C/ 00 SC 1.4 Robert M. Grow	P1-1	L 25	# 3	<i>Cl</i> 00 Donald Heir	SC 40B- man	1	P 40-123	L	# 2			
Comment Type E	Comment Status A			Comment T			mment Status A					
Superflous content incor	nsistent with previous definitions			Recommended margin for common mode voltage limit be increased.								
SuggestedRemedy				SuggestedRemedy								
For 1000BASE-T, a vec when representing data,	tor of four 8B1Q4 coded quinary conveys an octet.	symbols that		It is a good practice to allow at least a margin of 3 dB when conducting EMC type tests. Therefore, it is recommended that the limit for the common mode voltage be increased to								
Proposed Response ACCEPT.		ensure a margin of 3 dB. From the original submission by Robert Campbell of Lucent Technologies on November 9, 1998 the maximum common mode signal observed was 1.52 mVpp. Since the cable clamp drive was changed from 2 Vrms to 1 Vrms, the										
C/ 00 SC 40B-1 Donald Heirman <td< td=""><td colspan="5">nald Heirman</td><td colspan="7"> common mode voltage was scaled by the same amount. Therefore, the 1.52 mVpp became 0.76 mVpp. Placing the common mode voltage limit 3 dB above this requires the limit be increased from 0.76 mVpp to 1.07 mVpp. </td></td<>	nald Heirman					 common mode voltage was scaled by the same amount. Therefore, the 1.52 mVpp became 0.76 mVpp. Placing the common mode voltage limit 3 dB above this requires the limit be increased from 0.76 mVpp to 1.07 mVpp. 						
Comment Type E	Comment Status A			Proposed R	esponse	Res	ponse Status C					
Table 40B-1: Recommen	nded margin fo rdifferential mode	ncreased.		T IN PRINC			(
SuggestedRemedy					30 line chan 250 1.07-0.		n Mode Voltage to 1.07 V	рр				
It is a good practice to a		1-30	0.1+0.97(f	/30)								
Therefore, it is recommended that the limit for the differential mode voltage be increased to ensure a margin of 3 dB. From the original submission by Robert Campbell of Lucent Technologies on November 9, 1998 the maximum differential mode signal observed was				C/ 01 Rich Seifert	SC 1.4		Р	L	# 28			
	ble clamp drive was changed fro			Comment T	ype E	Co	mment Status A					
became 16.5 mVpp. Pla	e was scaled by the same amour acing the differential mode voltag om 20 mVpp to 22 mVpp.						parenthetical: "(See IEEE s are swept into the IEEE		se 40)". This will clarify			
Proposed Response ACCEPT.	Response Status C			SuggestedRemedy Proposed Response Response Status C ACCEPT.								
1-30 2.4+19.6												
				C/ 01 David Law	SC 1.4		P1-1	L13	# 120			
				Comment T	vpe E	Co	mment Status A					
				lt appea remove	rs that the t d from the e	ext 'Unshiel xisting defi	Ided Twisted Pair' has be nition in 802.3-1998. If thi ut, if not it should be resto	s was intenti	ional			
				Suggested	Remedy							
							Ohm cables' should rea wisted Pair (UTP) cables					
				Proposed R			ponse Status C					
				AUGEP	T. Missing t	ext re-insei	nea					

C/ 01 SC 1.4 Robert M. Grow	P1-1	L 33	# 26	C/ 01 SC 1.4 Rich Seifert	P 1-3	L 7	# 39
Comment Type E Inconsistent addition, a generate symbols).	Comment Status A and poor language (I doubt Table	e 40-1 will		Comment Type E "Data Mode" is not just at th	Comment Status A ne start of a frame, as per t	he definition.	
SuggestedRemedy				SuggestedRemedy Clarify the definition to reflect	ct the complete meaning of	f Data Mode.	
Change to read:				, ,	Response Status C		
	s as specified in Table 40-1.			ACCEPT. Have revised defined declarative sentences.	initions of Control, Data an	d Idle Mode so th	ney begin with
Proposed Response ACCEPT.	Response Status C			C/ 01 SC 1.4.157	<i>P</i> 1-1	L	# 89
C/ 01 SC 1.4	P1-1	L 54	# 107	Brad Booth			
Zweig				Comment Type E Definition for MDI needs to	Comment Status A be updated.		
Comment Type E	Comment Status R bit Media Independent Interface	(GMII)		SuggestedRemedy			
SuggestedRemedy		Civili).		change text to read " or P	PHY (100BASE-T, 1000BA	SE-X or 1000BA	SE-T)."
Proposed Response	Response Status C			Proposed Response F ACCEPT.	Response Status C		
REJECT.				C/ 01 SC 1.4.xxx	P1-3	L 31	# 90
C/ 01 SC 1.4 Zweig	P1-3	L1	# 108	Brad Booth Comment Type E	Comment Status A		
Comment Type E	Comment Status A			Definition for Multi-port devi	ice is limited due to stipulat	tion of PMA-MDI	pair.
Modes do not signal t	hings. The first sentence is incor	rect in its Englis	h contstruction.	SuggestedRemedy			
SuggestedRemedy				change definition to read "A	·	nces of MDI."	
	of the sentence to: "In 1000BASE nsition to the Control mode, whic		frame is	Proposed Response F ACCEPT.	Response Status C		
Proposed Response ACCEPT.	Response Status C			CI 22 SC Rich Seifert	P 22-1	L13	# 41
C/ 01 SC 1.4 Rich Seifert	P 1-3	L 3	# 51	<i>Comment Type</i> E The subclause number is in	Comment Status A		
Comment Type E Change "steam" to "st	Comment Status A			SuggestedRemedy Change "22.2.4.7.7" to "22.	2.4.3.7"		
SuggestedRemedy				Proposed Response F ACCEPT.	Response Status C		
Proposed Response ACCEPT.	Response Status C						

TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Subclause, page, line RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Page 2 of 29 CI 22

SC

C/ 22 SC Robert M. Grow	P 22-1	L 5 ,8	# 30	C/ 22 SC Table Robert M. Grow	e 22-9 P 22-1	L 3	# 29
	Comment Status A ructions. I believe the intended	table is \			Comment Status A ion for safety should include the two)	
22.6. uggestedRemedy Change Table 22-4 to ⁻	Table 22.6			references to the fo SuggestedRemedy	ootnote. hed to table 22-9 and its two referen	000	
C	Response Status C			in the table.		665	
oposed Response ACCEPT.				Proposed Response ACCEPT.	Response Status C		
22 SC table 22- bert M. Grow	-9 P22-1	L13	# 31	C/ 28B SC	P28B1	L 36	# 43
mment Type E Correct the section nur ggestedRemedy Change to 22.2.4.3.7.	Comment Status A nber.			Rich Seifert <i>Comment Type</i> E Capitalize "A" in "A <i>SuggestedRemedy</i>	Comment Status A nnex".		
posed Response ACCEPT.	Response Status C			Proposed Response ACCEPT.	Response Status C		
22 SC Table 22 pert M. Grow		L15	# 32	C/ 28B SC 28B.	2 P28B-3	L	# 44
<i>mment Type</i> E The word "described" is The grammar is also ba	Comment Status A s not a strong as the word "spe ad.	ecified".		Comment Type E Change "these bi	Comment Status R ts indicates the availability" to " t	hese bits indicat	te the availability"
ggestedRemedy				SuggestedRemedy			
5 5	ter 9 provides bit values for 10 E-T (as specified in 40.5). Response Status C	00BASE-T2 (as s	pecified	Proposed Response	Response Status C		
ACCEPT.	,			REJECT. Text appears ok as	written the setting indicates		
22 SC Table 22 bert M. Grow	2-9 P22-1	L 22	# 33	C/ 28B SC 28B. Law	3 P28B-2	L17	# 122
mment Type E	Comment Status A			Comment Type E	Comment Status R		
	s not a strong as the word "spe	ecified".		typo			
The word "described" is				SuggestedRemedy			
The word "described" is The grammar is also ba	dd.			Suggest 'bit s' shou	ıld read 'bits'		
The word "described" is The grammar is also ba ggestedRemedy		000BASE-T2 (20	specified				
The word "described" is The grammar is also be ggestedRemedy Change to read: Regist	ter 10 provides bit values for 1 E-T (as specified in 40.5).	000BASE-T2 (as	specified	Proposed Response	Response Status C ne document shows "bits", not "bit s		

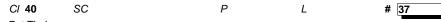
TYPE: TR/technical required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected SORT ORDER: Clause, Subclause, page, line RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

Page 3 of 29 C/ **28B** SC **28B.3**

C/ 28B SC 28B.3 P28B-2 L20 # 123 C/ 30 SC 30.5.1.1.11 P30-1 L11 # 42 Law **Rich Seifert** Comment Status A Comment Status A Comment Type Ε Comment Type E typo Change "test" to "text". SuggestedRemedy SuggestedRemedy Suggest '28B3' should read '28B-3' Proposed Response Response Status C Proposed Response Response Status C ACCEPT. ACCEPT. CI 28C SC 28C P28C-1 L34 # 124 C/ 34 SC 34.4 P34-1 L18 # 121 Law aw Comment Type Е Comment Status A Comment Type Ε Comment Status A Please move the text 'Suitable entries ...' to be above the typo table title and format the text as normal. At the moment it appears that SuggestedRemedv this text is a editorial instruction, it is in fact part of the text that Suggest 'Auto_Negotiation' should read 'Auto-Negotiation' needs to appear in Clause 34. Proposed Response Response Status C SuggestedRemedy ACCEPT. Proposed Response Response Status C P28C-1 CI 28C SC 28C L47 # 125 ACCEPT. Law C/ 40 SC Р L # 46 Comment Type E Comment Status A Rich Seifert Incorrect cross refrence Е Comment Status A Comment Type SuggestedRemedy Suggest '... defined in 4.4.1.1.' should read '... A "section" or "paragraph" should always be referred to as a "subclause". This is a global defined in 40.5.1.2.' comment. Similarly, sometimes the term "Clause" is used when "subclause" is intended. (Non-exhaustive) examples include: Proposed Response Response Status C ACCEPT. p40-3 In 1, p40-65 Ins 8 and 10, p40-76 In 35, p40-81 Ins 5, 30, p 40-85 In 3 and 4, p40-90 In 9 and 13 C/ 28C SC 28C.10 P28C1 L46 # 45 SuagestedRemedv **Rich Seifert** Change term to "subclause" as appropriate. Comment Type E Comment Status A Proposed Response Response Status C The reference is incorrect. 4.4.1.1 is the MAC Clause, unrelated to Auto-Negotiation. ACCEPT. SuggestedRemedy Correct the reference. Proposed Response Response Status C ACCEPT.

