CIO SCO	P	L	# i-138	CI 0	SC 0	Р	L	# [i-89
	Reutlingen U	niversty		RAN, A	JEE	Intel Corpo	ration	
Schicketanz, Dieter Comment Type GR in bz in the alin clause MHz due to niuse issu SuggestedRemedy It is done differently in Proposed Response REJECT. This comment was WI The commentor doe no	Reutlingen U Comment Status D there is a sentence that the	Jniversty calculation is do bit both standard ter.	Ca one up tp 100 and 20 ds should be harmor	RAN, Al Cabling Comme 000 The "ti required onized "The star equired fact the . The doe the . The doe the . The star equired fact doe doe the . The star equired fact doe doe the . The star equired fact doe the comme star equired fact doe the comme star equired fact doe the comme fact fact doe the comme doe the comme fact doe the comme fact doe the comme fact doe the comme fact doe the fact doe the comme fact doe the comme fact doe the comme doe the comme fact doe the comme fact doe the comme fact doe the comme fact doe the comme fact doe the comme fact doe the comme fact doe the comme fact doe the comme fact doe the comme fac fac the comme fac f comme fac f comme f comme f comme fac f comme f comme f com	DEE nt Type TR estyle manual says he use of the word uirements; must is e word may is used als is permitted to); als of deprecates u ". word "must" appea s not describe an u word "will" also appea word "may" is four "is permitted to". I y several allowed va c of "may not" which son for this comme) it points to a capa ignificant effort was ould be helpful for t tedRemedy oss the draft, change	Intel Corpo Comment Status A must is deprecated and sh used only to describe unav to indicate a course of act sage of the word "will" and ars in the draft in P114 L2, inavoidable situation, and s pears in some places not a nd in numerous places but n (P92 L18, P126 L25) it si alues, others values are no alues, others values are no is inconsistent (optional v nt being TR. In (P171 L17, ability or to natural phenom done in 802.3bx to clean t the next revision if this are ge "must" and "will" to "sha ord "may" in the listed locat	all not be used wi oidable situations ion permissible w says "will is only P122 L24, and P seems to be a ma as a statement of sometimes has a sems to be a norr t). In (P130 L8 an s. prohibitive) and P176 L14, P195 ena. he standard with endment adheres	Editoria nen stating mandatory "" within the limits of the used in statements of 148 L14. In all cases it ndatory requirement. fact. meaning inconsistent native statement (listing d L9, P149 L35) it is confusing - this is the L19, L26 and L27, P197 respect to these words. with the manual.
				P11 (Ed that that P12	CEPT IN PRINCIPL 4 L2 see comment itor's note added af two random fill bits two random fill bits 22 L24 describes a	Response Status C .E. .: I-73 to remove "must" ter comment resolution: Res s must be transmitted instead" desired state, not a require ve this. Delete "must" on P	ad" to read "(It) ment, what follow	is highly recommended

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 0
 Page 1 of 48

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 0
 2/7/2016 5:08:26 PM

 SORT ORDER: Clause, Subclause, page, line
 SC 0
 2/7/2016 5:08:26 PM

= TRUE".

P139 L3 delete "will"

P150 L36 and L37 change "will" to "shall" to read: "If the link partner requested THP bypass for fast retrain the PHY shall bypass the THP (or set THP coefficients to zero). Otherwise the PHY shall keep its THP turned on with its previously exchanged coefficients, and send PAM2 signaling within a time period equivalent to 9 LDPC frame periods." and update PICS.

P178 L6 change "will be used to refer" to "used in this clause refers"

P92 L18 replace "may take on" with "takes on"

P92 L19 replace "may additionally take on" with "additionally takes on"

P130 L8, L9 - change "may not" to "are not guaranteed to be" (L8) and "are not guaranteed to" (L9)

P149 L35 change "may not be" to "are not" to read: "The THP coefficients and PBO setting are not changed during PMA_Fine_Adjust."

P171 L17, P176 L14, P195 L27 change "may" to "can" P195 L19 and P197 L10 change "may be" to "are" P195 L26 delete "may"

CI 0	SC 0	P 0		L 0	# i-158
Turner, M	lichelle				
Comment This o	51	Comment Status editorial requirements.	Α		EZ
Suggeste	dRemedy				

Response

ACCEPT.

(Editor's note - added after comment resolution - no change to the draft required)

Response Status C

CI 0	SC	0	P 4	9	L 3	# i <u>-103</u>
Zimmerm	an, Geo	rge	Aqua	ntia, ar	ld CommS	
Commen	t Type	Е	Comment Status	Α		
Table	45-119	, entry f	or register 3.21, EEE o	ontrol	and capability 2 is	missing
Suggeste	dRemec	ly				
add e	entry for	register	3.21 to Table 45-119			
Respons	Э		Response Status	С		
ACC	EPT.					
C/ 1	SC	1.2	P 2	4	L 40	#
Rolfe, Be	njamin		Blind	Creek	Associate	
Commen	t Type	т	Comment Status	R		LATE - Definitio
			the requirements outl			
			3, Clause 14, Clause 2			
		,	dditional requirements SE-T, 25GBASE-T, and		0	,
			pecifies characteristics			
	longs in		poolinee enalacteriotie		amig boning rorori	ou to by the term and

description of the term in question and shall not contain any other information, such as requirements or elaborative text." (the use of "in addition" and "requirements" are clues either this is elaborative or stating requirements")

SuggestedRemedy

Delete text following first sentence.

Response Status C

REJECT.

Response

Text is consistent with other definitions for category cabling in IEEE 802.3-2016, and there are several.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 1 SC 1.2

