**
ACCEPT.

Cl **48**　　*SC* **2.6.1.3**　　　　*P* **13**　　*L* **3**　　# **362**
Lynskey, Eric　　　　　　　　UNH-IOL

Comment Type **E**　　*Comment Status* **A**　　　　　　*E362*
This is against 48.2.6.1.3, on page 302 of 802.3ae-2002. The variable tx_lane<3:0> contains a reference to Clause 53.

SuggestedRemedy
Add text to reference Clause 54. Change end of sentence to read ""...as specified in Clause 53 or 54.""

Proposed Response　　*Response Status* **C**
ACCEPT.

Cl **48**　　*SC* **2.6.1.3**　　　　*P* **13**　　*L* **3**　　# **363**
Lynskey, Eric　　　　　　　　UNH-IOL

Comment Type **E**　　*Comment Status* **A**　　　　　　*E363*
This is against 48.2.6.1.3, on page 301 of 802.3ae-2002. The variable rx_lane<3:0> contains a reference to Clause 53.

SuggestedRemedy
Add text to reference Clause 54. Change end of sentence to read ""...as specified in Clause 53 or 54.""

Proposed Response　　*Response Status* **C**
ACCEPT.

Cl **48**　　*SC* **2.6.1.3**　　　　*P* **13**　　*L* **3**　　# **367**
Lynskey, Eric　　　　　　　　UNH-IOL

Comment Type **E**　　*Comment Status* **A**　　　　　　*E367*
This is against 48.2.6.1.3, on page 301 of 802.3ae-2002. The variable rx_lane<3:0> contains a reference to Clause 53.

SuggestedRemedy
Add text to reference Clause 54. Change end of sentence to read ""...as specified in Clause 53 or 54.""

Proposed Response　　*Response Status* **C**
ACCEPT.

Cl **48**　　*SC* **2.6.1.6**　　　　*P* **13**　　*L* **3**　　# **368**
Lynskey, Eric　　　　　　　　UNH-IOL

Comment Type **E**　　*Comment Status* **A**　　　　　　*E368*
This comment is against 48.2.6.1.6 on page 304 of 802.3ae-2002. The PMD_SIGNAL.indicate(signal_detect<3:0>) variable only references Clause 53.

SuggestedRemedy
Add text to reference Clause 54. Change end of sentence to read ""...as specified in Clause 53 or 54.""

Proposed Response　　*Response Status* **C**
ACCEPT.

TYPE: TR/technical required T/technical E/editorial   COMMENT STATUS: D/dispatched A/accepted R/rejected   SORT ORDER: Clause, Page, Line, Subclause　　Page 10 of 37
RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Cl **48**　　　*SC* **2.6.1.6**

Cl **48**   *SC* **2.6.1.6**   *P* **13**   *L* **3**   **#** **364**
Lynskey, Eric   UNH-IOL

Comment Type **E**   *Comment Status* **A**   *E364*
This comment is against 48.2.6.1.6 on page 304 of 802.3ae-2002. The PMD_SIGNAL.indicate(signal_detect<3:0>) variable only references Clause 53.

SuggestedRemedy
Add text to reference Clause 54. Change end of sentence to read ""...as specified in Clause 53 or 54.""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **48**   *SC* **3.1**   *P* **13**   *L* **3**   **#** **365**
Lynskey, Eric   UNH-IOL

Comment Type **E**   *Comment Status* **A**   *E365*
This comment is against 48.3.1 on page 310 of 802.3ae-2002. The note here mentions Clause 47 and 53.

SuggestedRemedy
Change text to ""jitter specifications of Clauses 47, 53, and 54.""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **48**   *SC* **3.1**   *P* **13**   *L* **3**   **#** **369**
Lynskey, Eric   UNH-IOL

Comment Type **E**   *Comment Status* **A**   *E369*
This comment is against 48.3.1 on page 310 of 802.3ae-2002. The note here mentions Clause 47 and 53.

SuggestedRemedy
Change text to ""jitter specifications of Clauses 47, 53, and 54.""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **48**   *SC* **Figure 48-1**   *P* **12**   *L* **20**   **#** **332**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *T286*
There are a number of minor problems with this figure. This instruction should be ""Replace Figure 48-1 with:"" or alternative leave as ""Change"" and add what has changed below the instruction (see IEEE Std 802.3ae-2002, p. 16). The architectural Figure is not consistent for PCS clauses, but we don't need to invent a new one. (Clause 36 has a PCS--PMD stack for each PMD type, Clause 52 only has WAN and LAN stacks.) I recommend consistency within a speed of operation (e.g., more like Clause 52).

SuggestedRemedy
1. The background of the PCS and PMA boxes should be diagonal lines, not shading (probably a platform translation problem of FrameMaker). 2. Use the model of clause 52 and only have one stack, delete ""To 10GBASE-X PHY"", name at bottom becomes ""10GBASE-X"". (If the TF chooses two stacks, do it like clause 36.)

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

See comment #286

Cl **54**   *SC* **0**   *P* **14**   *L* **3**   **#** **333**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E333*
The EDITORIAL NOTE is not necessary since clause 54 is an addition.

SuggestedRemedy
Delete EDITORIAL NOTE (both paragraphs).

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **1**   *P* **16**   *L* **1**   **#** **397**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *E397*
Not IEEE reference model. This is a typo in 53.1; I think 52.1 has it right.

SuggestedRemedy
Change to ""ISO/IEC Open System Interconnection (OSI) reference model."".

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **1**   *P* **16**   *L* **24**   **#** 5
Marris, Arthur   Cadence

Comment Type   **E**   *Comment Status* **R**   *TR287*
   Figure 54–1 tidy up

SuggestedRemedy
   Move ""PMA = PHYSICAL MEDIUM ATTACHMENT"" so that it is above ""PMD =
   PHYSICAL MEDIUM DEPENDENT""

Proposed Response   *Response Status* **C**
   REJECT.

      See comment #335

Cl **54**   *SC* **1**   *P* **16**   *L* **26**   **#** 67
Booth, Brad   Intel

Comment Type   **E**   *Comment Status* **R**   *TR287*
   Minor editorial, but the columns listing the acronyms in Figure 54-1 should have 3
   definitions each.

SuggestedRemedy
   Fix as per comment.

Proposed Response   *Response Status* **C**
   REJECT.

      See comment #335

Cl **54**   *SC* **1.1**   *P* **16**   *L* **31**   **#** 335
Grow, Robert   Intel

Comment Type   **E**   *Comment Status* **A**   *TR287*
   With the exception of the ""-CX4"" instead of ""-LX4"" this subclause is identical to 53.1.1.
   It is neither necessary nor prudent to include this duplicate information.

SuggestedRemedy
   Rewrite 54.1.1 to reference clause 53.1.1. ""The 10GBASE-CX4 PMD uses the same PMD
   interface as 10GBASE-LX4. The following PMD service primitives are defined in 53.1.1:
   PMD_UNITDATA.request PMD_UNITDATA.indicate PMD_SIGNAL.indicate"" Delete the
   54.1.2 through 54.1.4.3.

Proposed Response   *Response Status* **C**
   ACCEPT.

Cl **54**   *SC* **1.1**   *P* **16**   *L* **34**   **#** 127
Martin, David   Nortel Networks

Comment Type   **E**   *Comment Status* **A**   *E127*
   Typo.

SuggestedRemedy
   Replace ""and do not imply"" with ""and does not imply""

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

      See comment #335

Cl **54**   *SC* **1.1**   *P* **16**   *L* **34**   **#** 398
Dawe, Piers   Agilent

Comment Type   **E**   *Comment Status* **A**   *E398*
   Grammar: ""The service interface ... do not imply""

SuggestedRemedy
   Change to ""The service interface for this PMD is described in an abstract manner which
   does not imply ..."".

Proposed Response   *Response Status* **C**
   ACCEPT.

      See comment #335

Cl **54**   *SC* **1.1**   *P* **16**   *L* **34**   **#** 375
Ewen, John   JDS Uniphase

Comment Type   **E**   *Comment Status* **A**   *E375*
   Subject / verb mismatch

SuggestedRemedy
   Replace: ... and do not imply ... with ... and does not imply ...