P802.3ab Draft 5.0 Comments

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



Pat Thaler

Comment Type tr Comment Status A

The material distributed with the sponsor ballot in the response to Howard Frazier's comment was inappropriate and misleading. The motion in the Working Group was: TECHNICAL MOTION:

That the response to Howard Frazier's disapprove comment be modified to: "While we appreciate your concern, we expect the existence proofs to be available by Sponsor Ballot. Given the simulation results and the design experience, it is appropriate to go forward to Sponsor Ballot with the existing draft."

I was the maker of this motion. I made the motion because I strongly disagreed with the rationale of the response drafted by the task force. In particular, I believe that proof of technical feasibility to the level appropriate for approval of a standard does imply a working prototype. I believe that this is particularly true for physical layer standardization.

Therefore, I made motion was to modify the response by replacing it with the new text. The original task force response should not have been circulated with the ballot.

SuggestedRemedy

In any future circulations of this comment, only the final response from the Working Group should be included.

Proposed R ACCEP	•	Response Status	W		
C/ 40	SC	Р		L	# 36

Pat Thaler

Comment Type TR Comment Status R

There are no operational implementations of 1000BASE-T at this point. This is a complex standard and, while simulations are useful for development, they are not comprehensive enough to replace operation of an actual system as evidence of adequacy of the specification. I can think of two cases where IEEE 802.3 allowed approval of a PHY standard before the demonstration of implementations: 10BASE-FP and 100BASE-T2. In both cases, products were never produced to the specifications.

When Howard Frazier made his comment at Working Group ballot, it looked possible that sample implementations would be operational before the completion of Sponsor ballot, so I supported going ahead with sponsor ballot. Unfortunately, such implementations have not become available and I cannot support further progression of this draft in their absence.

SuggestedRemedy

Completion of this standard should be delayed until there are at least sample implementations available for test. The experience gained is likely to produce new comments which should be incorporated into the draft before submittal to RevCom.

Proposed Response Response Status U

REJECT. See response to 119

C/ 40	SC	Р	L	# 119
Frazier				

Comment Type TR Comment Status R

Comment # 298 from the Working Group ballot on 802.3ab has not been satisfied. To date, no data from a "live" test of a 1000BASE-T implementation has been presented to the 802.3 WG.

The 802.3 WG dealt with my comment by passing the following motion:

WG Response to comment 298 (November 12, 1998): TECHNICAL MOTION: That the response to Howard Frazier's disapprove comment be modified to: "While we appreciate your concern, we expect the existence proofs to be available by Sponsor Ballot. Given the simulation results and the design experience, it is appropriate to go forward to Sponsor Ballot with the existing draft." M: Ms. P. Thaler S: Mr. K. Daines Y: 42 N: 0 A: 2 Approved.

Thus, I believe that the 802.3 Working Group as a whole also expects to see existence proofs at this stage of the process.

SuggestedRemedy

Do not progress the document any further until existence proofs have been demonstrated to the satisfaction of the 802.3 Working Group.

Proposed Response Response Status U

REJECT. The task force believes that the level of evidence for technical feasibility as provided by technical simulations and other data is sufficient to support approval of 802.3ab as a standard.

(Vote of 1/21/99)

Y 11 N 0

A 7

C/ 40	SC	Р	L	# 58
Gene Milliga	an			

Conc Milligari

Comment Type E Comment Status A

The redundant overhead of the ballot and comment forms should be automated. Page numbers in the following comments refer to pdf file pages of 150 pages.

SuggestedRemedy

The redundant overhead of the ballot and comment forms should be automated. Page numbers in the following comments refer to pdf file pages of 150 pages. I can not stumble on how to generate more comments. So I will dump the rest into this one. Sorry about that.

1) In 1.4.xxx Technology Ability Field: Change "Within 802.3," to "Within IEEE 802.3,"

2) In 1.4.xxx Technology Ability Field: why is 1000BASE-T not discussed?

3) On page 9 line 9 a space is needed in "TXD<7:0>". Same on page 23 line 52 and elswhere. Global change.

4) On page 14 line 9 "ISO/IEC8802-3/DAD 19954" is "19954" correct?

5) On page 14 line 18 what is the intent of "Suitable entries for table G4 of ISO/IEC

11801:1995 Annex G would be:"? Is it a critique on 11801?

6) Are the strange symbols on line 32 correct?

7) On page 21 line 28 to be in context delete "must".

8) The title and content of 40.1.2 Relationship of 1000BASE-T to other standards do not match. This clause discusses only OSI and does not discuss ISO/IEC 11801 nor other standards in other clauses.

9) On page 23 line 1 "The following paragraphs summarize the PCS and PMA sections of this document." is follwed by a figure not paragraphs. I think the reference should be to a specific range of clauses not paragraphs.

10) 40.1.6 "Conventions in this Clause" should be "Precedence, Conventions, Tolerances, and Defaults in this Clause". Conventions are given also elsewhere in this clause (e.g., 40.3.1.3.5). In addition in this instance which clause is being referred to by "this clause"? The latter comment is mute if all instances of clause are all encompassing and do no refer to just a subclause. (The use of the term paragraphs and "The body of this Clause" has given me the impression the terminology is used loosely.

11) On page 34 line 30 is the meaning of the horizontal line clear to others? It is not to me. 12) The bottom of Figure 40-5 has a spurious arrow head.

13) On page 36 line 46 the unfortunate circumstance of "{2, 0, -2}" coming at the end of the line makes it unclear whether the symbol is a hyphen at line end or a minus sign. I notice that in the document hyphenation is used so I can not tell.

14) 40.6.1.2 Transmitter electrical specifications uses both "this clause" and "this section". 15)Does IEEE normally use italics for notes? Other standards use italics for referenced standards and for variables but not for notes. See page 86. After review I see that some notes (ignoring editor's notes to be removed before publication) are in italics and some are not.

16)On page 93 consider making MATLAB code for Distortion Post Processing a subclause. 17)The notes (?) at the bottom of Figure 40-26 are jumbled together and a little confusing to parse what is included in the paranthesis.

18)On page 102 it is confusing to have the footnote citation tied to the equation. This would be even worse if another footnote makes this one greater than 1. I suggest the citation be moved elsewhere in the sentence.

19)On page 103 line 17 there is confusion between hyphen and minus at the end of line. 20)In Figure 40C-1 is "Note: This signal is the combination of link_control and M/S being resolved" clear as to what it means and which signal it refers to?

21)On page 147 why are the notes for Figure 40-2 so greatly distanced from Figure 40-2 on

page

SuggestedRemedy =

Proposed Response Response Status C

ACCEPT IN PRINCIPLE (some--see list below).

1. Accept, will change

2. The Technology Ability Field is not used for 1000BASE-T; see 40.5.

3. Reject Style has been TXD<n:n>

4. Page 34-1: will check

5. This provides an entry for the appropriate table in 11801.

6. Yes

7. Page 40-1: Accept

8. Reject

9. Page 40-3: AIP, "paragraphs" changed to "subclauses"

10. Page 40-7: Reject, this section defines general conventions that apply across the clause. The term "clause" is used to refer to a specific chapter (e.g., Clause 40.) The term "paragraphs" has been changed to "subclauses."

11. Page 40-14: Figure redrawn as per another comment.

12. Page 40-15 Accept, arrowhead removed in redraw

13. Page 40-16AIP--changed to {+2, 0, -2}

14. Page not clear: global change from "section" to "subclause"

15. Editor's notes are done in bf italics. Permanent notes done in special format.

16. Reject: We feel it is important to keep explanatory information with the MatLab code.

17. Page 40-78: AIP: will tune text

18. Page 40-81--changed from footnote to technical note.

19. Page 40-83--this is a formatting artifact that does not appear in the Frame version of

the document.

20. Page 40-125 AIP--will clarify before posting D5.1.

21. Page 40-127 - Figure 40C-2 takes up a full page so the notes must appear on the preceding page.

Cl 40 Rich Seife	SC rt	P 4	0-90	L 29,43	# 84	
Comment Delete	<i>Type</i> E "functional" (2	Comment Status places).	Α			
Suggested	IRemedy					
Proposed ACCE		Response Status	с			

					-				
C/ 40 SC 40.1.2	P 40-1	L 36	# 126	<i>CI</i> 40 Law	SC 40).1.3.1	P 40-5	L 49	# 130
<i>Comment Type</i> E The PHY contains sub-	Comment Status A			Comment		T I clock o	Comment Status A r the recovered clock that is loc	bed	
SuggestedRemedy Suggest the text 'The F	PHY layers shown' should read	I		back above	to the PMA		MIT block for loop timing. Acco _clock, according to this text it is	rding to the diag	Iram
'The PHY sub-layers Proposed Response ACCEPT.	 Response Status C			Sugg			he received_clock' should d_clock'.		
•	P 40-2 Comment Status A n of the shading seen in figure 40	L 15-19 -1.	# 127	ACCI tx_en TX_E	I Response EPT IN PR able to PC EN to PHY rered_clock	INCIPLE S TRAN CONTRO		NSMIT ENABLE	=)
layers shown in Figure sublayers (shown shad Auto-Negotiation sub-la Proposed Response	1.2, Page 40-1, line 36, 'The PHY 40-1 connect' should read 'Th led) in Figure 40-1, in combinatio ayer, connect <i>Response Status</i> C	e 1000BASE-T	РНҮ	and F	are the full PMA_UNIT	E primitive DATA.ine	P40-5 Comment Status R s PMA_UNITDATA.request(tx_ dicate(rx_symb_vector) shown	in Figure 40-3 w	# 1 <u>29</u>
ACCEPT. C/ 40 SC 40.1.3.1 aw	P40-5	L15	# 128	<i>Suggeste</i> Sugg read '	dRemedy est 'PMA_l	UNITDA ⁻ vector' an	Ameter of the primitive is shown TA.request(tx_symb_vector)' sh id that 'PMA_UNITDATA.indica	nould	tor)'
interface as shown in F TX_EN's. The TX_EN	Comment Status A N' is passed across that PMA Se igure 40-3 as this means there a on the GMII shown on the left of	re two different the PCS TRAN		Proposea	Response	e e	Response Status C N BY COMMENTOR		
TX_EN state passed a PMA_TXENSTATUS.re	he right of the PCS TRANSMIT E cross the PMA Service Interface equest(tx_enable) primitive. In ac y the PCS Transmit state machin	by the dition tx_error a	nd	C/ 40 Brad Boot Comment	t Type	E	P40-6 Comment Status A	L 8	# 92
SuggestedRemedy Suggest that the signal	l from PCS TRANSMIT ENABLE N should read tx_enable.	E		Suggeste	rect referer dRemedy is specified		not 40.2.		
Proposed Response ACCEPT.	Response Status C			Proposea ACCI	l Response EPT.	Ð	Response Status C		