C/ 1 SC 1	.4	P 24	L 21	# i-17	C/ 1	SC 1	.4	P 24	L 21	# <mark>i-161</mark>	
RAN, ADEE		Intel Corpora	tion		Law, Dav	d		Hewlett Pac	kard Enter		
listed as runnir P802.3by, and and i. SuggestedRemedy	as inserted by IEEE ng in parallel (IEEE I IEEE P802.3bz) I c	P802.3bn, IÉEE I ould not find any	P802.3bs, IEEE F one that inserted	later subclauses h	The e there 25GE Suggeste	entries that fore, assu BASE-T sh	uming the hould be	Comment Status A ing added by IEEE P802.3I at IEEE P802.3by will be a 1.4.64h.			<i>EZ</i> I.64g
Response ACCEPT. (imp [Editor's note a The resolution [1] The text '	Response elemented by i-161) added after commen to comment i-161 w into the list after 1.4	e Status C t resolution was o ras t.64i 25GBASE-R	completed: ? as inserted' b	e changed to read ' E P802.3by comment	into tl i-89 <http Page</http 	ne list afte ://ieee802 =3> is aco ne text '1.4 e	er 1.4.64 2.org/3/bj cepted c	list after 1.4.64i 25GBASE g 25GBASE-SR as inserte y/public/comments/8023by or ' into the list after 1.4.6 GBASE-T:' be changed t <i>Response Status</i> C	d' assuming IEI _D30_comment_r 4g 25GBASE-R as	EE P802.3by comn eceived_by_clause s inserted' if not.	nent e.pdf#
Page=3> is ac	2.org/3/by/public/con cepted or ' into the 4.64j 25GBASE-T:	e list after 1.4.64g	25GBASE-R as		C/ 1 Donahue,	SC 1 Curtis	.4	P 24	L 25	# i-121	
		P 24 Hewlett Pack	L 21 ard Enter	# [i-162	Comment Chan Suggeste	ge "25Gb		Comment Status A 5 Gb/s".			EZ
We normally pl				EZ another amendment in follows:'.	Response			Response Status C			
	/ xt ' as inserted by EE Std 802.3by-201)		by-201X' be chang	ged to read ' (as)	[Edito	mented b or's note a	added af	ter comment resolution was ent i-16 was:	s complete:		

C/ 1 SC 1.4

	25 <i>L</i> 1 lett Packard Enter	# <u>i-163</u>	C/ 1 SC 1.4.277 RAN, ADEE	b P 25 Intel Corporation	L 6	# <u>i-19</u>
Comment Type E Comment Statu As it now seems likely that IEEE P802.3bd addition should be updated.		EZ IEEE P802.3bn this	Comment Type E "(for both 25GBASE- Clause 113.	Comment Status A T and 40GBASE-T)" can be read	as if it refer	<i>Editoria</i> s to both Clause 55 and
SuggestedRemedy [1] The text ' after 1.4.277 mixing segme 802.3bn-201x) as' be changed to read '. [2] The text ' 1.4.277b MultiGBASE-T:' b [3] The editors box and text on line 8 be de Response Response Status ACCEPT.	after 1.4.277 mixing sec be changed to read ' 1.4.2 eleted. C	gment as'. 77a MultiGBASE-T:'.	Other clauses that de referenced without lis SuggestedRemedy	the nested parenthesis, the reference of the sublayers used in multiple ra- sting all relevant types. BASE-T and 40GBASE-T)". <i>Response Status</i> C		
Law, David Hew Comment Type T Comment Statu- Isn't a 'BASE-T Ethernet PCS/PMA' just a		# <mark>i-164</mark> EZ	C/ 1 SC 1.4.64j RAN, ADEE Comment Type E Missing space.	P 24 Intel Corporation Comment Status A	L 25	# [<u>i-16</u>
SuggestedRemedy Suggest that ' of specific BASE-T Etherr specific BASE-T PHYs at'. Response ACCEPT.		nanged to read ' of	SuggestedRemedy Change "25Gb/s" to Response ACCEPT.	"25 Gb/s". Response Status C		
RAN, ADEE Inte Comment Type E Comment Statu		# <mark>i-18</mark> EZ	C/ 105 SC 105.1.3 RAN, ADEE Comment Type T	P76 Intel Corporation Comment Status A	ב 11 ר	# [<u>i-37</u>
Superfluous comma between "IEEE Std 8 SuggestedRemedy Remove the comma. Response Response Status ACCEPT.			SuggestedRemedy	nly about transmitting. ting 25 Gb/s Ethernet over" to "fol <i>Response Status</i> C	r data comm	nunication at 25 Gb/s

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

C/ 105 SC 105.1.3 Page 4 of 48 2/7/2016 5:08:26 PM

C/ 105 SC 105.1.3	P 76	L 8	# i-174	C/ 105 SC	105.2	P 77	L 8	# <u>i-176</u>
Law, David	Hewlett Packa	rd Enter		Law, David		Hewlett Packa	rd Enter	-
25GBASE-R and befor	Comment Status A s read 'Insert the following part e Table 105-1' however there : D3.0 that reads 'Physical Lay t 25 Gb/s.'.	is already a p	aragraph at the location	PHY. SuggestedReme	edy	Comment Status A able 105-2 also be changed sin e correlation, 25GBASE-R' be		
SuggestedRemedy	tructions should read 'Insert th	o following p	w third porograph.			:/S> <u> 25 Gb/s Ethernet PHY</u>		
Response ACCEPT.	Response Status C	le following h	ew third paragraph	Response ACCEPT.		Response Status C		
C/ 105 SC 105.2	P 77	L3	# i-175	Cl 105 SC Law, David	C 105.3	P 77 Hewlett Packa	L 30 rd Enter	# i-178
Law, David <i>Comment Type</i> E Typo, 40GBASE-T sho	Hewlett Packa <i>Comment Status</i> A ould read 25GBASE-T.	ra Enter	EZ	Comment Type Typo. SuggestedReme	E edy	Comment Status A		EZ
	v for 40GBASE-T after 25GBA E-T after 25GBASE-SR'.	ASE-SR' sh	ould be changed to read	Suggest tha <i>Response</i>	t text ' o	f clause 105.3.6' be change Response Status C	d to read ' o	f subclause 105.3.6'.
Response ACCEPT.	Response Status C					fter comment resolution: "chan) to be consistent with style an		
C/ 105 SC 105.2 Hidaka, Yasuo	Р 77 Fujitsu Labora	L 8 tories of	# i-29					
Comment Type E Title of Table 105-2 inc	Comment Status A sludes 25GBASE-R.		BY alignment					
SuggestedRemedy Change 25GBASE-R v	vith 25GBASE in the title of Ta	able 105-2.						
Response ACCEPT. (implemente		omplete:						