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

      See comment #335

Cl **54**   *SC* **1.1**   *P* **16**   *L* **35**   # **6**
Marris, Arthur   Cadence

Comment Type **E**   *Comment Status* **A**   *E006*
grammar

SuggestedRemedy
Replace ""do"" with ""does""

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

See comment #335

Cl **54**   *SC* **1.1**   *P* **16**   *L* **35**   # **77**
Cravens, George   Mindspeed

Comment Type **E**   *Comment Status* **A**   *E077*
Minor grammatical change: Current sentence: The service interface for this PMD is described in an abstract manner and do not imply any particular implementation. Change ""and do not"" to ""and does not""

SuggestedRemedy
Change second sentence to: The service interface for this PMD is described in an abstract manner and does not imply any particular implementation.

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

See comment #335

Cl **54**   *SC* **1.2**   *P* **16**   *L* **52**   # **407**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *E407*
Syntax

SuggestedRemedy
Remove the space before ""("" here, in 54.1.3.1 and in 54.1.4.1.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #335

Cl **54**   *SC* **1.2.3**   *P* **17**   *L* **12**   # **336**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **R**   *TR287*
Grammar problem.

SuggestedRemedy
Change ""stream"" to ""streams"".

Proposed Response   *Response Status* **C**
REJECT.

See comment #335

Cl **54**   *SC* **1.3.2**   *P* **17**   *L* **30**   # **7**
Marris, Arthur   Cadence

Comment Type **E**   *Comment Status* **R**   *TR287*
""stream"" should be plural

SuggestedRemedy
""The PMD continuously sends four parallel streams of bits to the PMA corresponding to the signals received from the MDI.""

Proposed Response   *Response Status* **C**
REJECT.

See comment #335

Cl **54**   *SC* **1.3.2**   *P* **17**   *L* **30**   # **337**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **R**   *TR287*
Grammar problem.

SuggestedRemedy
Change ""stream"" to ""streams"".

Proposed Response   *Response Status* **C**
REJECT.

See comment #335

Cl **54**   *SC* **1.3.3**   *P* **17**   *L* **35**   # **400**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *TR287*
This subclause has no value: it says as much itself. There is no need for such unhelpful material.

SuggestedRemedy
Delete it, and 54.1.4.3.

Proposed Response   *Response Status* **C**
REJECT.

See comment #335

Cl **54**   *SC* **10.1.2**   *P* **40**   *L* **5**   # **318**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E318*
wrong tense

SuggestedRemedy
Replace ""define"" with ""defined""

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #374

Cl **54**   *SC* **10.1.2**   *P* **40**   *L* **5**   # **134**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *E134*
Typo

SuggestedRemedy
Replace ""as define in 54.7.3.6"" with ""as defined in 54.7.3.6""

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

See comment #374

Cl **54**   *SC* **11**   *P* **40**   *L* **10**   # **444**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *E444*
Subclause title doesn't tell the whole story.

SuggestedRemedy
Please change to ""Environmental and safety"".

Proposed Response   *Response Status* **C**
REJECT.

Clauses 51.9, 52.10, 53.10, etc. all label this Clause title as "Environment Specifications".

Cl **54**   *SC* **11**   *P* **40**   *L* **13**   # **87**
Cobb, Terry   Avaya

Comment Type **E**   *Comment Status* **A**   *E087*
Is ISO/IEC 11801:1995 the correct reference for environmental requirements?

SuggestedRemedy
Add correct reference.

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

Will change 54.11 to: "All equipment subject to this clause shall conform to the applicable requirements of 14.7.".

Cl **54**   *SC* **11**   *P* **40**   *L* **15**   # **445**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *E445*
Do you want to recommend anything about labelling?

SuggestedRemedy
?

Proposed Response   *Response Status* **C**
REJECT.

No recommendation.

Cl **54**   *SC* **12**   *P* **40**   *L* **16**   **#** **38**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E038*
PICS should start on their own page.

SuggestedRemedy
Insert page break before 54-12.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **12.1**   *P* **40**   *L* **22**   **#** **460**
Thaler, Pat   Agilent Technologies

Comment Type **E**   *Comment Status* **A**   *E460*
Dan, I think you are being rather pessimistic here. I expect you can say IEEE Std 802.3ak-200x as we will probably get this approved before the end of 2009. :^)

SuggestedRemedy
There should be an editor's note that the appropriate year should be entered before publication. Otherwise, it might slip through and get published with this still saying 20xx.

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

Editor's note exists on first page of Clause 54, page 14

Cl **54**   *SC* **12.2.2**   *P* **41**   *L* **25**   **#** **39**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **R**   *E039*
Unnecessary period after ""Clause 54"".

SuggestedRemedy
Remove.

Proposed Response   *Response Status* **C**
REJECT.

Period is a remanent of framemaker cross-reference.

Cl **54**   *SC* **12.4**   *P* **42**   *L* **22**   **#** **45**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E045*
Remove value/comment for TP1 and TP4 as information is redundant.

SuggestedRemedy
Fix as per comment.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **12.4**   *P* **42**   *L* **7**   **#** **12**
Marris, Arthur   Cadence

Comment Type **E**   *Comment Status* **A**   *E012*
Comment/value field empty

SuggestedRemedy
Put something in the comment/value field or delete this PICS item

Proposed Response   *Response Status* **C**
ACCEPT.

Item to be deleted

Cl **54**   *SC* **12.4**   *P* **42**   *L* **9**   **#** **446**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *T041*
Asking if a PMD integrates Clause 46 XGMII seems a bit odd: it can never be directly attached (in terms of signal path) to one.

SuggestedRemedy
Delete MC1, tweak main text if necessary.

Proposed Response   *Response Status* **C**
REJECT.

See comment #41

Cl **54**   *SC* **12.4**   *P* **43**   *L* **41**   **#** **46**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E046*
No[] not required for a mandatory PICS.

SuggestedRemedy
Remove No[].

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**　　*SC* **12.4.1**　　　　　*P* **43**　　　*L* **43**　　　# **358**
Grow, Robert　　　　　　　　　　Intel

Comment Type **E**　　*Comment Status* **A**　　　　　*E358*
　PF16 through PF18 are management functions.

SuggestedRemedy
　Move to MF, relable and renumber MF PICS items.

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

　PF16 is a mandatory function this PMD must have. PF16 status will be changed from
　"MD:M" to "M".

　See comment #412 for PF17 resolution

　PF18 is a mandatory function this PMD must have and therefore has to stay.

Cl **54**　　*SC* **12.4.1**　　　　　*P* **43**　　　*L* **50**　　　# **359**
Grow, Robert　　　　　　　　　　Intel

Comment Type **E**　　*Comment Status* **R**　　　　　*E359*
　The loopback function described in 54.6.9 is per an MDIO bit, therefore should be MD:M.

SuggestedRemedy
　Change Status to MD:M.

Proposed Response　　*Response Status* **C**
　REJECT.

　The loopback function is mandatory, its control is optionally done through an MDIO register
　bit.

Cl **54**　　*SC* **12.4.2**　　　　　*P* **44**　　　*L* **19**　　　# **48**
Booth, Brad　　　　　　　　　　Intel

Comment Type **E**　　*Comment Status* **A**　　　　　*E048*
　Remove No[] from MF5.

SuggestedRemedy
　As above.

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

　See comment #361

Cl **54**　　*SC* **12.4.2**　　　　　*P* **44**　　　*L* **19**　　　# **361**
Grow, Robert　　　　　　　　　　Intel

Comment Type **E**　　*Comment Status* **A**　　　　　*E361*
　Though basically copied from clause 53, these PICs items are not internally consistent or
　consistent with the style of other clauses. All management functions are dependent on
　MDIO. I found nothing in the text that indicates that any of the capabilities (e.g. lane by
　lane transmit disable) are optional.

SuggestedRemedy
　Delete MF1, it is covered by *MD. Change all Status entries in MF PICS to MD:M Change
　all Support entries to Yes[ ], NA[ ].

Proposed Response　　*Response Status* **C**
　ACCEPT.

Cl **54**　　*SC* **12.4.2**　　　　　*P* **44**　　　*L* **22**　　　# **49**
Booth, Brad　　　　　　　　　　Intel

Comment Type **E**　　*Comment Status* **A**　　　　　*E049*
　Remove NA[] from MF6.

SuggestedRemedy
　As per above.