C/ 40 SC 40.1.4 Brad Booth	P 40-6	L 38	# 93	C/ 40 SC 40.1.5. Rich Seifert	P 40-7	L 21-22	# 48
Comment Type E Description for signali are not performed by SuggestedRemedy Change sentence to r	Comment Status A ng relates signaling only to the P the PCS. ead "1000BASE-T signaling is p p sequences that the PMA trans	erformed by the F	PCS generating	Comment Type T The statement, "The limplementation." can asserting observable that system operation	Comment Status A behavior of all systems is identication to be true. Clearly, if I have a GI GMII signals) that I cannot do with from the perspective of signals a he GMII is implemented or not.	MII, I can exhibit b thout one. I believe	ehaviors (such as you mean to say
Proposed Response ACCEPT.	Response Status C			SuggestedRemedy Clarify wording to avo Proposed Response	id confusion. Response Status C		
interaction rather than SuggestedRemedy Change paragraph to "The PHY operates in the PCS generates co PMA. In training mod	read: two basic modes: normal mode ode-groups that represent data, c le, the PCS is directed to generat MA which enable the receiver at node."	or training mode. ontrol or idles for e only idle code-(In normal mode, transmission by the groups for	connections. SuggestedRemedy Either clarify the state eliminate the stateme Proposed Response ACCEPT IN PRINCII CI 40 SC 40.1.5.	Comment Status A standard, it states that a crossov ment (such that a crossover cab nt. It doesn't appear to say anyth Response Status C PLE.	le isn't considered	
SuggestedRemedy	P40-7 Comment Status A d 40.1.5.1 are inaccurate. change 40.1.5 to be "Inter-subla Response Status C	L 14	# <u>96 </u>	true. The auto crosso	Comment Status A ASE-T needs no special cabling ver function is optional and if no uired in a DTE to DTE connection Response Status C	t implemented on	

C/ 40 SC 40.1.6 Brad Booth	P 40-7	L 28	# 34	C/ 40 SC 40.10.2.2 Thompson	P 40-90	L37	# 103	
Comment Type TR "shall" is not required SuggestedRemedy change " state diag Proposed Response ACCEPT.	Comment Status A d gram shall prevail." to " state diag <i>Response Status</i> C	ram prevails."		Comment Type TR Com The assumption in the warning i being supported. A very significa at the outside end of horizontal c powered by a fully isolated batte that this configuration (i.e. laptop or other LAN attachment system time to come.	ant portion of the market cabling is either battery por ry recharging device. All os with some sort of dock	for LAN stations owered or indications are king facilities		
(PHYs) that may be	2.2 P40-90 Comment Status A boclause is discussing issues relate physically separate from the device a exposed interface; it is intended f	with the MAC. ⊢	lowever, the GMII	SuggestedRemedy Remove the warning and take w the requirements so that floating	•			
subassembly interco external PHYs. (In reality, all PHYs a sentence is inapprop There is no such GM interface available fo The "warning" implie 1000BASE-T and do	nnections. With no cable or conne	ctor specification the MDI, so the ermore, the GMII h associated with there should be r	, it is unsuitable for wording of the first is not an external the use of to safety problem	Change "Gigabit Ethernet" to "1 SuggestedRemedy Proposed Response Resp	P4-91 oment Status A 000BASE-T".	L 9	# <u>99</u>	
SuggestedRemedy = Delete the subclau which a safety groun	se in its entirety. If the subclause of d connection should be made (oth ge the "warning" to a "note", if it re	oes remain, clari er than "GMII gro	fy the point to	ACCEPT. <i>Cl</i> 40 SC 40.10.2.4 Thompson <i>Comment Type</i> T <i>Corr</i>	P40-91	L8	# 104	
Proposed Response Response Status C ACCEPT.			The age of Internet Telephony is that there will be line-powered E use. Numerous parties are movi onto the RJ-45. It is no longer af as a "wiring hazard" which impliv very likely to be the normal future	o the jacks that we wer for EtherPhones e this situation				
				SuggestedRemedy Add a requirement that 1000BASE-T can withstand a telephone battery from the outlet. Revise text accordingly				
					onse Status C	IY in presence of		

C/ 40 SC 40.12 P40-93 L3 # 155 aw	C/ 40 SC 40.12, Table 40-15 P 40-93,94 L 7-9, 25-30 # 87 Rich Seifert				
Comment Type E Comment Status A	Comment Type TR Comment Status A				
Suggest that the first sentence be re-worded to read as per 36.5.	The statement that none of the constraints of this section apply to FDX devices is				
uggestedRemedy	contradicted by Table 40-14. Also, the constraints should be maintained both for single-port FDX devices and multi-port FDX devices (e.g., switches).				
ds' should read 'In half duplex	SuggestedRemedy				
mode proper operation of a CSMA/CD LAN demands'.	Delete the last sentence of the first paragraph of 40.12.				
Proposed Response Response Status C ACCEPT.	In Table 40-15, row 2, insert "Half Duplex Only" in the event description. In Table 40-15, row 3, insert "Half Duplex Only" in the event description. Add a specification to Table 40-15 for the delay from MDI in to Data Received at MAC for a				
C/ 40 SC 40.12 P40-93 L7 - 8 # 154	FDX device with an unexposed GMII.				
aw	Proposed Response Response Status C				
Comment Type T Comment Status A	ACCEPT IN PRINCIPLE.				
The delay constrains apply for both half duplex and full duplex.	Rename table to DTE delay constraints (half duplex mode)				
In the case of full-duplex this is to constrain the response time to PAUSE messages. In addition full-duplex constraints are provided in Table 40-14.	delete last sentence of first paragraph of 40.12 (In full duplex mode)				
Suggested Remedy	C/ 40 SC 40.12.1 P40-94 L9 # 159				
Remove the text 'In full duplex mode of operation single	Law				
port devices are not required to conform to the constraints specified in	Comment Type E Comment Status A				
this section'. Add a new second paragraph that reads 'In full duplex mode, predictable operation of the MAC Control PAUSE operation (Clause 31, Annex	typo				
31B) also demands that there be an upper bound on the propagation delays	SuggestedRemedy				
through the network. This implies that MAC, MAC Control sublayer, and PHY implementers must conform to certain delay maxima, and that network	Rx_DV' should read 'RX_DV'.				
planners and administrators conform to constraints regarding the cable	Proposed Response Response Status C				
topology and concatenation of devices.	ACCEPT.				
Proposed Response Response Status C					
ACCEPT IN PRINCIPLE. Text already removed; add paragraph	C/ 40 SC 40.12.2 P40-94 L15 # 157				
	Law				
	Comment Type T Comment Status A				
	I believe the constrains stated here apply only to half-duplex mode.				
	SuggestedRemedy				
	Add the text '(half duplex only) to the title.				
	Change the text ' In Table 40-15.' to read ' In Table 40-15 for half				
	duplex operation.'. Change the text '(unexposed GMII)' to read '(half duplex only)' in the title for Table 40-15."				
	Proposed Response Response Status C ACCEPT IN PRINCIPLE.				
	Check text insertions				

C/ 40	SC 40.12.2	P 40-94	L 24	# 158	C/ 40	SC 40.13	P 40-95	L 5	# 163
Law					Law				
transn	<i>Type</i> T <i>Com</i> onstraint MDI Input to MDI nit) is missing from table 40 ontributes to the acquisition)-15. This is a very imp	ortant paramete	er.	introd	802.3ab should n uction.	Comment Status A of be mentioned in the subcluase	9	
	nission must take place for ke place in a correctly conf		a collision will			-	nform to IEEE 802.3ab'		
Suggested	dRemedy					Response	Response Status C		
	ne 'MDI Input to MDI outpu nit)' value to table 40-15.	t (worse-case non-defe	erred		ACCE	•			
'	, ,	onse Status C			C/ 40	SC 40.13	P 40-95	L 5,6,38, 39	# 162
ACCE	EPT. able 36-10				Law				
	st symbol of SSD/1st symb	ool of SSD			Comment	Type E	Comment Status A		
C/ 40	SC 40.12.2	P 40-94	L 32	# 156		st letters of Physic nment should be u	al Coding Sublayer and Physica pper case.	l Medium	
aw		_			Suggeste	dRemedy			
omment	51	ment Status A			see co	omment			
	onstraints on Carrier de-as missing. See 36.5.3 for the		•		Proposed ACCE	Response	Response Status C		
00	dRemedy								
ensure shall, a	aint (half duplex mode)', su e fair access to the network additionally, satisfy the follo	k, each DTE operating owing: (MAX MDI to M	AC Carrier	ode	C/ 40 Brad Boot		P 40-96	L	# 74
	sert Detect) - (MIN MDI to		etect) < 16 Bits'		Comment	<i>)</i>	Comment Status A		
•	Response Response Response	onse Status C					babilities should be used through	out the PICS.	
Delete	e last sentence (17-18) on a sentencecould follow 36				Suggester Updat		which options or capabilities con	trol their impleme	ntation
/ 40 aw	SC 40.13	P 40-95	L 11 - 12	# 161	•	Response	Response Status C E.		
Comment	Type E Com	ment Status A			C/ 40 Brad Boot	SC 40.13 h	P 40-97	L	# 70
00	dRemedy e PICS copyright release as	s per 36.7 for example.			Comment PICS		Comment Status A lue/Comment" fields need to be	cleaned up.	
	Response Respo	onse Status C			Suggester Clean	dRemedy hup fields.			
						Response	Response Status C		