C/ 105 SC 105.3

C/ 105 SC 105.3	P 77	L 32	# <u>i-177</u>	C/ 113 SC 1	13	P 79	L 1	#
Law, David	Hewlett Packa	ard Enter		Rolfe, Benjamin		Blind Creek A	ssociate	
Comment Type T Con The third paragraph of subcla Media Independent Interface optional interface, it is used es specification and provides a c	(25GMII)' of IEEE P80 xtensively in this stand	02.3by reads 'Whi dard as a basis fo	ile the 25GMII is an or functional	(LATE) Missing SuggestedRemedy	g editing instr	Comment Status R ructions sert the following sub-cla	use following cl	LATE - Editoria
107).'. With the addition of 25 limited to just the 25GBASE-F	BASE-T by IEEE P802			Response	0	esponse Status C		
SuggestedRemedy Based on the description of th interfaces' of IEEE P802.3by designed to connect a 25 Gb/	draft D3.0 that include /s capable MAC to a 2	es the statement t 5 Gb/s PHY' sug	hat The 25GMII is gest that following	and adds Claus	se 113 and A adding entire	es: "This amendment incl Annex 113A." new clauses do not gen	0	
change to the third paragraph 105.3.1 Reconciliation Sublay				C/ 113 SC 1 ⁴ RAN, ADEE	13.1	P 79 Intel Corporat	L 19 ion	# i-39
Change the third paragraph o	f subclause 105.3.1 as	s follows:		Comment Type	E C	Comment Status A		E
While the 25GMII is an option for functional specification and R PCS (Clause 107) a 25 Response Resp ACCEPT.	d provides a common			out of place. SuggestedRemedy Delete "both". Response	,	ings that are defined in the second status C	his clause, not ju	ust two. "Both" seems
for functional specification and R PCS (Clause 107) a 25 Response Resp ACCEPT. C/ 105 SC 105.5 Law, David	d provides a common 5 Gb/s PHY. <i>ponse Status</i> C <i>P</i> 78 Hewlett Packa	service interface	for <s> the 25GBASE- # [i-179</s>	out of place. <i>SuggestedRemedy</i> Delete "both".	Re		L 24	ust two. "Both" seems # [i-28
for functional specification and R PCS (Clause 107) a 25 Response Resp ACCEPT. C/ 105 SC 105.5 Law, David	d provides a common 5 Gb/s PHY. ponse Status C P 78 Hewlett Packs mment Status A	L 12 L 12	for <s> the 25GBASE- # [i-179 PMA/PMD</s>	out of place. SuggestedRemedy Delete "both". Response ACCEPT. Cl 113 SC 1 Hidaka, Yasuo Comment Type	7 Re 13.1 E C	esponse Status C	L 24 atories of	# [<u>i-28</u>
for functional specification and R PCS (Clause 107) a 25 Response Resp ACCEPT. C/ 105 SC 105.5 Law, David Comment Type T Cor I don't believe that there is a 2 T PMA (see Figure 113-1). SuggestedRemedy Suggest that '25GBASE-T PM	d provides a common 5 Gb/s PHY. ponse Status C P 78 Hewlett Packa mment Status A 25GBASE-T PMD, only	L 12 L 12 ard Enter y a 25GBASE-T I	for <s> the 25GBASE- # [i-179 <i>PMA/PMD</i> PCS and a 25GBASE-</s>	out of place. SuggestedRemedy Delete "both". Response ACCEPT. Cl 113 SC 1 ⁻ Hidaka, Yasuo Comment Type Reference to ta SuggestedRemedy Change the las Please refer to	Re 13.1 E C able for associations of sentence of Table 105-2 25 Gb/s systemetry 25 Gb/s systemetry	esponse Status C P79 Fujitsu Labora Comment Status A ciated sublayers and opt of second paragraph of cl and Table 80-2 for asso em with the 25GBASE-T	L 24 atories of ions is given onl ause 113.1 as fr ciated sublayers	# [<u>i-28</u> E ly for 40GBASE-T. ollows: s and options for

C/ 113 SC 113.1

C/ 113 SC 113.1 RAN, ADEE	P 79 Intel Corporati	<mark>८ 33</mark> ion	(# <mark>i-40</mark>	C/ 113 Thompson,	SC 113.1.1 Geoffrey	P 79 GraCaSI S.A.	L 48	# i-130
Comment Type T (It is not immediately clear negotiation. Only looking	Comment Status A			EZ Comment 7 There i	<i>Type</i> ER s a misspelling.	Comment Status A		EZ
with a different register ac SuggestedRemedy	the way auto-negotiation dress or without any regis	ter.		Suggested Change Response ACCEF	e "diffference" to	o "difference". Response Status C		
auto-negotiation".	of support in register 7.32" Response Status C	to advertising		C/ 113 RAN, ADE	SC 113.1.1	P 79 Intel Corporatio	L 50 n	# i-41
ACCEPT. C/ 113 SC 113.1. RAN, ADEE Comment Type E	P 87 Intel Corporati Comment Status A	26 ion	# <mark>i-53</mark>	Suggested EZ Change	nd 32-bit			EZ
"specifically specified" is r SuggestedRemedy Change to "unless specifi Response				Response ACCEF CI 113 Schicketan	SC 113.1.1	Response Status C (P 81) Reutlingen Univ	L 46 versty	# [i-133]
ACCEPT. C/ 113 SC 113.1.1 Donahue, Curtis	P 79	L 48	# i-124	used m	rameter S which	Comment Status A h is used to calculate the link fro the link formulas. But there tt is		
Comment Type E Change "diffferent" to "diff SuggestedRemedy See comment (remove th				Response		the definition of S Response Status C _E.		
Response ACCEPT. Implemented b	Response Status C y comment i-130 comment resolution was c t i-130 was:	complete:		Add at The pa	the end of the fi	irst paragraph in 113.7.2) ed in 113.7.2 to scale the data BASE-T, S = 1.)	rate for each I	PHY. For 25GBASE-T,

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

C/ 113 SC 113.1.1 Page 7 of 48 2/7/2016 5:08:26 PM

<mark>C/ 113 SC 113.1.3</mark> RAN, ADEE	P 80 Intel Corporation	<mark>L 43</mark> on	# <u>i-42</u>	<mark>C/ 113</mark> RAN, ADE	<mark>SC 113.1.3</mark> E	P 83 Intel Corpora	L1 ation	# <u>i-44</u>
Msymbol/s. Consistence	Comment Status A er second" is used, later in this by is preferred. (including clause 40) the unit i			In Fig	ure 113-3, note	Comment Status A 2 says items are shown in da ern is almost solid hatched lir		
abbreviation being GBo SuggestedRemedy	roughout the draft. Preferably,	nology.			boxes denote e	ear in the similar Figure 113- either of the optional capabilit		
	Response Status C E. hology within the clause. Msyr legasymbols per second" (2 in P 81 Intel Corporatio	nstances P80, L 25		instea In note Response ACCE Do no consis	d. e 2, change "on PT IN PRINCIF t change note 2 stent with existin	boxes dashed as in Figure 11 y required for EEE" to "only r <i>Response Status</i> C LE. , 'these capabilities' is unclea g 802.3 clauses. (fter comment resolution - ma	equired for these ar. EEE capabili	e capabilities".) ties are indicated and
should be abbreviated. SuggestedRemedy Change "two second" t	o either "two-second" or "2 s".		E. I to the style guide	Z note 2 C/ 113 RAN, ADE Comment	SC 113.1.3.		L 23	# [<u>i-45</u> <i>EZ</i>
Response ACCEPT IN PRINCIPL Change "two second" t				Suggested Chang Response ACCE	dRemedy ge to "192 8-bit : PT IN PRINCIF	Response Status C	e says to spell o	ut numbers less than