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

　See comment #361

Cl **54**　　*SC* **12.4.2**　　　　　*P* **44**　　　*L* **25**　　　# **50**
Booth, Brad　　　　　　　　　　Intel

Comment Type **E**　　*Comment Status* **A**　　　　　*E050*
　Remove No[] and NA[] from mandatory MF7.

SuggestedRemedy
　As per above.

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

　See comment #361

Cl **54**   *SC* **12.4.2**   *P* **44**   *L* **28**   # **51**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E051*
Add N/A[] to MF8, MF9 and MF10.

SuggestedRemedy
As per above.

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

See comment #361

Cl **54**   *SC* **12.4.2**   *P* **44**   *L* **6**   # **47**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E047*
Insert No[] value.

SuggestedRemedy
As per comment.

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

See comment #361

Cl **54**   *SC* **12.4.3**   *P* **45**   *L* **28**   # **52**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E052*
DS13 appears to have an extra carriage return in the Value/Comment field.

SuggestedRemedy
Delete so row format matches others.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **12.4.4**   *P* **46**   *L* **20**   # **53**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E053*
RS8 appears to have an extra carriage return in the Value/Comment field.

SuggestedRemedy
Delete so row format matches others.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **12.4.5**   *P* **46**   *L* **29**   # **54**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E054*
CA1 is optional; therefore, it requires a No[].

SuggestedRemedy
Add a No[].

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **2**   *P* **18**   *L* **7.5**   # **69**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **R**   *TR287*
Capitalize the C for clause.

SuggestedRemedy
Fix as per comment.

Proposed Response   *Response Status* **C**
REJECT.

See comment #335

Cl **54**   *SC* **3**   *P* **18**   *L* **11**   # **408**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *TR401*
This subclause seems out of sequence.

SuggestedRemedy
Should it come in or just after 54.6.1?

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

See comment #401

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Page, Line, Subclause   Page 17 of 37
RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
Cl **54**   *SC* **3**

Cl **54**   *SC* **3**   *P* **18**   *L* **13**   # **289**

Frazier, Howard   SW

Comment Type **E**   *Comment Status* **A**   *TR401*

Missing word: ""PMD"".

SuggestedRemedy

Insert ""PMD"" after 10GBASE-CX4 in the sentence starting at line 13 in the current draft.

Proposed Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #401

Cl **54**   *SC* **4**   *P* **18**   *L* **46**   # **403**

Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *TR290*

A reader might assume that ""bit time"" referred to the signalling period (320 ps). We should make it clear that it doesn't. This is a repeat of a comment against 44.3.

SuggestedRemedy

Add: NOTE - ""Bit time"" refers to the duration of one bit as transferred to and from the MAC (100ps in this case).

Proposed Response   *Response Status* **C**

REJECT.

See comment #290. Bit time is defined in Clause 1.4.50

Cl **54**   *SC* **5**   *P* **19**   *L* **31**   # **404**

Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *E338*

Might as well complete the table.

SuggestedRemedy

Include bit 1.8.9 in the table.

Proposed Response   *Response Status* **C**

REJECT.

See comment #338

Cl **54**   *SC* **5**   *P* **19**   *L* **5**   # **338**

Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E338*

With the exception of the table references in the text, this subclause is identical to 53.3. It is neither necessary nor prudent to include this duplicate information.

SuggestedRemedy

Change all references to ""Table 54-3"" to ""Table53-2"" and references to ""Table 54-4"" to ""Table 53-3"". Delete Tables 54-3 and 54-4. Search for references to 54.5 and replace as appropriate with 53.3.

Proposed Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

This subclause changed to:
"The 10GBASE-CX4 PMD uses the same MDIO function mapping as 10GBASE-LX4 as defined in Clause 53.3"

Cl **54**   *SC* **6.1**   *P* **20**   *L* **Figure 54-**   # **466**

Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E466*

The "+" and "-" notations used here to designate the two signals comprising a differential pair differ from the notation used in Table 54-2 which uses "<p>" and "<n>". This or a similar inconsistency occurs in a number of places and needs to be uniformly addressed.

SuggestedRemedy

Select and use consistent notation. I suggest the "+" and "-" notation.

Proposed Response   *Response Status* **C**

ACCEPT.

"<p>" and "<n>" will be used to match the style in Clause 47.

Cl **54**   *SC* **6.2**   *P* **20**   *L* **44**   # **356**

Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *T292*

Though ""electrical"" is the most likely implementation approach for bit streams, it is implementers choice as to how the logic is implemented.

SuggestedRemedy

Line 44 -- delete ""electronic"" Line 52 -- delete ""electronic"" Page 43, PF5 -- delete ""electrical"" from the second line of Value

Proposed Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #292

TYPE: TR/technical required T/technical E/editorial   COMMENT STATUS: D/dispatched A/accepted R/rejected   SORT ORDER: Clause, Page, Line, Subclause   Page 18 of 37

RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn   *Cl* **54**   *SC* **6.2**

Cl **54**   *SC* **6.3**   *P* **21**   *L* **4**   **#** **340**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *T409*
The paragraph basically describes what happens on loopback.

SuggestedRemedy
Either move it ot 54.6.9 or rewrite in terms of remote TX signals to local RX signals.

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

See comment #409

Cl **54**   *SC* **6.4**   *P* **21**   *L* **32**   **#** **468**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E468*
The unit "mVppd" appears to be used in Table 54-5 without definition. I infer that it means "milliVolts peak-peak differential".

SuggestedRemedy
Define the term or change the table so that "mVpp" can be used as is the case in Table 54-6.

Proposed Response   *Response Status* **C**
ACCEPT.

Also change mVppd to mVpp differential in paragraphs above table.

Cl **54**   *SC* **6.4**   *P* **21**   *L* **42**   **#** **412**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **R**   *E412*
There should be something in here about a compliant signal (both electrically and in coding), and a get out: behaviour unspecified in all other conditions.

SuggestedRemedy
Per comment.

Proposed Response   *Response Status* **C**
REJECT.

Signal detect is only meant to detect the presence of a signal, not whether there is a CX4, compliant, coded signal.

Cl **54**   *SC* **6.4**   *P* **21**   *L* **42**   **#** **411**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *E411*
You want very rapid signal detect yet less rapid de-assert. Opposite to what I would expe

SuggestedRemedy
Please explain.

Proposed Response   *Response Status* **C**
ACCEPT.

Explanation: We want to know if there is a signal present as soon as possible so the link can be brought up as soon as possible. We do not want to drop the link for any random noise event.

Cl **54**   *SC* **6.7**   *P* **22**   *L* **12**   **#** **128**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *E128*
Font.

SuggestedRemedy
Correct font size for ""absolute output voltage limits""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **6.8**   *P* **22**   *L* **24**   **#** **129**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *E129*
Font.

SuggestedRemedy
Correct font size for ""absolute output voltage limits""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54** *SC* **6.8** *P* **22** *L* **29** *#* **71**
Booth, Brad Intel

Comment Type **E** *Comment Status* **R** *E071*
Missing the word ""optional"" in front of PMD_transmit_disable_n.

SuggestedRemedy
Fix as per comment.

Proposed Response *Response Status* **C**
REJECT.

PMD_transmit_disable_n is not optional.

Cl **54** *SC* **6.9** *P* **22** *L* **34** *#* **20**
Booth, Brad Intel

Comment Type **E** *Comment Status* **A** *E020*
Wording is redundant.

SuggestedRemedy
Remove ""as specified in this subclause"".

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **6.9** *P* **22** *L* **35** *#* **89**
Joergensen, Thomas Vitesse Semiconducto

Comment Type **E** *Comment Status* **A** *E089*
Loopback mode might be selected through either MDIO management or other means, so there should not be any reference to how loopback mode is selected in the subclause.

SuggestedRemedy
Remove the words ""by setting the loopback control bit of 1.0.0""

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **7** *P* **26** *L* **24** *#* **435**
Dawe, Piers Agilent

Comment Type **E** *Comment Status* **R** *TR297*
Too many graphs. Other editorial.

SuggestedRemedy
Combine the three ""return loss"" graphs. Remove gratuitous trailing zeroes in y axes. Remove ""E+0"" in y axes. Remove grey borders. Start f axis below, not at, 100 MHz. Commas are forbidden in numbers. It would be nice to have shading to show which side of each mask is compliant. Figures are orphans; each needs a mention in the text.

Proposed Response *Response Status* **C**
REJECT.