				1 002.000 0					
40	SC 40.13	P 40-97-113	L1	# 160	C/ 40	SC 40.13.2	P 40-96	L11-13	# 164
aw					Law				
omment	Type E	Comment Status A			Comment	Type E	Comment Status A		
	ext 'PICS pro form CS tables.	na for' is not required in the titles	for		interfa	ace nor was suppo	00BASE-T was supporting a exporting symbol level repeaters. I a		
Suggested	dRemedy						over from 100BASE-T2.		
00		CS pro forma table for clause d'Clause conventions'.			Suggested	aRemeay e Item PMA.			
	Response	Response Status C							
ACCE	•				ACCE	Response EPT.	Response Status C		
C/ 40	SC 40.13.2	P 40-96	L	# 73	C/ 40	SC 40.13.2	P 40-96	L14 & 17	# 166
Brad Bootl	h				Law				
Comment	Type TR	Comment Status A			Comment	Type E	Comment Status A		
Requi Suggested	re item for auto cr dRemedv	ossover function				ems on these two should be differer	lines have the same Item name	e, suggest	
	o table:				Suggested	dRemedy			
	PHY supports au Response	to crossover 40.x O Yes/No Response Status C				est that item on lin ing else considere	e 17 be changed from AN to O d appropriate.	MS or	
ACCE	•				Proposed	Response	Response Status C		
					ACCE	EPT.			
C/ 40 Brad Bootl	SC 40.13.2 h	P 40-96	L11	# 71	C/ 40	SC 40.13.2	P 40-96	L 19	# <u>72</u>
Comment	Type TR	Comment Status A			Brad Booth				
		posed PMA service interface" or er core (beyond the scope of thi		n of how to integrate	Comment FDX s	51	Comment Status A nd HDX should be *HDX. Both	should also have the	he No option
Suggestee	dRemedy				Suggested	dRemedy			
Remo	ve *PMA				Chang	ge and add No opt	tion		
Proposed ACCE	Response PT.	Response Status C			Proposed ACCE	<i>Response</i> PT.	Response Status C		
					C/ 40 Law	SC 40.13.2	P 40-96	L 19 & 22	# 167
					Comment	Type E	Comment Status A		
					As bot	51	HDX are optional they need bo	th Yes and No	
					Suggested				
							n from 'Yes[]' to 'Yes[] No[]'.		
					Proposed	Response	Response Status C		

C/40 S	C 40.13.2	P 40-96	L 28	# 165	C/ 40	SC 4	40.13.8	P 40-115	L 31-33	# 168
_aw					Law				20.00	
Comment Type	Е	Comment Status A			Comment	Туре	Е	Comment Status A		
options list,	it should be a	ver function is not listed in the dded.			option	should b	be deleted	he listed as a major capability and from the MDI requirements table he major options table).		
SuggestedRem	-				Suggested		0	ne major options table).		
		Auto-Crossover, Subclause: rt: Yes[] No[], Value/comment:			00	-	·	able of subclause 40.13.8.		
Proposed Resp		Response Status C					remaining			
ACCEPT.					Proposed	•	se	Response Status C		
CI 40 S	C 40.13.3	P 40-97	L 6	# 69	ACCE					
Brad Booth					C/ 40	SC 4	40.13.8	P 40-115	L 35 - 42	# 169
Comment Type	TR	Comment Status A			Law	_				
CCO1 shou	uld be remove	d based upon a previous TR co	mment		Comment		E	Comment Status A		
SuggestedRem	ledy							nal depended on the support of no Mandatory.		
Delete CCC	D1 from table,	rename CCO2 to CCO1			Suggested			,		
Proposed Resp ACCEPT.	oonse	Response Status C			Chang	e status	column fe	or items MDI8 to MDI11 from 'M mn from 'Yes[]' to 'N/A Yes[]'.		
C/40 S	C 40.13.7	P 40-113	1	# 170	Proposed	Respon	se	Response Status C		
Law	0 40.10.1	1 40 110	L	<i>"</i> 170	ACCE	PT.				
Comment Type	Е	Comment Status A			C/ 40	SC 4	40.13.9	P 40-116	L	# 171
		lation and cabling issues not un			Law					
the control predicated		ndor and therefore not Mandato	ry, they should	be	Comment	Туре	Е	Comment Status A		
SuggestedRem	-							installation issues not under the		
00	2	all 40.13.7 (items LKS1 to				l of the F ated by I		or and therefore not Mandatory, t	ney should be	
		I', support column from 'Yes[]' t	o 'N/A Yes[]'.		Suggested					
Proposed Resp	oonse	Response Status C			00	-	·	f items ENV2, ENV4 and ENV6	from	
ACCEPT.						,	••	blumn from 'Yes[]' to 'N/A Yes[]'.		
					Proposed ACCE		se	Response Status C		

C/ 40 SC 4 Brad Booth	40.2	P 40-8	L	# 97	C/ 40 Brad Booth	SC 40.3	P 40-15	L	# 62
Comment Type	E Com	ment Status A			Comment	Type TR	Comment Status A		
Interface) woul	ld also require mo	2 (insertion of PCS Ser ving PMA_LINK.reque	st and PMA_LI	NK.indicate out of the			ecification mentions a PCS Col as a seperate entity but is perfo		
the PMA Service I		because these service	e primitives are	not associated with	Suggested	lRemedy			
1000BASE-T u control signals PMA_LINK.rec PMA_LINK.inc Move 40.2.5 P	wing: ology-Dependent l uses the following across the Techn quest(link_control) dicate(link_status) PMA_LINK.request 0.2.3.2, respective	service primitives to e ology-Dependent Inter " t and 40.2.6 PMA_LIN	face as specifie	ed in Clause 28:	page 4 page 4 Figure TRANS page 4 "The P is occu genera operati	IO-15, line 4, cha IO-15, line 8, cha 40-5, remove th SMIT, draw link_ IO-16, new parag PCS Transmit fun urring simultaneo ate the GMII sign	ange "five" to "four" nge to read: " PCS Receive a nge "five" to "four" e PCS COLLISION PRESENC status entering PCS TRANSM raph after line 25: ction generates the GMII signa usly with transmission. The PC al COL in a 1000BASE-T PHY	E block, draw C IIT I COL based or S Transmit fund	COL exiting from PCS n whether a reception ction is not required to
oposed Respons ACCEPT.	se Resp	onse Status C			Proposed ACCE	•	Response Status C		
40 SC 4	40.2	P 40-8	L1	# 131	C/ 40 Brad Booth	SC 40.3	P 40-15	L1	# 68
omment Type typo	E Com	ment Status A			Comment Chang	<i>Type</i> E le heading to sim	Comment Status A pler format		
<i>iggestedRemed</i> Suggest '1000	,	read '1000BASE-T'.			Suggested Chang		hysical Coding Sublayer (PCS)"	
roposed Respons ACCEPT.	se Resp	onse Status C			Proposed I ACCE		Response Status C		
40 SC 4	40.3	P 4-15	L10	# 16	C/ 40 Rich Seifer	SC 40.3.1.1	P 40-16	L 10	# 38
omment Type	E Com	ment Status A			Comment	Type TR	Comment Status A		
Management * *objects*.	*functions* are not	really specified in Clau	use 30, only the	management			r passing a "Reset" request fro nt as a parameter in any of the		
iggestedRemedy	<i>y</i>				Suggested	Remedy			
Clarify wording	g.						eter to an appropriate interface	primitive, or add	d a new primitive to
oposed Respon	se Resp	onse Status C				ne variable acros			
ACCEPT IN P Text in 30.1 rei Will tune appoi	fers to "managed	elements, managed ob	ojects, attributes	and behaviors."		Response PT IN PRINCIPI 40.3.1.1 "c" con			

CI 40 SC	40.3.1.3	P 40-17	L 20	# 111	C/ 40	SC 40.3.1.5	P 40-31	L	# 55
Zweig					Brad Boot	h			
Comment Type	T Comment	Status A			Comment	Type E	Comment Status A		
	he side-stream scramb	ler are not actual	ly		Parag	raph is confusing			
random.					Suggeste	dRemedy			
SuggestedRemed						ge to read:			
C C	om" to "pseudorandom"						function generates the GMII s de. The PCS shall conform to		
Proposed Respon ACCEPT as e	se Response ditorial comment.	Status C			depic speci	ed in Figure 40-11 ied in 40.3.3.	including compliance with the	associated state	variables as
C/ 40 SC	40.3.1.3.1	P 40-17	L 3	# 110		ort half duplex opera	function is not required in a 10 ation."	UUDASE-I PHY	that does not
Zweig						Response	Response Status C		
Comment Type	T Commen	Status A			ACCE	•	, -		
scrambler will	er state is initialized to a not work. The last two nation of bits is OK.	,	t sound		C/ 40 Rich Seife	SC 40.3.1.6	P 40-31	L 34,35	# 7
SuggestedRemed	v				Comment	Type TR	Comment Status A		
	to end of paragraph: "	n no case shall th	ne scrambler		First, not ze	the signals tx_enab ro or one. Second,	le and tx_error are defined to the condition upon which COI		
Proposed Respon	se Response	Status C			way it	is written, it could b	be read as:		
ACCEPT.					COL	<= TX_EN + (TX_E	R * receiving)		
C/ 40 SC Rich Seifert	40.3.1.3.1	P 40-17	L 36,37	# 6	or				
Comment Type	E Commen	Status A			COL	<= (TX_EN + TX_E	R) * receiving		
51	implies that the implem		"the only one".		which	are not equivalent	I believe the intent is the latter		
SuggestedRemed			, ,				ange "=1" to "= TRUE" (2 place		
= Change "The to	e implementation Flo					e in the text the log OL signal.	ic equation shown in my comr	nent for the corre	ect formulation of
"An implement by this standa	ation Figure 40-6. O rd."	ther implementati	ons are possible a	and are permitted	Suggeste	dRemedy			
	ption for Figure 40-6 fr	om "Realization c	ıf"		Pronosed	Response	Response Status C		
to "A Realization	of"				,	,	. See esolution of 62		
Proposed Respon ACCEPT.	se Response	Status C							