C/ 113 SC 113.1.3.1 Page 8 of 48 2/7/2016 5:08:26 PM

C/ 113	SC 113.1.3.1	P 84	L 25	# <u>i-46</u>		C/ 113 SC	113.1.3.1	P 84	L 34	# [<u>i-38</u>
RAN, ADEE	E	Intel Corporat	ion			Hidaka, Yasuo		Fujitsu Labor	ratories of	
Comment T	⁻ уре Е	Comment Status A			ΕZ	Comment Type	TR	Comment Status A		PCS
		ere to denote multiplication. <i>I</i> "x" is used again in page 98.	A slanted multip	lication character is		16 subsets	" is not co	n of clause 113.1.3.1 "The D onsistent with slide 9 of µ/3/an/public/sep04/ungerboo		ation is partitioned into
Comme	ent also applies	to Figure 113-8, Table 113-7	, Table 113-8, a	and 113.3.6.2.5		that is the ba	asis of DS	Q128 bit mapping described		aragraph of clause
SuggestedF	Remedy					113.3.2.2.21	-	ns, the four LDPC-coded bits	s and three RS-F	EC-coded (or uncoded)
Replace 55.1.3.1		ted multiplication signs to th	e multiplication	character (as in		bits are swap	oped.	clause 55.1.3.1 has the san		· · · ·
Response		Response Status C				change.				
ACCEP	РТ.					SuggestedReme	dy			
C/ 113 RAN, ADEE	SC 113.1.3.1	P 84 Intel Corporat	<i>L</i> 30 ion	# i-47		maximally sp	3 constella baced 2D s	tion is partitioned into eight s symbols. The three RS-FEC	-coded bits of ea	ich 7-bit label select one
Comment T	^г уре Е	Comment Status A		ŀ	PCS	subset.	set, and t	ne four LDPC-coded-bits of t	The label select o	one 2D symbol in this
		are obtained by concatenation				Response		Response Status C		
	ally spaced 2D s	among the 256 possible Cart ymbols."	esian product c	ombinations, 120		ACCEPT. Commenter	is recomm	ended to put in a maintenan	nce request on cl	ause 55.
		atim copy of a sentence in the cess of text; the repetition do								
SuggestedF	Remedy									
Delete of	one of the copie	s (preferably the first).								
Response		Response Status C								

ACCEPT IN PRINCIPLE.

Delete the sentence indicated in the first instance, 113.1.3 P80 L48.

C/ 113 SC 113.1.3.1

C/ 113 SC 113.1.3 RAN, ADEE	.1 P 84 Intel Corporati	<mark>/_ 40</mark> on	(# <mark>i-48</mark>)	C/ 113 SC RAN, ADEE	113.1.3.2	P 85 Intel Corpora	<mark>لا 28</mark> tion	# <mark>i-50</mark>
	Comment Status A unction are covered in 113.3" not seem to belong in this parag	graph, which de	Editorial eals with the PMA.	used in the t	raining mod	Comment Status A "or whether the PHY ser Je". But training mode affect d in normal mode) is disable	s the receiver b	ehavior too. Also, data
summary/overview).	aragraphs dealt with the PCS tr The next two paragraph summa and state diagrams are specified	arize the receiv		segment are	not operati	e latter occurs when either o ing reliably.", seems incorre g to do with reliablility.		
SuggestedRemedy Merge the two senter	ailed description should be put a nces "Details of the PCS functio iagrams are specified in 113.3" s subclause.	on are covered		to	n the PHY se g mode, in v	nds special PAM2 code-gro which it sends and receives 1."		Ŭ.
	sentence "The interface to the 113.2" to this final paragraph to		tract message-passing	In addition, e	either delete	e the last sentence of this pa	aragraph, or repl	hrase it so it becomes
Response ACCEPT IN PRINCI Implement suggester PMA" as suggeste	remedy as well as moving the	sentence "The	interface to the	Response ACCEPT IN Implement s occurs rel	uggested re	Response Status C E. emedy, deleting the last sen	tence of the par	agraph. ("The latter
C/ 113 SC 113.1.3 RAN, ADEE	.2 P 85 Intel Corporati	<mark>L 13</mark> on	<mark>#</mark> <mark>i-49</mark>					
Comment Type E "discrete time value"	Comment Status A can be confusing.		EZ					
SuggestedRemedy change to "discrete-ti	me value"							
Response ACCEPT.	Response Status C							