Graphs stay and will be labeled informative and will be black & white, see comment #297

Cl **54** *SC* **7.1** *P* **23** *L* **16** *#* **309**
Brown, Benjamin Independent

Comment Type **E** *Comment Status* **A** *E309*
In ""inter operability"" 2 words?

SuggestedRemedy
Replace ""inter operability"" with ""interoperability"". This results in a hyphen at the end of this line. This comment also applies to 54.7.4.3, page 29, line 43

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **7.1** *P* **23** *L* **16** *#* **454**
Thaler, Pat Agilent Technologies

Comment Type **E** *Comment Status* **A** *E454*
When you have a two word adjective, it should be hyphenated. For instance, ""low swing AC coupled differential interface"" should be ""low-swing AC-coupled differential interface"" Another example is ""peak to peak"" in 54.7.3.4 which should be ""peak-to-peak"". By the way, it is not clear why the first sentence of this subclause says ""differenti output amplitude"" when describing the maximum while the next sentence describing the minimum for the same signal characteristic calls it ""differential peak to peak output voltage"". Both are obviously peak-to-peak voltages as the units are mVp-p. I suggest you use the same name for the characteristic in both sentences.

SuggestedRemedy
Check for unhypenated adjectives and correct. Also, make the wording of 54.7.3.4 more consistant.

Proposed Response *Response Status* **C**
ACCEPT.

CI **54**   *SC* **7.2**   *P* **23**   *L* **23**   **#** **305**

Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E305*

Wrong word usage

SuggestedRemedy

Replace ""is comprised of"" with ""comprises""

Proposed Response   *Response Status* **C**

ACCEPT.

CI **54**   *SC* **7.2**   *P* **23**   *L* **25**   **#** **21**

Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *T082*

Bad wording.

SuggestedRemedy

Remove ""approximately"". Scan specification for other occurrences.

Proposed Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #82

CI **54**   *SC* **7.2**   *P* **23**   *L* **25**   **#** **455**

Thaler, Pat   Agilent Technologies

Comment Type **E**   *Comment Status* **A**   *T082*

This is admittedly a picky comment re: ""standard twinaxial cables"" There is no standard
for the cables called out in 54.8. If there is a cable standard that satisfies the requirements
of 54.8, then it should at least be called out in a note. If there is not and you simply mean
""common"", then please delete ""standard"" as it is confusing to use this casual sense of
the word in a standard.

SuggestedRemedy

See comment

Proposed Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #82

CI **54**   *SC* **7.2**   *P* **23**   *L* **25**   **#** **74**

Alan Flatman   LAN Technologies

Comment Type **E**   *Comment Status* **A**   *T082*

cannot say "up to approximately 15m"

SuggestedRemedy

delete "approximately"

Proposed Response   *Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #82

CI **54**   *SC* **7.3**   *P* **24**   *L* **11**   **#** **415**

Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *E415*

Standard terminology

SuggestedRemedy

Replace ""Baud rate tolerance"" with ""Signaling speed (range)"" here and in 54.7.3.3
(twice), replace ""Baud period"" there with ""unit interval"". Also for receiver, 54.7.4.

Proposed Response   *Response Status* **C**

ACCEPT.

CI **54**   *SC* **7.3.1**   *P* **24**   *L* **37**   **#** **344**

Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E344*

Awkward language.

SuggestedRemedy

Change first line to read: ""The test fixture of Figure 54-3, or its functional equivalent, ...""

Proposed Response   *Response Status* **C**

ACCEPT.

CI **54**   *SC* **7.3.1**   *P* **24**   *L* **38**   **#** **22**

Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E022*

Use caps for abbreviation.

SuggestedRemedy

Change ""pcb"" to ""PCB"".

Proposed Response   *Response Status* **C**

ACCEPT.

See comment #386

Cl **54**   *SC* **7.3.4**   *P* **25**   *L* **33**   *#* **75**
Alan Flatman   LAN Technologies

Comment Type **E**   *Comment Status* **A**   *E075*
Title "Amplitude and Swing" duplicates same meaning

SuggestedRemedy
rename "Output Amplitude"

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **7.3.4**   *P* **25**   *L* **39**   *#* **296**
Frazier, Howard   SW

Comment Type **E**   *Comment Status* **A**   *E296*
D.C. vs DC. Both appear in the same sentence.

SuggestedRemedy
Use DC, not D.C.

Proposed Response   *Response Status* **C**
ACCEPT.

Will also search entire text and make all consistant

Cl **54**   *SC* **7.3.4**   *P* **25**   *L* **Figure 54-**   *#* **470**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E470*
The designations "<N>" and "<P>" for the two signals comprising a differential pair are inconsistent with the designations used elsewhere in the Clause 54.

SuggestedRemedy
Select and use consistent notation. I suggest the "+" and "-" notation.

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

<p> and <n> adopted

Cl **54**   *SC* **7.3.5**   *P* **26**   *L* **10**   *#* **86**
Cobb, Terry   Avaya

Comment Type **E**   *Comment Status* **A**   *TR297*
In the past this is usually a table.

SuggestedRemedy
Move the return loss to a table. This would need to be changed throughout the document. In addition the picture should not be included. It is best not to show a requirement with both a picture and equation or table. As in a previous comment, the table is generally used for specifing the requirement. It also makes the PIC easier.

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

All graphic pictures will be labeled informative, see comment #297

Cl **54**   *SC* **7.3.5**   *P* **26**   *L* **24**   *#* **24**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **R**   *TR297*
Figure 54-5, -6, -7, -9, -10, -11, and -12 appear to be imported graphics. These graphics need to be in editable FrameMaker format.

SuggestedRemedy
Eliminate imported graphics.

Proposed Response   *Response Status* **C**
REJECT.

IEEE Standards Style Manual Section 16 allows for imported graphics. Files for each graphic will be maintained per Section 16. See comment #297

Cl **54**   *SC* **7.3.5**   *P* **26**   *L* **3**   *#* **88**
Joergensen, Thomas   Vitesse Semiconducto

Comment Type **E**   *Comment Status* **A**   *E088*
It is not the output impedance of the driver, but the output impedance of the total circuit including PCB and connector.

SuggestedRemedy
Change the word ""driver"" to ""output"" in line 3

Proposed Response   *Response Status* **C**
ACCEPT.

"driver" canged to "transmitter" throught document

Cl **54** *SC* **7.3.5** *P* **26** *L* **4** *#* **83**
Cobb, Terry Avaya

Comment Type **E** *Comment Status* **A** *E083*
Correct text.

SuggestedRemedy
Use ""shall be greater than or equal to"" (note: this needs to be changed throughtout the document) and on the following line change output impedance to return loss.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **7.3.5** *P* **26** *L* **6** *#* **502**
Steve Dreyer Intel

Comment Type **E** *Comment Status* **A** *E502*
Looks like missing period at end of line 6.

SuggestedRemedy
Add period to end of line 6.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **7.3.5** *P* **26** *L* **6** *#* **490**
Steve Dreyer Intel

Comment Type **E** *Comment Status* **A** *E490*
Looks like missing period at end of line 6.

SuggestedRemedy
Add period to end of line 6.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **7.3.5** *P* **26** *L* **9** *#* **23**
Booth, Brad Intel

Comment Type **E** *Comment Status* **A** *E023*
Equation format is incorrect.

SuggestedRemedy
Apply the ""Equation"" format to each equation. Numbering should be ""(54-1)"" and should have no ""Eq."" and no ""a"" or ""b"". Apply to all equations in the specification.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **7.3.5** *P* **28** *L* **38** *#* **118**
Jonathan Thatcher WWP

Comment Type **E** *Comment Status* **A** *E118*
Remove the note to the editors note box below. IEEE has no permanent means to ensure availability of this file.

SuggestedRemedy
Put note in editors box, which will be removed "prior to publication." Or, fix the IEEE process and rules so that we have permanent, managed repository for such files.

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

Removed note.

Cl **54** *SC* **7.3.6** *P* **26** *L* **53** *#* **25**
Booth, Brad Intel

Comment Type **E** *Comment Status* **A** *E025*
Leading in text for list should be on the same page as the list.

SuggestedRemedy
Fix as per comment.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **7.3.6** *P* **27** *L* **1** *#* **26**
Booth, Brad Intel

Comment Type **E** *Comment Status* **A** *E026*
Numbered list does not appear to be an IEEE numbered list.