C/ 40 Rich Seifert	SC 40.3.2	P 40-32	L1-18	# 8	C/ 40	SC 40.3.3.1	P 40-33	L 52	# 133
					Law				
There is The Figu	structure for 802.3 s a conformance re jure is labeled "PC	Comment Status A is defined in Clause 3. It can equirement on line 3 that is ur S-to-PMA sublayer stream st ed "Frame Structure". Second	ntestable. ructure", which h	as two problems.		alue 'SCR_OK' is sourcing function	Comment Status A not listed in the primitive defini (40.4.4.1).	ion nor	
		such interface defined betwee			Remo	ve the value 'SCF	_OK' from the variable values	ist.	
uggestedR	Remedy				Proposed	Response	Response Status C		
Eliminat	te the "shall" confo	e to "Stream Structure". ormance requirement. nat it properly reflects the sign	als that are actua	Illy being depicted.	ACCE Value	s are OK or NOT			
roposed R	0	Response Status C			C/ 40 Brad Booth	SC 40.3.3.1	P 40-33	L 8	# 56
	-	_symb_vector and rx-symb_vector	ector structure"		Comment	51	Comment Status A defined in the variables.		
/ 40 rad Booth	SC 40.3.3.1	P 40-33	L12	# 57	Suggested	dRemedy	n description to 40.3.3.2.		
omment Ty	,	Comment Status A				Response	Response Status C		
		defined in the variables, and t	there is a typo in	the definition.	ACCE	•	Response Status C		
	NCODE function	description to 40.3.3.2. sentence to ENCODE.			C/ 40 Rich Seife	SC 40.3.3.1	P 40-33	L 8-14	# 9
roposed R ACCEP		Response Status C			Comment	Туре Т	Comment Status A CODE *functions* are listed as	*variables*.	
40 w	SC 40.3.3.1	P 40-33	L 50	# 132	Suggested Move	2	ECODE to the "Functions" sub-	clause 40.3.3.2.	
	_rcvr_status parar	Comment Status A neter is sourced from the PM.			Proposed ACCE	<i>Response</i> PT.	Response Status C		
(see Fig definition		PMA Link Monitor as stated i	n the variable		C/ 40	SC 40.3.3.1	P 40-34	L 27,52	# 10
lggestedR	Remedy				Rich Seife	rt			
		MA Link Monitor function' Receive function'			Comment A varia	51	Comment Status A wo values simultaneously.		
oposed R ACCEP	•	Response Status C			Suggested Chang	2	NO_ERROR" to "ERROR or N	O_ERROR"	
					Also, d	delete the word "s	et" on line 52. (Boolean is suffi	cient)	
					Proposed	Response	Response Status C	·	

Bich Selfert Law Comment Type E Comment Status A - Chung' packet's 'o'stream' (2 places). SuggestedRemedy ''apposed Response Response Status C ACCEPT. ACCEPT. 2'A O SC 40.4 P40-42 L1 # 175 PagestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy Comment Type E Comment Type (T R Comment Status A The statement appears to require that a PMA for the ord statement appears to require that a PMA for the ord statement appears to require that a PMA provide a 10 - 10 BER with no qualification on SM nation (Leaves of Start timer_dmer_dmer_dmer_dmer_dmer_dmer_dmer_d	tich Selfert Law Comment Type E Comment Status A Comment Type T Proposed Response Response Status C ACCEPT: Comment Type E Change Parket Page 40-45 Stat back Page 40-45 Very posed Response Response Status C ACCEPT: SC 40.4 P40-42 L1 # 75 Change Parket Comment Type E Comment Type A Response Status C Suggested/Remedy Comment Status A Response Status C Comment Type E Comment Type A Response Status C ACCEPT: Comment Status A Mpo Suggested/Remedy Sc 40.4.2.3 P40-43 L47 # 27 Suggested/Remedy Comment Type E Comment Type E Comment Type C P40-48 L6-29 # 137 Change PHY to PMA. Response Status C ACCEPT Comment Type E Comment Type E Comment Type E Comment Type E Comm	C/ 40 SC 40.3.3.1 P40-35	L1-3 # 11	C/ 40 SC 40.4.5.1 P40-48 L31 # 136
Change 'packet' to 'stream' (2 places). Way set of 'strea	= Change 'packet" to 'stream' (2 places). TX = Mi and passed across the PMA Service interface (see 40.46). Suggest el/Ramedy tropposed Response ACCEPT. Response Status C ACCEPT. 74 0 SC 40.4.2 P40-42 L1 75 minut Type E Comment Status A Heading could be much simpler Viggested/Ramedy Fesponse Status C ACCEPT. 76 and SC 40.4.2.3 P40-43 L47 #27 76 bits Safetit Comment Status A Heading could be much simpler Viggested/Ramedy Fesponse Status C ACCEPT. Response Status C ACCEPT. 77 40 SC 40.4.2.3 P40-43 L47 #27 70 40 SC 40.4.2.3 P40-43 L49 #37 71 40 SC 40.4.2.3 P40-43 L49 #37 72 40 Sc apponse Status C ACCEPT In Panusbe achidrend in Alaga MpP <td></td> <td></td> <td></td>			
uggestel/Remody 40.46.15. Suggest that to_enable should be used instead as this is passed across the PMA. Struction interface by PMA_TXENSTATUS.request vid 0 SC 40.4 P40-42 L1 # 175 viggestel/Remody Comment Type E Comment Type Targes Status C ACCEPT INFINITUS request vid 0 SC 40.4.2.3 P40-43 L47 # 27 vid 0 SC 40.4.2.3 P40-43 L49 # 137 vid 0 SC 40.4.2.3 P40-43 L49 # 137	uggestel/Renedy roposed Response Response Status C ACCEPT. If 10 if 40 SC 40.4 P40-42 L1 If 15 moment Type E Comment Status A FALSE is hould read to chable as specified in Figure 40-8, chable parameter generated by PAL_TXENSTATUS.request Suggest that TX_EN = FALSE is hould read to chable as specified in Figure 40-8, chable parameter generated by PAL_TXENSTATUS.request ingested/Remedy ingested/Remedy Comment Type E Comment Type III 00 40-8 CACEPT IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	· · · //· -		
Poposed Response Response Status C ACCEPT. ACCEPT. C140 SC 40.4 P40-42 L1 # 75 Stad Booh Comment Status A Heading could be much simpler Suggested Amerged and the variable in the 40.4.1, this Suggested Response C explain to the variable in the 40.4.1, this Sc 40.4.1 Proposed Response C explain to the variable in the 40.4.1, this Suggested Response C explain to the variable in the 40.4.1, this Sc 40.4.1 Proposed Response C explain to the variable in the 40.4.1, this Suggested Response Response Status C C ACCEPT IN PRINCIPLE. Remove PMA.TXENSTATUS request C140 SC 40.4.2.3 P40-43 L47 # [27] Law Camment Type E Comment Status A This subdause covers only the PMA, not the entire PHY. SuggestedRemedy Change PHY to PMA. P40-43 L49 # [15] Law Comment Type TR Comment Status A Npo SuggestedRemedy Comment Status A Npo Change PHY to PMA. P40-43 L49 # [15] Camment Type TR Comment Status A Npo SuggestedRemedy <td>Proposed Response Response Suggested/Removes ACCEPT. Suggested/Removes Suggested/Removes Suggested/Removes Comment Status A Comment Type E Comment Status C ACCEPT. Comment Status A Proposed Response Response Status C ACCEPT. Comment Status A Proposed Response Response Status C ACCEPT. Comment Status A C140 SC 40.4.2.3 P40-43 L47 Vipo SC 40.4.2.3 P40-43 L47 Vipo Suggested/Removes Response Status C Cit 40 SC 40.4.2.3 P40-43 L47 Yz Vipo Sc 40.4.2.3 P40-43 L47 Yz Cit 40 SC 40.4.2.3 P40-43 L49 Yipo Suggested/Remove Response Status C ACCEPT IN PRINCIPILE. Comment Type E Comment Status A Vipo Sc 40.4.2.3 P40-43 L49 Yipo Suggested/Removic <td< td=""><td>• · · · · · ·</td><td></td><td>40.4.6). Suggest that tx_enable should be used instead as this is passed</td></td<></td>	Proposed Response Response Suggested/Removes ACCEPT. Suggested/Removes Suggested/Removes Suggested/Removes Comment Status A Comment Type E Comment Status C ACCEPT. Comment Status A Proposed Response Response Status C ACCEPT. Comment Status A Proposed Response Response Status C ACCEPT. Comment Status A C140 SC 40.4.2.3 P40-43 L47 Vipo SC 40.4.2.3 P40-43 L47 Vipo Suggested/Removes Response Status C Cit 40 SC 40.4.2.3 P40-43 L47 Yz Vipo Sc 40.4.2.3 P40-43 L47 Yz Cit 40 SC 40.4.2.3 P40-43 L49 Yipo Suggested/Remove Response Status C ACCEPT IN PRINCIPILE. Comment Type E Comment Status A Vipo Sc 40.4.2.3 P40-43 L49 Yipo Suggested/Removic <td< td=""><td>• · · · · · ·</td><td></td><td>40.4.6). Suggest that tx_enable should be used instead as this is passed</td></td<>	• · · · · · ·		40.4.6). Suggest that tx_enable should be used instead as this is passed
ACCEPT. FALSE: Add the variable its, enable to the variable its (40.4.1), this should read to the variable its (40.4.1), this the should read to the variable its (40.4	ACCEPT. FAGE Add the variable its, cenable to the variable its (40.4.1), this should read the bit of the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read the bit, enable to the variable its (40.4.1), this should read			SuggestedRemedy
CI 40 SC 40.4 P40-42 L1 # 75 Brad Booth Comment Status A Page 40-35, line 8. Comment Type E Comment Status A Response Status C Heading could be much simpler SuggestedRemedy = change to *40.4 Physical Medium Attachment (PMA) sublayer* Proposed Response Response Status C ACCEPT. Cl 40 SC 40.4.2.3 P40-43 L47 # 27 Cl 40 SC 40.4.2.3 P40-43 L47 # 27 Rich Seifert Comment Status A This subclause covers only the PMA, not the entire PHY. SuggestedRemedy SuggestedRemedy Change PHY to PMA. Proposed Response Response Status C ACCEPT. Cl 40 SC 40.4.2.3 P40-43 L49 # 15 Kich Seifert Comment Type E Comment Status A WpP SuggestedRemedy SuggestedReme	CI: 40 SC: 40,4 P40-42 L1 # 75 Stard Booth Comment Status A Padeading could be much simpler Response Status C SuggestedRemedy = change to '40.4 Physical Medium Attachment (PMA) sublayer* Proposed Response Response Status C ACCEPT. Ci 40 SC 40.4.2.3 P40-43 L47 # 27 SuggestedRemedy Change PHY to PMA. Pad-43 L47 # 27 Change PHY to PMA. Proposed Response Response Status A to ypo SuggestedRemedy Change PHY to PMA. Proposed Response Status C ACCEPT. Ci 40 SC 40.4.2.3 P40-43 L49 # 15 Roh Seifert Comment Type TR Comment Status A to ypo Cornment Type TR Comment Status A to ypo suggestedRemedy SuggestedRemedy Sugge			FALSE'. Add the variable tx_enable to the variable list (40.4.4.1), this
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Toposed Response Charles C	ACCEPT IN PRINCIPLE.	this BER must be achieved.		
ACCEPT IN PRINCIPLE.		Proposed Response Response Status C		ACCEPT.
	Use text "Uver a channel meeting the requirements of 40.7."			