C/ 113 SC 113.1.3.2 Page 10 of 48 2/7/2016 5:08:27 PM

CI 113 SC RAN, ADEE	113.1.3.3	P 86 Intel Corpora	L 24 tion	(# <u>i-51</u>		<mark>(C/ 113</mark>) RAN, ADI		13.11	Ir	P 196 Ntel Corpora	L 27 ation	<mark>#</mark> <mark>i-97</mark>
Comment Type	T Comn	nent Status A			PCS	Comment	Type	TR	Comment Sta	atus A		Architecture
"Infofield" oc	ccurs here fore the fi	rst time. It has no c	lefinition in 1.4. \	What is it?								bit rates, the calculation
<mark>In 113.4.2.5</mark>	it is called "InfoField	d". Capitalization is	inconsistent acro	oss this draft.		<mark>5 (sha</mark>	ould be u	pdated to	to the different include 40GBA include 25GBASE	SE-T) and	f Bit Time. See Equation 105-1	Equation 80-1, Table 80- I, Table 105-3 (which
Also "link sta	artup" is vague. Infol	Fields are used in t	raining mode.			Suggeste						
SuggestedReme	ədy								tables and equa	tions.		
Provide a cr	oss reference (113.4	4.2.5). Consider add	ding a definition	in 1.4.								
Change "du	ring link startup" to "	in training mode".					Ŭ	structions	to add the BAS		to the tables.	
		-				Response ACCE			Response Sta	tus C		
Response		lization of "InfoField nse Status C	and make ther	n consistent.		[Edito	r's note (nment resolution ASE-T, and need			95-3 in 802.3bq D3.0]
Insert definit	PRINCIPLE. tion of Infofield to 1.4					C/ 113		13.2.2		P 90	<mark>/_1</mark>	# <mark>i-57</mark>
startup oper	sixteen octet frame ation by certain PHY	transmitted at regu	ilar intervals con 02.3 Clause 55 a	taining messages ind Clause 113)"	tor	Hajduczei	nia, Mare	k		right House	e Network	
						Comment		E	Comment Sta			EZ
Change all "	InfoField" to "Infofie	ld"						-	13-4, and other	figures in th	ne draft, are vei	ry dense.
C/ 113 SC	2 113.1.5	P 87	L 12	# i-52		Suggeste						
RAN, ADEE		Intel Corpora	tion			Pleas	e use les	ss dense	dashed line - it i	s hard to di	istinguish contii	nuous and dashed lines.
Comment Type	T Comn	nent Status R			MDI	Response			Response Sta	tus C		
	SE-T and 40GBASE		ations are compa	tible at the MDI" -	that	ACCE	PT.					
	at this sentence atter should be resphrase		IDI as the comp	atibiilty point. If th	at's							
SuggestedReme	ədy											
the 25GMII/2	SE-T and 40GBASE XLGMII, if implemen		ations are compa	tible at the MDI, a	ind at							
	tibility of 25GBASE- I at the 25GMII/XLGI		PHY implement	ations is specified	at							
Response	Respo	nse Status C										
REJECT. Language is	consistent with othe	er BASE-T PHYs sp	pecified in 802.3	bq.								

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

C/ 113 SC 113.2.2

Comment Type Comment Status EZ Comment Type Comment Status A In Figure 113-4, the optional signals appear in a thatched box. The exact same hatch attem appears in other places in the diagram, as an interface boundary. A Interest in the optional signals appear in a thatched box. The exact same hatch attem appears in other places in the diagram, as an interface boundary. A SuggestedRemedy Change the hatched pattern of this box in the NOTE: Response Status C Response Response Status C ACCEPT IN PRINCIPLE: Add pers data, mode and fr, active and their meanings (as in previpmittives). C1 113 SC 113.2.2 P 90 L 42 # [-56] Missing space in TRXC=30b, RXD=310b, TXC=30b, and TXD=310b, "between "," and "and". EZ Comment Type EZ AccEPT I. Prise Comment Status A CI 113 SC 113.2.2 P 118 L 11 # [-56] Missing space in TRXC=30b, RXD=310b, TXC=30b, and TXD=310b, "between "," and "and". Also, sentence finishes with "," and should with "." SuggestedRemedy Aquantia, and comms Aquantia, and comms CI 113 SC 113.3.2.2 P 118 L 11 # [-56] Also, sentence finishes with "," and should with "." SuggestedRemedy	<mark>-55</mark>	<mark>#</mark>	<mark>2 9</mark> Dn	orporation	P 96 Intel C	<mark>.2.11.1</mark>	SC 113.2.2	<mark>C/ 113</mark> RAN, ADEE		<mark>#</mark> <mark>i-54</mark>	<mark>/_3</mark> ո	P 90 ntel Corporati		SC 113.2.2	<mark>C/ 113</mark> RAN, ADEE
SuggestedRemedy Change the hatched pattern of this box in the NOTE; Consider adding indication of this box in the NOTE; Response Response Status C ACCEPT IN PRINCIPLE; No note needed, these relate to EEE and the use of dash has already been stated. (Editors note - after comment resolution - implement changing hatched pattern of this box to a dashed line) Response Catag_mode values to 113.2.2.1.1; C1 113 SC 113.2.2 P 90 L 42 # 1-56 Hajduczenia, Marek Bright House Network EZ Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>, 'between ',' and 'and'. ACCEPT. CI 113 SC 113.2.2 P 90 L 42 # 1-56 Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>, 'between ',' and 'and'. ACCEPT. Ci 113 SC 113.2.2 P 118 L 11 # E SuggestedRemedy Per comment Response Status C AccePT. Ci 113 SC 113.2.2 P 10 L 42 # 1-56 C1 113 SC 113.2.2 P 90 L 42 # 1-56 EZ Missing space in "RXC<3:0>, RXD<31:0>, 'between the second RXC-7:0> for 40 GBASE-T; SuggestedRemedy Corment Type E Comment Type Comment Status A SuggestedRemedy Bright House Network	PCS					of the primit	cs details of 13.2.2.12.1.	Semanti Also in 1			nterface bour	opear in a hate diagram, as a	ional signals r places in th	113-4, the optopears in othe	In Figure pattern a
Consider adding indication of this box in the NOTE. Response Response Status C ACCEPT IN PRINCIPLE. No note needed, these relate to EEE and the use of dash has already been stated. (Editors note - after comment resolution - implement changing hatched pattern of this box to a dashed line) CI 113 SC 113.2.2 P 90 L 42 # [:56] Hajduczenia, Marek Bright House Network Comment Type E Comment Status A EZ Missing space in "RXC-3:0>, RXD-31:0>, TXC-3:0>, and TXD-31:0>," between "," and "and". EZ Also, sentence finishes with "," and should with "." EZ SuggestedRemedy Per comment Per comment Response Response Status C ACCEPT. P 90 L 42 # [:58] CI 113 SC 113.2.2 P 118 L 11 # [: SuggestedRemedy Per comment C Comment Type E Comment Status A Response Response Status C ACCEPT. Comment Status A Text only mentions 25GMII, although it also speaks to XLGMII. "rx_coded-64:02 tren the 25GMI signals RXD-63:0- and RXC-7:0- for 40GBASE-T," SuggestedRemedy C1 113 SC 113.2.2 P 90 L 42 # [:58] Editorial "ray of thoor to	<mark>/ious</mark>	<mark>js (as in pre</mark> v	their meaning	ive and th	ode and fr_act	<mark>cs_data_m</mark>	values of pc	Add the				,		medy	SuggestedR
Hajduczenia, Marek Bright House Network Comment Type E Comment Status A Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>, "between "," and "and". Also, sentence finishes with "," and should with "." SuggestedRemedy Per comment Also, sentence finishes with "," and should with "." SuggestedRemedy Per comment Comment Type E Comment Status A Response Response Status C C ACCEPT. Comment Type E Comment Status A Hajduczenia, Marek Bright House Network Editorial "a 4 bit control word and 32 bit data word" - adjectives made from multiple compound words should be hyphenated. Editorial "a 4 bit control word and 32 bit data word" Editorial "a 4 bit control word and 32 bit data word"		he form:	<u>30)</u>	one of two re 113-30	113.2.2.11.1) er can take on Data (see Figu	DIPLE. le values to e paramete state PCS_	_data_mode e 9) _data_mode PHY is in st	ACCEP Add pcs (after lin The pcs TRUE =	s box			atus C Ind the use of	Response E. relate to EEE	IN PRINCIPL needed, these note - after con	Response ACCEP No note (Editor's
Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>, " between "," and Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>, " between "," and Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>, " between "," and Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>, " between "," and Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>," between "," and Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>," between "," and Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>," between "," and SuggestedRemedy Per comment Response Response Status Cl C ACCEPT. Cl Cl 113 SC 113.3.2.2 P 118 L 11 # [-58] Hajduczenia, Marek Bright House Network Text only mentions 25GMII signals "after 25GBASE-T, so it reads: "rx_coded<66 is then decoded to form the 25GMII signals RXD<31:0> and RXC<3:0> for 25GBA Comment Type E Comment Status A Words should be hyphenated. SuggestedRemedy Change insert "the XLGMII signals RXD<63:0> and RXC<7:0> for 40GBASE-T," SuggestedRemedy Change in "a 4-bit control word and 32-bit data word" Editorial "a 4-bit control word and 32-bit data word" A <td></td> <td></td> <td>in)</td> <td>etrain</td> <td>orming a fast re</td> <td>rently perfo</td> <td>PHY is curre</td> <td>TRUE =</td> <td></td> <td># i-56</td> <td></td> <td>Bright House</td> <td>0</td> <td>Marek</td> <td>Hajduczenia</td>			in)	etrain	orming a fast re	rently perfo	PHY is curre	TRUE =		# i-56		Bright House	0	Marek	Hajduczenia
SuggestedRemedy Per comment Response Response Status ACCEPT. CI 113 SC 113.2.2 P 90 L 42 # ji-58 Hajduczenia, Marek Bright House Network Comment Type E Comment Type E Comment Type E Comment Type E Comment Status A Text only mentions 25GMII, although it also speaks to XLGMII. "rx_coded<64:0: then decoded to form the 25GMII signals RXD<31:0> and RXC<3:0> for 25GBA RXD<63:0> and RXC<7:0> for 40GBASE-T, " SuggestedRemedy Change insert "the XLGMII signals" after 25GBASE-T, so it reads: "rx_coded<66 is then decoded to form the 25GMII signals RXD<31:0> and RXC<3:0> for 25GBA "a 4 bit control word and 32 bit data word" - adjectives made from multiple compound words should be hyphenated. Editorial SuggestedRemedy Change to "a 4-bit control word and 32-bit data word" A	-99	# [i		-		.2.2		-		∙," between "," a	and TXD<31:	:0>, TXC<3:0	<3:0>, RXD<	pace in "RXC	Missing "and".
CI 113 SC 113.2.2 P 90 L 42 # i-58 Hajduczenia, Marek Bright House Network Comment Type E Comment Status A Editorial "a 4 bit control word and 32 bit data word" - adjectives made from multiple compound words should be hyphenated. Editorial Response Response Status C SuggestedRemedy Change to "a 4-bit control word and 32-bit data word" Editorial ACCEPT. ACCEPT.				speaks to D<31:0> a	though it also s MII signals RX	25GMII, alt m the 25G	, y mentions 2 coded to form	Text only then dec					-	medy	SuggestedR Per com
Comment Type E Comment Status A Editorial Response Response Status C "a 4 bit control word and 32 bit data word" - adjectives made from multiple compound words should be hyphenated. SuggestedRemedy Change to "a 4-bit control word and 32-bit data word"			0> and RXC.	RXD<31:0	GMII signals F	form the 25	insert "the X lecoded to fo	Change is then c		# <u>i-58</u>				SC 113.2.2	C/ 113
Change to "a 4-bit control word and 32-bit data word"				С	oonse Status	Resp	Г.	•				tatus A	d 32 bit data	be E	Comment Ty "a 4 bit c
											are multiple)			o "a 4-bit cont	Change
Response Response Status C ACCEPT IN PRINCIPLE. Change to "a four-bit control word and 32-bit data word".											. ,	atus C	Response E.	IN PRINCIPL	Response ACCEP ⁻