SuggestedRemedy
Apply IEEE format to the numbered list.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54**　　　*SC* **7.3.6**　　　　　　*P* **27**　　　*L* **13**　　　# `377`
Ewen, John　　　　　　　　　JDS Uniphase

Comment Type **E**　　　*Comment Status* **R**　　　　　*E377*

Definition of Vnorm and Normalized Waveform include factors of 2 and 0.5 that cancel. This seems redundant.

SuggestedRemedy

Define Vnorm and Normalized Waveform as: Vnorm = (Vlowp - Vlowm) Normalized Waveform = (Original Waveform - Voff) / Vnorm

Proposed Response　　　*Response Status* **C**

REJECT.

The factor of 0.5 represents the nominal pre-emphasis value chosen by the study group. This number can change from other comments to this draft and might therefore change here.

Cl **54**　　　*SC* **7.3.6**　　　　　　*P* **27**　　　*L* **19**　　　# `421`
Dawe, Piers　　　　　　　　　Agilent

Comment Type **E**　　　*Comment Status* **A**　　　　　*TR418*

Don't use figures for normative specs.

SuggestedRemedy

Replace ""defined in Figure 54–6 and the piece-wise linear interpolation between the points in Table 54–7."" with ""defined in piece-wise linear format by Table 54–7 and illustrated by Figure 54–6.""

Proposed Response　　　*Response Status* **C**

ACCEPT IN PRINCIPLE.

See comment #418

Cl **54**　　　*SC* **7.3.6**　　　　　　*P* **27**　　　*L* **3**　　　# `420`
Dawe, Piers　　　　　　　　　Agilent

Comment Type **E**　　　*Comment Status* **A**　　　　　*E420*

""continuous baud""?

SuggestedRemedy

successive unit intervals?

Proposed Response　　　*Response Status* **C**

ACCEPT.

Cl **54**　　　*SC* **7.3.6**　　　　　　*P* **27**　　　*L* **3**　　　# `419`
Dawe, Piers　　　　　　　　　Agilent

Comment Type **E**　　　*Comment Status* **A**　　　　　*E419*

The two levels are not called +1 and -1

SuggestedRemedy

1 and 0, or one and zero.

Proposed Response　　　*Response Status* **C**

ACCEPT.

Cl **54**　　　*SC* **7.3.6**　　　　　　*P* **27**　　　*L* **45**　　　# `422`
Dawe, Piers　　　　　　　　　Agilent

Comment Type **E**　　　*Comment Status* **R**　　　　　*TR418*

The pattern is 10 UI or 3200 ps long. The table and figure should extend over the same range.

SuggestedRemedy

Delete last row of table, truncate figure at 3200 ps or continue template to chosen end of time axis.

Proposed Response　　　*Response Status* **C**

REJECT.

See comment #418

Cl **54**　　　*SC* **7.3.6**　　　　　　*P* **28**　　　*L* **Table 54-7**　　# `471`
Bill Quackenbush　　　　　　　Cisco Systems, Inc.

Comment Type **E**　　　*Comment Status* **A**　　　　　*E471*

The table contains 4 sets of duplicated number pairs whose purpose is unclear and that do not seen to be needed.

SuggestedRemedy

Remove the duplicate upper limit number pairs for 283 and 709 ps and the duplicate lower limit number pairs for 1883 and 2309 ps.

Proposed Response　　　*Response Status* **C**

ACCEPT IN PRINCIPLE.

Will pare down duplicated numbers to pairs to indicate a straight line.

TYPE: TR/technical required T/technical E/editorial　　COMMENT STATUS: D/dispatched A/accepted R/rejected　　SORT ORDER: Clause, Page, Line, Subclause　　Page 24 of 37
RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Cl **54**　　　*SC* **7.3.6**

Cl **54**   *SC* **7.3.7**   *P* **28**   *L* **47**   **#** **307**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E307*
Wrong tense

SuggestedRemedy
Replace ""increase"" with ""increased""

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

Last sentence deleted.

Cl **54**   *SC* **7.3.8**   *P* **28**   *L* **47**   **#** **130**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *E130*
Typo

SuggestedRemedy
Replace ""and increase EMI"" with ""and increased EMI""

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

Last sentence deleted.

Cl **54**   *SC* **7.3.8**   *P* **28**   *L* **51**   **#** **371**
Healey, Adam   Agere Systems

Comment Type **E**   *Comment Status* **A**   *E371*
Should have a reference the test methodology, 54.10.1.

SuggestedRemedy
Add sentence, ""Transmit jitter test requirements are specified in section 54.10.1.""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **7.3.8**   *P* **29**   *L* **4**   **#** **348**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *TR298*
Obsolete Editor's Note.

SuggestedRemedy
Remove the note.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #298

Cl **54**   *SC* **7.3.8**   *P* **29**   *L* **4**   **#** **73**
Plunkett, Timothy   NSWCDD

Comment Type **E**   *Comment Status* **A**   *TR298*
Editor's note is not outdated

SuggestedRemedy
Editor's note should be updated or removed.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #298

Cl **54**   *SC* **7.3.8**   *P* **29**   *L* **4**   **#** **17**
Daines, Kevin   World Wide Packets

Comment Type **E**   *Comment Status* **A**   *TR298*
This editror's note should have been removed, shouldn't it?

SuggestedRemedy
Remove editor's note if transmit jitter allocation was resolved in Dallas.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #298

CI **54**   *SC* **7.3.8**   *P* **29**   *L* **4**   **#** **114**
Say-Otun, Sabit   Next Level Communic

Comment Type **E**   *Comment Status* **A**   *TR298*
Editor's note still references March 2003 meeting

SuggestedRemedy
delete edirot's note

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #298

CI **54**   *SC* **7.3.8**   *P* **29**   *L* **4**   **#** **27**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *TR298*
Editor's note should be resolved.

SuggestedRemedy
Remove editor's note.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #298

CI **54**   *SC* **7.3.8**   *P* **29**   *L* **4**   **#** **98**
Dove, Daniel   hp ProCurve Networki

Comment Type **E**   *Comment Status* **A**   *TR298*
Editorial note appears obsolete.

SuggestedRemedy
Remove editorial note

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #298

CI **54**   *SC* **7.3.8**   *P* **29**   *L* **4**   **#** **131**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *TR298*
Editor's Note

SuggestedRemedy
The March 2003 plenary has come and gone. Shouldn't this note be removed by now?

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #298

CI **54**   *SC* **7.4**   *P* **29**   *L* **12**   **#** **85**
Cobb, Terry   Avaya

Comment Type **E**   *Comment Status* **R**   *E085*
Tables are generally used for requirements and the text that follows points to the table. I found this throughout the document.

SuggestedRemedy
Correct usuage in the document to the practice that we have used in the past.

Proposed Response   *Response Status* **C**
REJECT.

Will add wording to indicate this table is informative.

CI **54**   *SC* **7.4**   *P* **29**   *L* **25 (Table**   **#** **472**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E472*
The value of minimum differential return loss in the table does not reflect the frequency dependence specified in 54.7.4.5 and is therefore misleading.

SuggestedRemedy
Either show the frequency dependence in the table or removed the parameter from the table.

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

Will make it the same format as the transmitter return loss in table 54-6.

CI **54**   *SC* **7.4.1**   *P* **29**   *L* **33-34**   **#** **473**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E473*
The wording less than precise.

SuggestedRemedy
Change the sentence to "The receiver shall operate with a BER of better than 10^-12 when receiving a compliant transmit signal, as defined in 54.7.3, through a compliant channel as defined in 54.8."

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **7.4.1**   *P* **29**   *L* **35**   **#** **28**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E028*
Extra space between ""in"" and ""54.8.""

SuggestedRemedy
Remove extra space.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **7.4.2**   *P* **29**   *L* **38**   **#** **474**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E474*
The requirement is poorly stated.

SuggestedRemedy
Change the sentence to "A 10GBASE-CX4 receiver shall comply with the requirements of 54.7.4.1 for any Baud rate in the range 3.125 GBd +/- 100 ppm."

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **7.4.2**   *P* **29**   *L* **39**   **#** **29**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E029*
Different font type for +/-100 ppm.