C/ 40 SC 40.4.6 Brad Booth	P 40-49	L	# 65	C/ 40 SC Law	40.5	P 40-50	L 3	# 138
Comment Type E	Comment Status A			Comment Type	Е	Comment Status A		
	ired as service interface was spe are not part of the PMA service		he draft, and the	The managen Interface, see		ns are provided by the MII Man	agement	
SuggestedRemedy				SuggestedRemed	ły			
Remove 40.4.6.						ded by the Media Independent		
Proposed Response ACCEPT.	Response Status C			Interface (Clai Interface (22.2		uld read ' provided by the M	II Management	
ACCEPT.				Proposed Respor	ise	Response Status C		
C/ 40 SC 40.4.6	P 40-49	L 31-52	# 4	ACCEPT.				
Rich Seifert				C/ 40 SC	40.5.1.1	P 40-51	L17	# 140
Comment Type E	Comment Status A			Law				-
This subclause is a rep	plication of the material in 40.2 (a	although with LES	SS information).	Comment Type	Е	Comment Status A		
SuggestedRemedy				typo				
Delete the subclause e	entirely.			SuggestedRemed	ły			
Proposed Response ACCEPT.	Response Status C				read ' MAS	TER-SLAVE configuration Ena STER-SLAVE Manual Configu		'
C/ 40 SC 40.4.6 Law	P 40-49	L 52	# 134	Proposed Respon	ise	Response Status C		
	0			ACCEPT.				
Comment Type E typo	Comment Status A			-	40.5.1.1	P 40-51	L 22 & 25	# 141
SuggestedRemedy				Law				
	STATUS.request' should read			Comment Type	E	Comment Status A		
'PMA_TXENSTATUS.	.request'.			typo				
Proposed Response	Response Status C			SuggestedRemed				
ACCEPT IN PRINCIP Term deleted	PLE.			Change two ir '1000BASE-T		'1000Base-T' in Name column	to	
				Proposed Respor	ise	Response Status C		
				ACCEPT.				

C/40 SC 40. _aw	.5.1.1 P40-51	L 28	# 139	C/ 40 SC 40.5.2 P40-54 L 24 # 143
<i>Comment Type</i> E It is normal to ma	E Comment Status A ark reserved bits as write as 0, ignore o ed (see 22.2.4.1, bit 0.5:0 for example)			Comment Type E Comment Status A typo
SuggestedRemedy	'Reserved' in description should read			SuggestedRemedy Suggest text ' 40-5is' should read ' 40-5 is '. Proposed Response Response Status C
Proposed Response ACCEPT.	Response Status C			ACCEPT.
C/ 40 SC 40.	.5.1.2 P40-53	L12	# 112	C/ 40 SC 40.5.2 P40-55 L 33 # 113 Zweig
definition of M10: SuggestedRemedy	ufficiently well-defined that "8" is a clea	ar		Comment Type T Comment Status A I have two issues with this paragraph. First, the discussion appears to be about pseudorandom sequences, not truly random seeds. Secondly, the second half (from "A seed counter shall") of the paragraph almost makes it sound like the same 7 values of pseudorandom number could be used over and over (which is
roposed Response ACCEPT IN PRI	Response Status C			absurd). SuggestedRemedy Change "random" to "pseudorandom" throughout.
7 40 SC 40 . aw	5.1.2 P40-53	L 20	# 142	Break into two paragraphs, with the seed-counter material in the second. Add a requirement that the same seed value shall not appear twice in the sequence more closely than every 2**10 values.
omment Type E typo uggestedRemedy				Proposed Response Response Status C ACCEPT IN PRINCIPLE. Use term "random or pseudorandom"
Missing close pai duplex)'	renthesis, text should read '			reject request for additional requirement
Proposed Response ACCEPT.	Response Status C			C/ 40 SC 40.5.2 P40-55 L 44 # 144 Law
2/ 40 SC 40 . Lich Seifert	.5.2 P40-54	L 24	# 18	Comment Type E Comment Status A typo
Comment Type E Missing space	E Comment Status A			SuggestedRemedy Suggest text 'MAS TER' should read 'MASTER'.
SuggestedRemedy Insert a space be	etween "Table 40-5" and "is defined".			Proposed Response Response Status C ACCEPT.
Proposed Response ACCEPT.	Response Status C			

~						~	D 40 55		
C/ 40 Zweig	SC 40.5.2	P 40-56	L 4	# 114	C/ 40 So Law	C 40.6.1.1	P 40-57	L15	# 152
omment 7	Type E	Comment Status A			Comment Type	T Com	nment Status A		
		ink_status" is imprecise, sin d usage of the verb to "fail".	ce		designation	in the 60000 series.	all existing publications Thus IEC 60 became	EC 60060, IEC	
lggestedl							-1998 has been publish ould make these correct		nanges
	e "by failing link_ atus to FAIL,"	_status" to "by setting			SuggestedRem	edy			
roposed F ACCEF	Response PT.	Response Status C			Also on:- Page 40-57 Page 40-57	, Line 19			
40 ch Seifert	SC 40.6 t	P 40-57	L 5-6	# 19	Page 40-57 Page 40-80 Page 40-90	, Line 10 , Line 5			
mment 1	Type TR	Comment Status A				S references to the a			
(MII). A	Iso, there is no re	ot define any signal as a "grou quirement to provide either a (GMII *or a chase		Proposed Responses ACCEPT.	onse Resp	onse Status C		
sudcial	use requires eitnei	r a GMII ground or a chassis g	round.		C/ 40 SC	C 40.6.1.1.1	P 40-58	L19	# 115
point fo	or common-mode t	m to solve. I understand what ests can be quite implementa ind", but then I could slip by th	tion-specific. Yo	u could reference	Zweig Comment Type	E Corr	nment Status A		
impeda to the lo betwee	ance connection be ogic reference of the en logic and earth i	etween my product and earth. ne device, this penalizes anyo	If you instead re	eference CM signals	way of interpattenuation	preting English) a va to violate 40.7.2.1 at	ncorrect, since (in the us lue of y that causes the some frequencies wou ate it at all frequencies.		
uggestedl Discuss	-	olving the specification issue.	will work with t	ne Task Force	SuggestedRem				
towards	s this end.	0				h the positive as: "r all frequencies" (2	neets the requirements places)	in	
Proposed F ACCEF See 20	, PT IN PRINCIPLE	Response Status C			Proposed Resp	onse Resp	onse Status C ge to "any frequency"		
/ 40	SC 40.6.1.1	P 40-57	L12	# 20		C 40.6.1.1.2	P 40-58	L 32	# 145
ich Seifert	t				Law				
comment 7		Comment Status A			Comment Type	E Com	nment Status A		
		o have a frame ground.			Suggest rev it clearer.	vord of last two sente	ences of this paragraph	would make	
uggestedl Change		o "frame ground (if any)".			SuggestedRem	edy			
Onlange	5	0					aphs with the text 'PHY leans to enable these m		22000
Proposed F	Response PT IN PRINCIPLE	Response Status C			testing'.	vili shali provide a m			lance

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

Page 20 of 29 C/ 40 SC 40.6.1.1.2

C/ 40 SC 40.6.1 Zweig	.1.2	P 40-59	L 2	# 116	C/ 40 Rich Seifert	SC 40.6.1.1.3	B P40-64	L 4	# 21
Comment Type T My understanding of relative phase of the each of the test mod output the nonzero s crosstalk) or locked the other pairs could that there might be a implementations if sc and others out-of-ph	symbols on each of es matters. Either t ymbols simultaneo out-of-phase (so th be measured). Ott pples-to-oranges of ome test modes are	suggests that the of the 4 pairs in the test mode sh usly (to maximiz at the impact on herwise, it seems comparisons betw	iould e s ween		for tech This is p40-81 SuggestedI Move th	es are generally nical notes. Tecl a global commer In 38, p40-82 In Remedy ne footnote to a te	ext Note.	ded in the running	text, as a "Note".
SuggestedRemedy					Proposed F ACCEF	•	Response Status C		
Define the relative pl output in each test m like "Each channel c would be sufficient, u out-of-phase.	ode on each of the	e channels. A se e sequence simu	ntence Iltaneously."		Cl 40 Law Comment 1	SC 40.6.1.2	P 40-65 Comment Status A	L7	# 148
Proposed Response	Response S	Status C				ct cross-refrence			
Already done See page 40-59 line Cl 40 SC 40.6.1 Law Comment Type E		P 40-60	L 26	# [146	transmi the text	t function. As the ' Transmit fun it function speci Response	function, 40.4.2.2 is the PM e text is referring to the PMA ction specified in 40.3.1.3 fied in 40.4.2.2'. Response Status C	Tx function sugge	est
typo					C/ 40	SC 40.6.1.2.1	P 40-65	L 30 & 31	# 149
SuggestedRemedy					Law				
					Comment 1		Comment Status A		
Proposed Response ACCEPT.	Response S	status C				t reword of the s			
Cl 40 SC 40.6.1 Law Comment Type E	.1.2 Comment S	P 40-61 Status A	L2 & 26	# [147	of the a less that	st text ' shall di bsolute values o in 2%.' should re e of the absolute	ffer from 0.5 times the avera f the peaks of the wave form ad shall differ less than 2% values of the peaks of the w	at points A and B from 0.5 times the	
typo					Proposed F		Response Status C		
SuggestedRemedy Remove the title from they already have co			them.		ACCEF	РТ.			
Proposed Response ACCEPT.	Response S								