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

C/ 113 SC 113.3.2.2 Page 12 of 48 2/7/2016 5:08:27 PM

C/ 113 SC 113.3.2.2	P 98	L 21	# : 405	C/ 113 SC 113.3	0.0.40	P 108	L 19	#
Donahue, Curtis	F 96	L Z I	# i-125	RAN, ADEE	.2.2.10	Intel Corporat		# i-70
Comment Type E Change " 40GBASE_T'	Comment Status A " to " 40GBASE-T".		EZ	Comment Type GR Multiple issues with		t Status A		Editorial
SuggestedRemedy See comment.					ne same subclau	use require sepai	rate numbering.	The second list should
Response ACCEPT.	Response Status C			be changed to a1, t 3. In the "b" item of "C={1,4)" should ha	the second list, we a right curly	"8-k" should use brace.	a minus sign in	stead of a hypen,
C/ 113 SC 113.3.2.2 RAN, ADEE	P 98 Intel Corporati	<mark>L 50 on</mark>	<mark>#</mark> <mark>i-66</mark>	the rightmost colum 5. In the paragraph	nn of Table 113- that starts with	4? Please rephra "Given this," the	ase to clarify. words "can be c	s referred. Should it be onstructed" refer to "a
Comment Type E 6x513B and 2x65B bits	Comment Status A		Editorial	513-bit block". It se ordered. 6. Missing periods a	-			
SuggestedRemedy Delete either the B's or Response	<mark>"bits".</mark> Response Status C			which follows ("The	resulting transla the examples sh better to move used as an inde	ation"). hould have disting the examples to x, as in tx_coded	ct labels, and pro a separate sub _j, the index var	eferably without sub-list clause. iable should be
ACCEPT IN PRINCIPL Change "the 6x513B ar two blocks of 65B enco	nd 2x65B bits" to "the six bloc	ks of 513B trans	scoded bits and the	SuggestedRemedy Address all issues a figures within it.	as listed in the c	comment body, ir	this subclause	and the tables and
C/ 113 SC 113.3.2.2. RAN, ADEE	10 P 107 Intel Corporati	<mark>L 6</mark> on	<mark>#</mark> <mark>i-69</mark>	Response ACCEPT IN PRINC	,	Status C		
Comment Type (ER) (EEE is an optional capa standard.	Comment Status A ability. PHYs may support EE	E or not, but it i	<i>Editorial</i> s not a separate	Address all issues a commenter says a (Clause 85 doesn't	as commenter s	ould be a2, b2, c2		em 2:
	e usual term is "support". "Ph n) is very common in 802.3. "							
SuggestedRemedy								
Change "EEE complian	t PHYs" to "PHYs that suppo	ort EEE" through	out clause 113.					
Response	Response Status C							
ACCEPT.								