SuggestedRemedy
Change font to match previous text.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **7.4.3**   *P* **29**   *L* **43**   **#** **99**
Dove, Daniel   hp ProCurve Networki

Comment Type **E**   *Comment Status* **A**   *E099*
typo

SuggestedRemedy
add a hyphen between ""inter"" and ""operability"".

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

Will use "interoperability" throughout the document.

CI **54**   *SC* **7.4.3**   *P* **29**   *L* **43**   **#** **132**
Martin, David   Nortel Networks

Comment Type **E**   *Comment Status* **A**   *E099*
Typo

SuggestedRemedy
Replace ""for maximum inter operability"" with ""for maximum interoperability""

Proposed Response   *Response Status* **C**
ACCEPT.

See Comment #99

CI **54**   *SC* **7.4.3**   *P* **29**   *L* **43**   **#** **30**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E099*
Extra space between ""inter"" and ""operability"".

SuggestedRemedy
Change to be ""interoperability"".

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #99

CI **54**   *SC* **7.4.3**   *P* **29**   *L* **48**   # **31**
Booth, Brad   Intel

Comment Type **E**   *Comment Status* **A**   *E031*
Note is not in IEEE Note format.

SuggestedRemedy
Change to be in IEEE Note format.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **7.4.4**   *P* **30**   *L* **4-5**   # **475**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E475*
The second sentence could be clearer.

SuggestedRemedy
Change the second sentence to "Note that these may be greater than the 1600 mVpp maximum differential amplitude specified in 54.7.3.3 due to the actual transmitter output and receiver input impedances."

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **7.4.4**   *P* **30**   *L* **7-8**   # **476**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E476*
The sentence makes little sense as stated and the use of the word "height" seems inappropriate. I infer that the intent was to say that input impedance of a receiver can cause the minimum signal into a receiver to differ from that measured when the receiver is replaced with a 100 Ohm test load.

SuggestedRemedy
Change the sentence beginning in line 7 to "The input impedance of a receiver can cause the minimum signal into a receiver to differ from that measured when the receiver is replaced with a 100 Ohm test load."

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

The 4th sentence will be changed to "... the minimum specified value due to ..."

CI **54**   *SC* **7.4.5**   *P* **30**   *L* **16**   # **91**
Joergensen, Thomas   Vitesse Semiconducto

Comment Type **E**   *Comment Status* **A**   *E091*
The word ""driver"" should be replaced with ""receiver"". In the next sentence the text still refers to the output impedance and not the input impedance.

SuggestedRemedy
Replace line 16 and 17 with: ""...and any off-chip components related to the receiver. This input impedance requirement applies to all valid input levels...""

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

See comment #349

CI **54**   *SC* **7.4.5**   *P* **30**   *L* **17**   # **503**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E503*
Looks like missing period at end of line 17.

SuggestedRemedy
Add period to end of line 17.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #349

CI **54**   *SC* **7.4.5**   *P* **30**   *L* **17**   # **491**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E491*
Looks like missing period at end of line 17.

SuggestedRemedy
Add period to end of line 17.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #349

Cl **54**   *SC* **7.4.5**   *P* **30**   *L* **46**   **# 349**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *TR427*

This section is unnecessarily redundant with the transmit section. For maintenance of the document it is better to specify in one location and reference. It isn't clear that the impedance specifications of the transmitter and reciever are identical after teing transmitted through a conformant channel (including the cabling).

SuggestedRemedy

Replace section and Figure 54-7 with: ""The reciever shall accept a signal generated by a transmitter meeting the output impedance requirements of 54.7.3.5 over a compliant channel (including cable assembly).""

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

See comment #427

Cl **54**   *SC* **7.4.6**   *P* **31**   *L* **32**   **# 311**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E311*
wrong comma placement

SuggestedRemedy

Replace ""54.7.3.8 with any compliant transmit signal, as defined in 54.7.3 through""   with ""54.7.3.8, with any compliant transmit signal as defined in 54.7.3, through""

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

See comment #374

Cl **54**   *SC* **7.4.6**   *P* **31-32**   *L* **1**   **# 504**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E504*

Graphic for Figure 54-8 is on one page, title for that figure is on the next page, that is confusing.

SuggestedRemedy

Put title and graphic for Figure 54-8 on same page.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #374

Cl **54**   *SC* **7.4.6**   *P* **31-32**   *L* **1**   **# 492**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E492*

Graphic for Figure 54-8 is on one page, title for that figure is on the next page, that is confusing.

SuggestedRemedy

Put title and graphic for Figure 54-8 on same page.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #374

Cl **54**   *SC* **8**   *P* **32**   *L* **16 (Table**   **# 478**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *TR386*
"PCBs" is rather non description of this item.

SuggestedRemedy

Change "CBs" to "printed circuit board traces" or "PCB traces".

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

See comment #386

Cl **54**   *SC* **8**   *P* **32**   *L* **17**   **# 429**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *TR386*

Table 54-9 needs an indication of how much random jitter is added by the cable assembly. Surely it's not zero?

SuggestedRemedy

Per comment.

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

See comment #386

Cl **54** *SC* **8** *P* **32** *L* **25** *#* **479**
Bill Quackenbush Cisco Systems, Inc.

Comment Type **E** *Comment Status* **A** *TR386*
The meaning of "eye height" in note "d" is unclear.

SuggestedRemedy
Clarify the note or remove the phrase "eye height" from the note.

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

See comment #386

Cl **54** *SC* **8** *P* **32** *L* **30** *#* **33**
Booth, Brad Intel

Comment Type **E** *Comment Status* **A** *E033*
Table 54-10 has improper line weighting.

SuggestedRemedy
Fix line weights.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **8** *P* **32** *L* **37** *#* **434**
Dawe, Piers Agilent

Comment Type **E** *Comment Status* **R** *E434*
The crosstalk material needs a diagram.

SuggestedRemedy
Add a diagram illustrating the different forms of crosstalk and reflection.

Proposed Response *Response Status* **C**
REJECT.

This is tutorial and is not consistent with other IEEE.

Cl **54** *SC* **8** *P* **32** *L* **46** *#* **133**
Martin, David Nortel Networks

Comment Type **E** *Comment Status* **A** *E133*
Capital letter

SuggestedRemedy
Replace ""of the Jumper cable"" with ""of the jumper cable""

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

Jumper cable will be replaced with cable assembly

Cl **54** *SC* **8** *P* **32** *L* **5** *#* **8**
Marris, Arthur Cadence

Comment Type **E** *Comment Status* **A** *E008*
Delete the redundant word ""approximately""

SuggestedRemedy
Delete the redundant word ""approximately""

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **8** *P* **32** *L* **5** *#* **32**
Booth, Brad Intel

Comment Type **E** *Comment Status* **A** *E032*
Remove the word ""approximately"".

SuggestedRemedy
Fix as per comment.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **8** *P* **32** *L* **7** *#* **428**
Dawe, Piers Agilent

Comment Type **E** *Comment Status* **A** *E428*
""intended as a point-to-point interface of up to approximately 15 m between integrated circuits"" - NOT. You use PCB to connect ICs. Twinax cable, between boxes!

SuggestedRemedy
""between ports"".

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

Will use "between network ports".

CI **54**   *SC* **8**   *P* **32**   *L* **na**   **#** **505**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E505*
Table 54-10 has inconsistent line widths

SuggestedRemedy
Make Table 54-10 line widths consistent.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **8**   *P* **32**   *L* **na**   **#** **493**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E493*
Table 54-10 has inconsistent line widths

SuggestedRemedy
Make Table 54-10 line widths consistent.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **8.2**   *P* **33**   *L* **11**   **#** **480**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E480*
It appears that "connector" at the end of the sentence should be plural.

SuggestedRemedy
Change "connector" to "connectors".

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **8.2**   *P* **33**   *L* **38**   **#** **121**
Jonathan Thatcher   WWP

Comment Type **E**   *Comment Status* **A**   *E121*
Figure 54.-9 is informative.

SuggestedRemedy
Add "(Informative)" to the title of the figure.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **8.3**   *P* **34**   *L* **15**   **#** **482**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E482*
It appears that "connector" at the end of the sentence should be plural.

SuggestedRemedy
Change "connector" to "connectors".

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **8.3**   *P* **34**   *L* **42**   **#** **122**
Jonathan Thatcher   WWP

Comment Type **E**   *Comment Status* **A**   *E122*
Figure 54-10 is informative.