Zweig	SC 40.6.1.2.3	P 40-68	L 9	# 117	C/ 40 SC 40.6.1.3 P40-76 L 34 # 150 Law
electro	Type E Comm alues in Tables 40-10 and 4 inically. I would suggest hav DF file for the electronic ver	ing a .TXT file apper	nded to		Comment Type T Comment Status A Incorrect cross-reference SuggestedRemedy
made a	available on a Web site. stedRemedy =	,			40.3.1.4 is the PCS RX function, 40.4.2.3 is the PMA receive function. As the text is referring to the PMA Rx function suggest the text ' Receive function specified in 40.3.1.4' should read '
Suggestea	lRemedy				Receive function specified in 40.4.2.3'
Proposed ACCE	, ,	nse Status C			Proposed Response Response Status C ACCEPT.
In addi 1. Pos					C/ 40 SC 40.6.1.3.1 P40-76 L43 # 24 Rich Seifert
C/ 40 Thompson	SC 40.6.1.2.4	P 40-73	L15	# 100	 Comment Type TR Comment Status A The frame loss rate specified does not correspond EITHER to a 10^-10 symbol error OR a 10^-10 BER. This affects 40.6.1.3.4, p40-78 ln 2-3 also.
Furthe most c	ditor's Note" on lines 14-16 r, there is no normative reference in the reference of the sector of th	erence to "MATLAB"	and access to it is		SuggestedRemedy Change the measurement requirement to a frame loss rate of less than 10^-7 for 125 frames (2 places), which at least corresponds to the correct BER. Proposed Response Response Status C
	Remedy				ACCEPT. With 125 octet frames
Suggested Remov Add a			ent information in t	he	ACCEPT.
Suggested Remov Add a norma	Remedy ve the "Editor's Note" on lin normative reference to MA tive reference section. Response Respo		ent information in t	he	ACCEPT. With 125 octet frames C/ 40 SC 40.6.1.3.1 P40-76 L43 # 23
Suggested Remov Add a norma Proposed a ACCE	IRemedy ve the "Editor's Note" on lin normative reference to MA tive reference section. Response Respo PT. SC 40.6.1.2.4	TLAB and procureme	ent information in t L 15-16	he # 22	ACCEPT. With 125 octet frames C/ 40 SC 40.6.1.3.1 P40-76 L43 # 23 Rich Seifert Comment Type E Comment Status A
Suggesteo Remov Add a norma Proposed A ACCE C/ 40 Rich Seifer Comment IEEE 8	IRemedy ve the "Editor's Note" on lin normative reference to MA' tive reference section. Response Respo PT. SC 40.6.1.2.4 t	TLAB and procureme nse Status C P40-73 nent Status A	L 15-16	# 22	ACCEPT. With 125 octet frames C/ 40 SC 40.6.1.3.1 P40-76 L 43 # 23 Rich Seifert Comment Type E Comment Status A The term "bring up" is undefined slang. SuggestedRemedy
Suggestea Remov Add a norma Proposed I ACCE C/ 40 Rich Seifer Comment IEEE 8 specifi	IRemedy ve the "Editor's Note" on lin- normative reference to MA tive reference section. Response Respo PT. SC 40.6.1.2.4 rt Type E Comm 302.11 distributes a floppy of cation of their MAC	TLAB and procureme nse Status C P40-73 nent Status A	L 15-16	# 22	ACCEPT. With 125 octet frames C/ 40 SC 40.6.1.3.1 P40-76 L43 # 23 Rich Seifert Comment Type E Comment Status A The term "bring up" is undefined slang. SuggestedRemedy Change to "reset completion" or another appropriate term. Proposed Response Response Status C
Suggested Remov Add a norma Proposed I ACCE C/ 40 Rich Seifer Comment IEEE 8 specifi Suggested	IRemedy ve the "Editor's Note" on lin- normative reference to MA tive reference section. Response Respo PT. SC 40.6.1.2.4 rt Type E Comm 302.11 distributes a floppy of cation of their MAC	TLAB and procureme nse Status C P40-73 nent Status A lisk with their standar	L 15-16 rd containing the f	# 22	ACCEPT. With 125 octet frames C/ 40 SC 40.6.1.3.1 P40-76 L43 # 23 Rich Seifert Comment Type E Comment Status A The term "bring up" is undefined slang. SuggestedRemedy Change to "reset completion" or another appropriate term. Proposed Response Response Status C

2/40 SC	40.6.1.3.3	P 40-77	L13-14	# 52	C/ 40	SC 40.6.1.4	P 4-78	L 26-50	# F	
Rich Seifert	40.0.1.3.3	P40-77	L 13-14	# 53	Rich Seifert	5C 40.6.1. 4	P 4-70	L 20-30	# 5	
omment Type	T Commen	t Status A			Comment Typ	e E Co	mment Status A			
It is unclear wh or not.	hether the copper refer	ence plane should	be connected to a	n earth reference	This subcl not PMA.	ause (and all include	ed subclauses) belongs	in the section on	MDI specifications,	
uggestedRemed	ły				SuggestedRer	nedy				
Clarify whethe	er or not the plane shou	ld be connected to	o an earth reference	Э.	Move this	and all included sub	clauses to the appropria	ate place within 40	.8.	
Proposed Respon ACCEPT IN P	,	e Status C			Proposed Res ACCEPT.		ponse Status C			
	arifyimplicit connectior ane of test fixture	ns between chassi	is grounds of equip	ment under test	CI 40 S Rich Seifert	SC 40.6.1.4.4	P 40-80	L	# 78	
/ 40 SC /	40.6.1.3.3	P 40-77	L3-20	# 151	Comment Type	e TR Co	mment Status A			
aw A T	-				There is a requirement for shorts of any individual pair, but no requirement to protect against shorts between pairs, which may be a common occurrence. SuggestedRemedy					
omment Type	T Comments to be no reference in the second	t Status A								
shown in the a	associated diagram (40 nected between two 10	-25). Also the text	states that the	ated in	Include a requirement for fault tolerance for shorts of any wire to any other wire within a 4- pair cable.					
	or plug specified in 40.8				Proposed Response Response Status C ACCEPT IN PRINCIPLE.					
the Balun fits I necessary.	in this arrangement. Su	lggest that this be	clarified if							
uggestedRemed	lv				Already in	1				
see comment	,				C/ 40 S	SC 40.6.1.4.4	P 40-80	L 3	# 40	
oposed Respon	nse Response	Status C			Rich Seifert					
ACCEPT IN P	,				Comment Typ	e E Co	mment Status A			
Delete baluns		n			The term " not system	•	ndefined. The MDI com	nprises a connecto	or with wire pairs,	
Bob Campbell	I to provide choke data	(and baluns data i	n annex)		SuggestedRer	nedy				
ensure that po	pinter mentions clamp, l	baluns and choke	data are in annex		Change "E term.	Each duplex port of the	ne MDI" to "Each wire	pair of the MDI" of	or other appropriate	
ich Seifert	40.6.1.3.3	P 40-77	L 4	# 25	Proposed Res ACCEPT.		ponse Status C			
omment Type CM noise is ge	E Comment enerated by ANY EM fi	nt Status A ield, not iust high-e	enerav ones.		AUGEI I.					
uggestedRemed	-		3,							
	-energy" to "electromag	gnetic".								
proposed Respon	nse Response	Status C								

C/ 40 SC 40.7.2	P 40-81	L 29	# 79	C/ 40 SC 40.8	P 40-85	L 3	# 52
Rich Seifert				Brad Booth			
Comment Type E Delete the word, "Also	Comment Status A			Comment Type E Paragraph is confusin	Comment Status A		
SuggestedRemedy				SuggestedRemedy			
					uires a crossover function in a D		on. See 40.x.x
Proposed Response	Response Status C			•	optional auto crossover function	."	
ACCEPT.				Proposed Response ACCEPT.	Response Status C		
C/ 40 SC 40.7.4	P 40-83	L 45	# 80				
Rich Seifert				C/ 40 SC 40.8.1	P 40-85	L 8	# 101
Comment Type E	Comment Status A			Thompson			
	Is is properly assembled" to "	four channels o	can be properly re-	Comment Type E	Comment Status A		
assembled"					-way connector spec uses the ole t match the reference clause call		
SuggestedRemedy				connector spec in IEE	E Std. 802.3 1998 Edition. but Database does not allow "E	·	
Proposed Response	Response Status C			SuggestedRemedy			
ACCEPT.				Change to IEC 60603			
C/ 40 SC 40.7.5	P 40-84	L11	# 81		litional instances of this error tho bbal search on the string "IEC".	ughout the rest of	
Rcih Seifert	7 40-04	211	# 01	Proposed Response	Response Status C		
Comment Type E	Comment Status A			ACCEPT.			
	to "interference" (Delete "apostr	ophe-s").		C/ 40 SC 40.8.1	D 40 05	10.0	# 450
SuggestedRemedy				C/ 40 SC 40.8.1 Law	P 40-85	L 8 - 9	# 153
,				Comment Type T	Comment Status A		
Proposed Response	Response Status C				EC issues all existing publication	sa	
ACCEPT.				designation in the 600	00 series. IEEE 802.3-1998 has	been published with	
C/ 40 SC 40.7.5	P40-84	L 34	# 440	these changes made, now.	I believe that 802.3ab should ma	ke these corrections	5
Zweig	<i>г</i> 4 ∪-0 4	∟ 34	# 118	SuggestedRemedy			
Comment Type E	Comment Status A			,	-7' should now read 'IEC		
	ncomplete. It isn't clear from it			60603-7:1990'.			
that the interference is w	with another symbol on the same	9		Proposed Response	Response Status C		
channel at some other p	point in time.			ACCEPT.			
SuggestedRemedy							
Add the words "on the s end of item (d).	same channel" before the period	at the					

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

C/ 40 Brad Booth	SC 40.8.3	P 40-86	L	# 76	C/ 40 Brad Booth	SC 40.8.3.1.2	2	P 40-87	L 41	# 67
Comment Ty	vpe TR	Comment Status A			Comment 7	vpe TR	Comment Sta	otus A		
Sub-clau	use 40.8 descrit	bes the MDI, but it cannot descr ate machine requires access to			There is linkpuls	s no explanation e which is an int	as to how the aut ernal variable with	to crossover s		
SuggestedR	Remedv				Suggested	2	to Clause 28 (and	La description	in Clause 40) th	at parmita the
).8.3 to 40.4.3.3						to Clause 28 (and variable from the			iai permits trie
Proposed Re ACCEP		Response Status C			"28.2.6 This pri transmi	3 PMA_LINKPL mitive is generat tted in complian	JLSE.request ted by Auto-Nego ce with Figure 14-	tiation to indic 12 has been	ate that a valid L	ink Pulse as
7 40 Thompson	SC 40.8.3	P 40-86	L17	# 102	PMA_L The link	INKPULSE.requise paramete	r shall assume or	ne of two value		SE.
impleme 802.3 ha This text aceptabl configur: SuggestedR 1. Chan required a) A swi b) A con 2. Elimir Proposed R ACCEP Work wi	as never been a entation of 802.3 as always been t should not be he ation method is <i>Remedy</i> ge the text so th the preferred m tch on the box f nector adapter hate the problem <i>esponse</i> T IN PRINCIPL ith option 1	at the term "crossover cable" is nethods are: or MDI/MDI-X that provides a cross-over funct o entirely. Make it non-optional, i <i>Response Status</i> C E.	ecommendation of og crossover cab cables are an tional automatic e eliminated. If tion i.e. mandatory	of les.	The link valid Lin 28.2.6.3 The Au respond Upon p (mr_au issued includin is imple 28.2.6.3 The effi depend Change "linkpul This va	epulse=TRUE m hk Pulse has bee 3.2 When generato- to-Negotiation fu d, in accordance ower-on or reset toneg_enable=tr to all technology g at power-on o mentation deper 3.3 Effect of receipt of t ent PMA function e linkpulse defini se riable is defined	en received. ated unction shall gene with the state dia t, if the Auto-Nego ue) the PMA_LIN -dependent PMAs r reset, the state of hedent. eipt his primitive shall n, based on the in tion in 28.3.1 to re	I by the Auto-I rate this primi gram of Figur triation functio IKPULSE.reques. If Auto-Neg of PMA_LINK be governed thent specified ead:	Negotiation funct tive to indicate to re 28-15. In is enabled uest(FALSE) me otiation is disable PULSE.request(by the receiving d in the primitive	ssage shall be ad at any time linkpulse) technology- semantics."
		o explain how to perform the cro by modifying text from T4.	Proposed Response Response Status C ACCEPT.							