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

C/ 113 SC 113.3.2.2.16 Page 13 of 48 2/7/2016 5:08:27 PM

	_							
C/ 113 S RAN, ADEE	C 113.3.2.2.19	P 113 Intel Corporatio	on	(# <u>i-7</u>		C/ 113 RAN, ADEI	SC 113.: E	3.2.2.20
document. of this star It is not cle seem to be left to impli	T Common f the auxiliary bit for ver- It is highly recommen- idard it is ignored by the ar what these sentence encoded. Is the enco ementation choice? The not the encoder subcl	ded that the auxiliar the link partner, as ar the mean in the conte der required or expe the decoder behavior	y bit be random re the random fi ext of the LDPC ected to use spe	ized. For the Il bits". encoder. The ecific values c	purposes ey do not or are they	informa "Must" normat If it is n	Type TR that two rar ation is disc here does r ive requirer normative, h n, and alterr	ndom fill b arded upo not seem nent, or a ow is this
SuggestedRen	nedy					Would	any damag	e occur if
Response ACCEPT I These bits	se sentences. Respon N PRINCIPLE. are not encoded by th vers more than just the				nis)	other b	RS-FEC par its? This wo nenters. <i>Remedy</i>	
	e of 113.3.2.2.19 to LI						the quoted C encoder.	note from
RAN, ADEE	C 113.3.2.2.19	P 113 Intel Corporatio	L 8 on	# [i-72		what th	cing the zer nese bits sh of previous	ould conta
the final 17 subclause 113.3.2.2.2	T Commu- an be interpreted as if t '32 are LDPC encoded 113.3.2.2.20 (also not 20 does define how the struction is difficult, and	d. But Figure 113-8 (referenced here) su RS-FEC codeword	(which is not ref uggest a differer d is constructed,	erenced here nt division sch but figuring d) and neme.	depend <i>Response</i> ACCEF	tively, make dent arbitrar	y bits, and <i>Re</i> CIPLE.
	nedy ly in the text how the L s, similar to the RS-FE				13B and	Chango instead	e to read "(I I…"	t is highly
Align the te	ext with Figure 113-8 if	necessary.						
	Respon	se Status C						
Response								
ACCEPT I Existing te	N PRINCIPLE. xt is similar in construc been clearly understoo		d LDPC encode	d bits in claus	se 55			

S				A smitted instead of ze	ros, and then this	PCS
			m to describe an u r a recommendatio	navoidable situation	. Does it stand for a	
				ecified? would a cor utput sufficiently rand	stant value chosen at dom?	
	Would any	damage occu	r if these bits just c	ontain zeros?		
		This would ma			then they are replaced and may not be usefu	
	SuggestedRem	edv				
		quoted note fr	om this location. It	only creates confusi	on in understanding th	е
al	what these	bits should co		ros. For example, th	ement, and state clear e output of some LFSI	
				replace these bits by t the arbitrary bits ar	implementation- e not protected by RS-	-FEC.
	Response		Response Status	С		
				that two random fill b	its be transmitted	

P 114

Intel Corporation

L 8

i-73

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C/ 113 RAN, ADE	<mark>SC 113.3.2.2.</mark> E		<mark>D6</mark> Corporation	<mark>L 43</mark>	<mark>#</mark> <mark>i-67</mark>	C/ 113 RAN, ADE		<mark>113.3.2.3</mark>	P 118 Intel Corpora	L 16 tion	<mark>#</mark> i-75	
Comment		Comment Status	Δ		Edito	orial Comment	Type	E	Comment Status A			ΕZ
				agation" - this	may be the motivati			-	erts idles, delete idles, or d	elete sequence	ordered sets"	
		rule), but should not mbler error propaga				Incong	victority	/erb form.				
Suggested		inder endi propaga			essary confusion.	Suggester						
00		elf-synchronizing scr	ambler err	or propagation	n" or move it to a			<i>ly</i>				
NOTE				or propagator				process inse	erts idles, deletes idles, or o	deletes sequen	ce ordered sets".	
Response		Response Status	С			Response			Response Status C			
	PT IN PRINCIPLI					ACCE	PT.					
	e "to account for s	elf-synchronizing scr	ambler err	or propagation	<mark>1"</mark>	<u> </u>	SC	113.3.3	P120	L 4	# i-76	
C/ 113	SC 113.3.2.2.			L 52	# i-68	RAN, ADE			Intel Corpora		" " <mark>170</mark>	
RAN, ADE	E	Intel C	Corporation			Comment	Type	E	Comment Status A			ΕZ
Comment		Comment Status	Α			FZ		nating perio				
two pe	eriods					Suggested	-					
Suggested								after "113.5	5.2".			
	e one period.					Response			Response Status C			
Response		Response Status	С			ACCE	PT.		, -			
ACCE	PT.											
C/ 113	SC 113.3.2.2.	9 P 10	06	L 53	# i-112							
Donahue,	Curtis											
Comment Extra	<i>Type</i> E "." at end of sente	Comment Status	Α			EZ						
Suggested	dRemedv											
delete												
Response		Response Status	С									
ACCE	PT. Implemented	by comment i-68										
the res	r's note added afte solution to comme one period.	er comment resolutio ent i-68 was:	on was con	nplete:								