SuggestedRemedy
Add "(Informative)" to the title of the figure.

Proposed Response   *Response Status* **C**
ACCEPT.

CI **54**   *SC* **8.3**   *P* **34**   *L* **6**   **#** **313**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E313*
For commonality with ""2.0 GHz""...

SuggestedRemedy
Replace ""1000 MHz"" with ""1.0 GHz"" both here and on line 14.

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

Will change all "GHz" to their equivalent "MHz".

CI **54**   *SC* **8.4**   *P* **36**   *L* **26**   **#** **123**
Jonathan Thatcher   WWP

Comment Type **E**   *Comment Status* **A**   *E123*
Figure 54.-11 is informative.

SuggestedRemedy
Add "(Informative)" to the title of the figure.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.1**   *P* **34**   *L* **49**   # **11**
Marris, Arthur   Cadence

Comment Type **E**   *Comment Status* **A**   *E011*
Unnecessary ""the""

SuggestedRemedy
Reword ""between the any of the four transmit channels"" to ""between any of the four transmit channels""

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.1**   *P* **34**   *L* **49**   # **483**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E483*
Extra "the".

SuggestedRemedy
Delete "the" from the phrase "loss between the any of the four transmit channels".

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.1**   *P* **34**   *L* **50**   # **314**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E314*
wrong word

SuggestedRemedy
""bit error rate"" should be ""bit error ratio"" but replacing it with ""BER"" would match 54.8.5.1

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.1**   *P* **34**   *L* **51**   # **507**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E507*
Missing colon after "at least".

SuggestedRemedy
Add colon.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.1**   *P* **34**   *L* **51**   # **495**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E495*
Missing colon after "at least".

SuggestedRemedy
Add colon.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.1**   *P* **35**   *L* **6**   # **312**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E312*
no comma needed

SuggestedRemedy
Remove the comma at the end of this line. This comment also applies ti 54.8.5.1, page 37, line 1

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.2**   *P* **35**   *L* **28**   # **81**
Cobb, Terry   Avaya

Comment Type **E**   *Comment Status* **A**   *E081*
MDNEXT is not a sum of the magnitudes.

SuggestedRemedy
Change to a power sum.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.2**   *P* **35**   *L* **37-38**   # **494**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E494*
Lines 37-38 seem confusing, maybe there is some formatting problem. Same issue in section 54.8.5.2.1.

SuggestedRemedy
Fix formatting problem.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.2**   *P* **35**   *L* **37-38**   # **506**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E506*
Lines 37-38 seem confusing, maybe there is some formatting problem. Same issue in section 54.8.5.2.1.

SuggestedRemedy
Fix formatting problem.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.2**   *P* **35**   *L* **51**   # **508**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E508*
Missing colon after "at least".

SuggestedRemedy
Add colon.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.4.2**   *P* **35**   *L* **51**   # **496**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E496*
Missing colon after "at least".

SuggestedRemedy
Add colon.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.5.1**   *P* **36**   *L* **36**   # **509**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E509*
Missing colon after "defined as".

SuggestedRemedy
Add colon

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.5.1**   *P* **36**   *L* **36**   # **497**
Steve Dreyer   Intel

Comment Type **E**   *Comment Status* **A**   *E497*
Missing colon after "defined as".

SuggestedRemedy
Add colon

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **8.5.1**   *P* **36**   *L* **48**   # **19**
Daines, Kevin   World Wide Packets

Comment Type **E**   *Comment Status* **A**   *E019*
This line, introducing an equation, ends with a colon. Most of the preceding lines introducing equations did not.

SuggestedRemedy
Choose one punctuation and harmonize clause.

Proposed Response   *Response Status* **C**
ACCEPT.

Will end with ":"

Cl **54**   *SC* **8.5.2**   *P* **37**   *L* **6**   # **439**
Dawe, Piers   Agilent

Comment Type **E**   *Comment Status* **A**   *E439*
If I've understood this right, this paragraph can be cleaned up.

SuggestedRemedy
Replace first two sentences with: ""Since four duplex channels are used to transfer data between PMDs, the FEXT that is coupled into a data carrying channel will be from the three other channels in the same direction.

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

Will use
"Since four channels are used to transfer data between PMDs, the FEXT that is coupled into a data carrying channel will be from the three other channels in the same direction"

Cl **54** *SC* **8.5.2.1** *P* **37** *L* **21** *#* **440**
Dawe, Piers   Agilent

Comment Type **E** *Comment Status* **A** *E370*
Editorials

SuggestedRemedy
Delete the subclause heading: there is no 54.8.5.2.1 to keep it company. In equation, change PSELFEXT to MDELFEXT.

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

See comment #370

Cl **54** *SC* **8.5.2.1** *P* **37** *L* **21** *#* **370**
Healey, Adam   Agere Systems

Comment Type **E** *Comment Status* **R** *E370*
PSELFEXT is not cited as a cable performance requirement. The intent of this section appears to be to show how MDELFEXT is to be computed. Also the note below equation 54.10 states that NL(f)i is the FEXT loss for pair combination i, but this should read ELFEXT loss (or the attenuation term needs to be factored into Equation 54.10).

SuggestedRemedy
Move contents of 54.8.5.2.1 to 54.8.5.2 and remove subsection. Change PSELFEXT to MDELFEXT and NL(f)i to EL(f)i in equation 54.10 and modify note to read that ""EL(f)i is the ELFEXT loss at frequency f for pair combination i""

Proposed Response *Response Status* **C**
REJECT.

Will make consistant with other 802.3 standards (e.g. 1000BASE-T).

Cl **54** *SC* **8.5.2.1** *P* **37** *L* **21** *#* **315**
Brown, Benjamin   Independent

Comment Type **E** *Comment Status* **A** *E370*
According to the second paragraph in Clause 11 of the IEEE style manual: ""Clauses and subclauses shall be divided into further subclauses only when there is to be more than one subclause. In other words, clauses and subclauses should not be broken down into further subclauses if another subclause of the same level does not exist. For example, Clause 1 shall not have a subclause 1.1 unless there is also a subclause 1.2.

SuggestedRemedy
Remove the header for this subclause and combine with 54.8.5.2 Same comment applies to 54.9.1.1 & 54.10.1

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

See comment #370

Cl **54** *SC* **8.5.2.1** *P* **37** *L* **33** *#* **316**
Brown, Benjamin   Independent

Comment Type **E** *Comment Status* **A** *E316*
While I hardly can even follow this discussion, it seems to me that the definition of NL(f)i is wrong...

SuggestedRemedy
Replace ""FEXT"" with ""ELFEXT""

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **8.6** *P* **38** *L* **30** *#* **35**
Booth, Brad   Intel

Comment Type **E** *Comment Status* **A** *E035*
I believe that the ""class"" should be ""Class"".

SuggestedRemedy
Fix as per comment.

Proposed Response *Response Status* **C**
ACCEPT.

Cl **54** *SC* **8.6** *P* **38** *L* **30** *#* **441**
Dawe, Piers   Agilent

Comment Type **E** *Comment Status* **R** *E441*
What does this mean: ""The cable assembly shall provide class 2 or better shielding in accordance with IEC 61196-1.""?

SuggestedRemedy
Please give the reader a one-sentence summary so that he can decide if he needs to buy IEC 61196-1. Add IEC 61196-1 to list of references and give its title.

Proposed Response *Response Status* **C**
REJECT.

This is specified in the exact same manner as 1000BASE-CX is in Clause 39.4.2. IEC 61196-1 is already referenced in Clause 1.3

Cl **54**   *SC* **9.1.1**   *P* **39**   *L* **6 (Figure**   **#** **485**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **R**   *E485*
I think the title of the figure should be "plug" not "connector".

SuggestedRemedy
Change "connector" to "plug" in the title of the figure.

Proposed Response   *Response Status* **C**
REJECT.

Cl **54**   *SC* **9.2**   *P* **39**   *L* **27-35 (Fig**   **#** **486**
Bill Quackenbush   Cisco Systems, Inc.

Comment Type **E**   *Comment Status* **A**   *E486*
Inconsistent designators "+", "-", "<P>" and "<N>" are used to designate the two signals that comprise a differential pair.

SuggestedRemedy
Make the designations consistent and consistent with the rest of the text.

Proposed Response   *Response Status* **C**
ACCEPT.