C/ 40 Brad Booth	SC 40.8.3.1.2	2 P 40-87	L 45	# 66	C/ 40 Thompson	SC 40A.2	P 40A-119	L 6	# 105				
Comment 7	ype E	Comment Status A			Comment T	ype E	Comment Status A						
The reference to 36.2.5.1.3 should not be used as this POWER_ON variable has no relationship to 1000BASE-X. SuggestedRemedy Change to read: "POWER_ON Condition that is true until such time as the power supply for the device that contains the						through line 27. The drawing style of this drawing is a significant departure from elsewhere in the standard, particularly with respect to line weight. This is true to such an extent that these 2 figures stick out like a sore thumb. <i>SuggestedRemedy</i> Redraw with lighter line weights. Fig 14-2 while not particularly beautiful							
		perating region. The condition is ntrol register bit 0.11.	s also true when	the device has low		•	ne same type of diagram.						
Values: TRUE;	FALSE; The de	vice is completely powered (de not been completely powered.		- Maria and an an Partition	Proposed F ACCEF	,	Response Status C						
NOTE- set."	-POWER_ON 6	valuates to its default value in	each state wher	e it is not explicitly	C/ 40	SC 40B.	P 40B-120	L 10	# 106				
Proposed F	Response	Response Status C			Thompson								
ACCEF	PT.				Comment T	ype E	Comment Status A						
CI 40 Rich Seifert		P 40-89	L 3-4	# 83	The reproduction quality of Figure 40B-1 is very poor. In particular the quality of the text reproduction in the figure is abysmal. Since it is my suspicion that the source of the figure is the same as that of Figure 40B-2 this seems like a problem that should be fixable. SuggestedRemedy Import figure 40B-1 on something other than a bit-map basis or at least jump the resolution to that used in Figure 40B-2. On closer inspection 40B-2 isn't all that great either but it sure is better than 40B-1.								
Comment 7		Comment Status A											
indicate MDI! Th	es that it is not ne ne only PCS or F	ne MDI specifications within the ecessary to expose any PMA in PMA interface that may or may al. In addition, the requirement	terface, which w not be exposed	rould include the is the GMII, which is									
conform		already present elsewhere in t			Proposed F ACCEF	'esponse 'T IN PRINCIPI	Response Status C						
Suggested	2					00 -							
	the entire subcla				C/ 40 Brad Booth	SC Fig 40-1	Da P40-39	L	# 35				
Proposed Response ACCEPT. Link to comment 5N		se Response Status C nt 5Move MDI specs to single location				Comment Type TR Comment Status A "receiving" variable no longer exists SuggestedRemedy							
					change	"receiving" to "	1000BTreceive"						
					Proposed F ACCEF	•	Response Status C						

C/ 40 SC Fig 40-13 P 40-42 L 40-49 Rich Seifert <	# 13	C/ 40 SC Fig 40-5 P 40-15 L 18,41 # 14 Rich Seifert					
Comment Type E Comment Status A Move the vertical line indicating "MDI" to the left, to properly align with	n the MDI signals.	Comment Type E Comment Status A Change "TX_EN" to "tx_enable" (the proper name for the signal in the PCS).					
SuggestedRemedy		Elimiate extraneous left arrow on line 41. SuggestedRemedy					
Proposed Response Response Status C ACCEPT IN PRINCIPLE. Figure redrawn		Proposed Response Response Status C					
C/ 40 SC Fig 40-29 P 40-80 L 12-22	# 77	ACCEPT. Figure redrawn					
Rich Seifert Comment Type E Comment Status A		C/ 40 SC Fig 40-8 P 40-37 L # 12					
In 1000BASE-T, the DUT has both a driver AND a receiver on each	wire pair.	Comment Type E Comment Status A					
SuggestedRemedy Show a transceiver in the figure, rather than just a driver symbol.		Move the exit condition for the "Disable Data Transmission" state closer to the exit line. It would be clearer if the "Else" exit condition for the "Enable Data Transmission" state were labeled "tx_mode = SEND_N".					
Proposed Response Response Status C ACCEPT IN PRINCIPLE.		SuggestedRemedy					
C/ 40 SC Fig 40-3 P 40-5 L 39-47 Rich Seifert <td># 47</td> <td>Proposed Response Response Status C ACCEPT.</td>	# 47	Proposed Response Response Status C ACCEPT.					
Comment Type E Comment Status A The MDI vertical aligns with "AutoNegotiation" rather than the MDI.		C/ 40 SC Figure 40-13 P 40-42 L # 61					
SuggestedRemedy Move the vertical line to properly align with the MDI.		Comment Type TR Comment Status A Auto-negotiation is not part of the PMA sublayer					
Proposed Response Response Status C ACCEPT. Figure redrawn		SuggestedRemedy Remove arrows and "PMA" at the bottom of the figure					
C/ 40 SC Fig 40-4 P 40-13 L 30 Rich Seifert 30 <td># 50</td> <td>Proposed Response Response Status W ACCEPT.</td>	# 50	Proposed Response Response Status W ACCEPT.					
Comment Type E Comment Status A Eliminate extraneous horizontal line.		C/ 40 SC Figure 40-15 P 40-49 L 26 # 63					
SuggestedRemedy		Comment Type E Comment Status A					
Proposed Response Response Status C ACCEPT. Figure redrawn		Link should be in lower case. SuggestedRemedy change " Link_control and Link_status"to " link_control and link_status					
		Proposed Response Response Status C ACCEPT.					

C/ 40 SC Figure 40-3 P 40-5 L # 91 Brad Booth <th>C/ 40 SC Figure 40-5 P 40-15 L # 54 Brad Booth Figure 40-5 Figure 40-5</th>	C/ 40 SC Figure 40-5 P 40-15 L # 54 Brad Booth Figure 40-5 Figure 40-5					
Comment Type TR Comment Status A Diagram contains too much detail and incorrect information. Auto-negotiation is not part of	Comment Type E Comment Status A Miscellaneous arrow in the lower right hand corner					
the PMA, nor does it interface to the MDI.	SuggestedRemedy Remove.					
Change diagram to be similar to that used in Clause 24 and Clause 36. Proposed solution to be submitted to editor and reflector prior to ballot closing date.	Proposed Response Response Status C ACCEPT.					
Proposed Response Response Status W ACCEPT.	C/ 40 SC Figure 40-9 P40-38 L # 60					
C/ 40 SC Figure 40-4 P 40-14 L # 98	Brad Booth Comment Type E Comment Status A					
Comment Type TR Comment Status A	1000BTtransmit is missing the last "t" in states "1st CSReset VECTOR", "2nd CSReset VECTOR", "ESD1 VECTOR" and "ESD2_ext_1 VECTOR"					
Figure shows auto-negotiation as part of the PMA when in fact it is not. SuggestedRemedy Remove arrows indicating PCS, PMA and PHY from the bottom of the diagram	SuggestedRemedy Change "1000BTtransmi" to "1000BTtransmit"					
Proposed Response Response Status C ACCEPT.	Proposed Response Response Status C ACCEPT.					
C/ 40 SC Figure 40-4 P40-14 L # 64	C/ 40 SC Figure 40-9 P40-38 L14 # 59 Brad Booth					
Comment Type E Comment Status A	Comment Type TR Comment Status A Incorrect variable name used					
Miscellaneous line in the lower left hand corner of the figure. SuggestedRemedy Remove line	SuggestedRemedy Change "COL <= receiving" to "COL <= 1000BTreceive"					
Proposed Response Response Status C ACCEPT.	Proposed Response Response Status C ACCEPT.					
C/ 40 SC Figure 40-5 P40-15 L # 86	C/ 40 SC Table 40-12 P40-85 L # 82 Rich Seifert					
Brad Booth Comment Type E Comment Status A	Comment Type E Comment Status A The second column is completely redundant, and is not referenced in the text.					
TX_EN on the right hand side of the diagram doesn't come from the PCS TRANSMIT ENABLE block.	SuggestedRemedy Delete the column labeled "PHY".					
SuggestedRemedy Connect the TX_EN arrow on the right hand side to the TX_EN input on the left hand side	Proposed Response Response Status C					
	ACCEPT.					

						P80	2.3ab Draft 5.0 Comment
CI 40 Rich Seifer	SC Table 40-3	P 4	0-52	L 27	#	17	
Comment	Type E	Comment Status	Α				
	are extraneous chan places in the docume						n
Suggested	IRemedy						
Elimina	ate all change bars in	Clause 40, as it is	s all new	material.			
Proposed ACCE	,	Response Status	С				
CI 42	SC 42-3	P4	2-1	L 9	#	109	
Zweig							
Comment	Type E	Comment Status	Α				
The te of the I throug fine. TI wiring	eed for crossover cab xt in this sentence do bidirectional nature o h cabling connecting he crossover in 40.8 that is not straight-thi lerstand correctly). Th	es more harm than f the connection is two DTEs or a DT appears to be nee rough (it is actually	n good. N that stra E to a D ded to co an un-c	<i>A</i> y reading ight- CE will work ope with rossover,			
Suggested	IRemedy						
	xplanation that crosso plant swaps certain p		l if the ins	stalled			
Proposed ACCE	Response I PT IN PRINCIPLE.	Response Status	С				