<p> & <n> notation used throughout.

Cl **54**   *SC* **9.2**   *P* **39**   *L* **33**   **#** **389**
Beck, Michael   Alcatel Bell nv

Comment Type **E**   *Comment Status* **A**   *E389*
Figure 54-15: The signal names in the explanatory note are different from the signal names shown in the figure.

SuggestedRemedy
Make figure conform with notation in Table 54-2: Replace SLn+, SLn-, DLn+, DLn- with SLi<P>, SLi<N>, DLi<P> and DLi<N>, respectively. Explain meaning of DLi<P> and DLi<N>.

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

<p> & <n> notation used throughout.

Cl **54**   *SC* **all**   *P* **0**   *L* **0**   **#** **96**
Dove, Daniel   hp ProCurve Networki

Comment Type **E**   *Comment Status* **A**   *E096*
The term ""driver"" is used throughout the document to describe the term ""transmitter"". I believe this is not the correct term.

SuggestedRemedy
Do a document check and replace ""driver"" with ""transmitter"".

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **Figure 54-1**   *P* **16**   *L* **18**   **#** **334**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E334*
Fill problem (probably a FrameMaker platform independence problem).

SuggestedRemedy
Change the background in the PMD and MDI box to diagonal lines (prints as shaded).

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

Is correct in framemaker files, printing / pdf translation problem.

Cl **54**   *SC* **Figure 54–10—Cable a**   *P* **34**   *L* **18**   **#** **106**
Carlson, Steve   HSD

Comment Type **E**   *Comment Status* **A**   *E106*
Figure 54–10—Cable assembly return loss contains color.

SuggestedRemedy
See previous comments on this subject.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **Figure 54-11**   *P* **36**   *L* **26**   **#** **383**
Thompson, Geoff   Nortel

Comment Type **E**   *Comment Status* **A**   *E383*
Remove color information. (also 54-12) Final publication will be in black and white.

SuggestedRemedy

Proposed Response   *Response Status* **C**
ACCEPT.

TYPE: TR/technical required T/technical E/editorial   COMMENT STATUS: D/dispatched A/accepted R/rejected   SORT ORDER: Clause, Page, Line, Subclause   Page 35 of 37
RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
Cl **54**   *SC* **Figure 54-**1

Cl **54**　　　*SC* **Figure 54–11—Cable a**　*P* **36**　　　*L* **2**　　　# **107**
Carlson, Steve　　　　　　　　　HSD

Comment Type　**E**　　　*Comment Status*　**A**　　　　　　*E107*
　Figure 54–11—Cable assembly NEXT / MDNEXT loss contains color

SuggestedRemedy
　See previous comments on this subject.

Proposed Response　　　*Response Status*　**C**
　ACCEPT.

Cl **54**　　　*SC* **Figure 54–12—Cable a**　*P* **38**　　　*L* **2**　　　# **108**
Carlson, Steve　　　　　　　　　HSD

Comment Type　**E**　　　*Comment Status*　**A**　　　　　　*E108*
　Figure 54–12—Cable assembly ELFEXT / MDELFEXT loss contains color.

SuggestedRemedy
　Convert to grey-scale.

Proposed Response　　　*Response Status*　**C**
　ACCEPT.

Cl **54**　　　*SC* **Figure 54-13**　　　*P* **39**　　　*L* **1**　　　# **317**
Brown, Benjamin　　　　　　　　Independent

Comment Type　**E**　　　*Comment Status*　**R**　　　　　　*TR037*
　This figure is not referenced in the text

SuggestedRemedy
　Either add a reference to this figure or remove it. Same comment applies to Figure 54-14.

Proposed Response　　　*Response Status*　**C**
　REJECT.

　See comment #37. Figures will be labeld as informative.

Cl **54**　　　*SC* **Figure 54-2**　　　*P* **20**　　　*L* **31**　　　# **339**
Grow, Robert　　　　　　　　　Intel

Comment Type　**E**　　　*Comment Status*　**A**　　　　　　*E339*
　SIGNAL_DETECT arrow should connect to the box above it.

SuggestedRemedy
　Move the arrow

Proposed Response　　　*Response Status*　**C**
　ACCEPT.

Cl **54**　　　*SC* **Figure 54-5**　　　*P* **26**　　　*L* **24**　　　# **306**
Brown, Benjamin　　　　　　　　Independent

Comment Type　**E**　　　*Comment Status*　**R**　　　　　　*E306*
　Why does this figure have all the dashed lines in it? They don't appear to add anything to the figure.

SuggestedRemedy
　Remove all the dashed lines from the figure. Same comment applies to Figure 54-7.

Proposed Response　　　*Response Status*　**C**
　REJECT.

　Gradicule lines make graphs easier to read.

Cl **54**　　　*SC* **Figure 54-5**　　　*P* **26**　　　*L* **24**　　　# **102**
Carlson, Steve　　　　　　　　　HSD

Comment Type　**E**　　　*Comment Status*　**A**　　　　　　*TR297*
　Table 54-5 Transmit differential output return loss contains color (dark blue) in the graph. IEEE 802 standards are printed in black-and-white only.

SuggestedRemedy
　Change dark blue color in graph to black.

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

　all graphs will be labeled informative and be black & white, see comment #297

Cl **54**　　　*SC* **Figure 54–6—Normaliz**　*P* **27**　　　*L*　　　# **103**
Carlson, Steve　　　　　　　　　HSD

Comment Type　**E**　　　*Comment Status*　**A**　　　　　　*TR297*
　Figure 54–6—Normalized transmit template as measured at MDI using Figure 54–3 contains color. IEEE 802 standards are in black and white.

SuggestedRemedy
　Change colors to gray scale.

Proposed Response　　　*Response Status*　**C**
　ACCEPT.

　all graphical figures will be in black & white, see comment #297

TYPE: TR/technical required T/technical E/editorial　COMMENT STATUS: D/dispatched A/accepted R/rejected　SORT ORDER: Clause, Page, Line, Subclause　　Page 36 of 37
RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
Cl **54**　　　*SC* **Figure 54–(**

Cl **54**   *SC* **Figure 54–7—Receiver** *P* **31**   *L* **2**   **#** **104**
Carlson, Steve   HSD

Comment Type **E**   *Comment Status* **A**   *E104*
Figure 54–7—Receiver differential input return loss is in color. IEEE 802 standards are black-and-white.

SuggestedRemedy
Replace dark blue coloor with black in the graph.

Proposed Response   *Response Status* **C**
ACCEPT.

all graphic figures will be black & white

Cl **54**   *SC* **Figure 54-8**   *P* **32**   *L* **1**   **#** **310**
Brown, Benjamin   Independent

Comment Type **E**   *Comment Status* **A**   *E310*
Figure title needs to stay with its figure

SuggestedRemedy
Move the figure title to the bottom of page 31 (or the figure to the top of page 32) so the figure and the title are together.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **Figure 54–9—Cable as** *P* **33**   *L* **15**   **#** **105**
Carlson, Steve   HSD

Comment Type **E**   *Comment Status* **A**   *E105*
Figure 54–9—Cable assembly insertion loss contains color.

SuggestedRemedy
See previous comments on this subject.

Proposed Response   *Response Status* **C**
ACCEPT.

All figures and tables will be B&W

Cl **54**   *SC* **Table 54-10**   *P* **32**   *L* **28**   **#** **18**
Daines, Kevin   World Wide Packets

Comment Type **E**   *Comment Status* **A**   *E018*
Table borders for column #2 are messed up.

SuggestedRemedy
Fix borders.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **Table 54-10**   *P* **32**   *L* **31**   **#** **350**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E350*
Bad formatting.

SuggestedRemedy
Correct the borders on the Table so that outside border and bottom border of Table header is the bold line and others are the fine line.

Proposed Response   *Response Status* **C**
ACCEPT.

Cl **54**   *SC* **Table 54-8**   *P* **24**   *L* **11**   **#** **343**
Grow, Robert   Intel

Comment Type **E**   *Comment Status* **A**   *E415*
Inconsistent table format with Table 54-8.

SuggestedRemedy
Either change both to Baud Rate and tolerance on a single line per Table 54-6 or change 54-6 to the two line format of Table 54-8.

Proposed Response   *Response Status* **C**
ACCEPT.

See comment #415 and will use multi-line format in both