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

C/ 113 SC 113.3.3

C/ 113 SC 113.3.4 P 120 L 18 # i-77 RAN, ADEE Intel Corporation	C/ 113 SC 113.3.4.2 P 121 L 24 # [i-87] RAN, ADEE Intel Corporation Intel Corporation <td< th=""></td<>
Comment Type E Comment Status A EZ The italics vs. Moman font type in Figure 113-15 is inconsistent both internally and with regards to the text preceding it. As a result the italics distract rather than help. EZ	Comment Type E Comment Status A PCS InfoField is mentioned here but it is defined only much later, in 113.4.2.5. SuggestedRemedy PCS
In the text, n is a variable that appears in italics, but in the figure it sometime is and sometimes isn't. Likewise, Scr is not italicized (not a variable) in the text, but in the figure it sometimes is and sometimes isn't. The number "1" appears italicized in the figure within "n-1", it looks like the letter I. Numbers should never be italicized.	Add a cross-reference to 113.4.2.5. Response Response Status C ACCEPT IN PRINCIPLE. Definition added to 1.4 by comment i-51
(The word "otherwise" is in italics although it is not a variable. (<i>SuggestedRemedy</i>) (Make the variable "n" always italicized in Figure 113-15.)	[Editor's note added after comment resolution was complete: the resolution to comment i-51 was: Insert definition of Infofield to 1.4 (alphabetically) "Infofield - A sixteen octet frame transmitted at regular intervals containing messages for startup operation by certain PHYs (see IEEE Std 802.3 Clause 55 and Clause 113)"
(If "Scr" is a variable then make it consistently italicized (and likewise for Sa, Sb, Sc, Sd) in the figure and in the clause text; otherwise make it consistently Roman.	Change all "InfoField" to "Infofield"]
Make everything else Roman. Response Response Status C ACCEPT.	C/ 113 SC 113.3.5 P 122 L 4 # i-79 RAN, ADEE Intel Corporation Intel Corporation Editorial
C/ 113SC 113.3.4.2P 121L 18# i-78RAN, ADEEIntel CorporationComment TypeTComment StatusAPCS	 "R" label in the box seems to refer to the refresh cycle, but it is not readily apparent. The detailed description of "Pair A" does not include "R". SuggestedRemedy Add "R" under the "refresh" label for pair A.
"If requested by the link partner, the PCS shall reset the training mode scrambler every 16384 periods"	Consider adding, either in a note in the figure or in the text, an indication that R denotes to the refresh period.
This functionality is deprecated for 10G. Should it exist here? SuggestedRemedy Delete the second sentence. Response Response Status C ACCEPT. (this was supposed to have been removed)	Response Response Status C ACCEPT IN PRINCIPLE. Change "refresh" on pair A to "refresh (R)"

C/ 113 SC 113.3.5

C/ 113 SC 113.3.5.2 Donahue, Curtis	<mark>/P 123</mark>	<mark>L 44</mark>	# <mark>i-126</mark>		<mark>C/ 113</mark> Ran, adee	<mark>SC 113.3.6.2</mark> ≣		<mark>26</mark> Corporatior	<mark>L 13</mark>	(# <u>i-80</u>	
Comment Type E Change "-41dBm" to "-41	Comment Status A 1 dBm".			EZ		he lfer_cnt exce	Comment Status eeds 16" - but lfer_cn Figure 113-17 sets	t is defined		p to a maximum of 1	PCS 6"
SuggestedRemedy See comment (add spac					Suggested		Ŭ				
Response ACCEPT.	Response Status C				Response ACCEF		Response Status	с			
C/ 113 SC 113.3.6.2.2 RAN, ADEE	2 P 125 Intel Corporati	L 34 on	# [i-81				ed to put a maintena	nce reques	st on clause {	55, where the same to	<mark>ext</mark>
Comment Type TR It seems that both LDPC	Comment Status A and RS-FEC should be have	ve no errors to d	leclare a valid fram	PCS e.	<mark>C/ 113</mark> RAN, ADEE	<mark>SC 113.3.6.2</mark> ∃		27 Corporatior	<mark>25</mark>	# <u>i-82</u>	
the received codeword h non-expert reader. Also, corrected, and that unco might not check the sync	or" for the RS-FEC is not def ad no more than t=3 8-bit sy it is not clear that errors tha rrected errors must be ident drome after a correction atte definition, the RS-FEC defini ablity) of the codeword.	rmbol errors, bu t are not uncorre fied as such (so mpt).	t it is not obvious for ectable are actually ome implementation	or a / ns	only po In addit MDIO is Similar	ints to the varial ion, it would be s optional, other	ble list in clause 55. better to define the f r means to access th fr_enable (1.147.0) i	A reference unctionality is variable	e to clause 1 y here, not ju may be prov	the base document b 33 should be added. st in clause 45. Since ided. id in 45.2.1.79.6 and	e
SuggestedRemedy Change "valid if:" to "vali Change item b to read: b. The RS-FEC-coded bi	id if both:" its form a valid RS-FEC cod	eword.			Suggested Change "If fast receive	Remedy the first paragr retrain is suppor path during fas	raph of the definition rted, this variable cor st retrain. if MDIO is s	ntrols the b			
	Response Status C				Append			rted, an eq	juivalent metl	nod of controlling fast	t
Change item b to read: b. The RS-FEC-coded bi	its, after decoding, form a va	lid RS-FEC coo	leword.				d add a reference to o 45.2.1.79.6 and 113		<mark>2.</mark>		
					Response ACCEF	<u>чт.</u>	Response Status	C			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 113 SC 113.3.6.2.2 Page 17 of 48 2/7/2016 5:08:27 PM

C/ 113 SC 113.3.6.2.3 P127 L 17 # L83 C/ 113 SC 113.3.6.2.3 P127 L 17 # L83 RAN, ADEE Intel Corporation Intel Corporation Comment Type T Comment Status A PCS Ide: timer implies the triggering frames error ratio for 40G is equal to that of 10G (clause 55 Use timer implies the triggering frames error ratio for 40G is equal to that of 10G (clause 55 Sc 113.4.1 P137 L 31 # L105 Suggested/Remedy Comment Type T Esponse Response Status C ACCEPT Accounting to the definition of [pi_tx_mode, we get [pi_tx_mode=QUIET during SEND_WAKE. L 42 # L84 EEE Comment Type T Comment Ty												
Comment Type T Comment Status A PCS Comment Type T Comment Status A PCS Iter_timer implies the triggering frames error ratio for 40G is equal to that of 10G (clause 55 uses 125		3.6.2.3			# [i-83	-				-••	# i-105	
SuggestedRemedy Change 25/4 to 25/(45) (\$ italicized). Response Response Status C ACCEPT IN PRINCIPLE. Change '125/4 usec' to '125/(4xS)' usec (5 is italicized, x is multiplication symbol.) C/I 113 SC 113.3.7.2 P 136 L 42 # 184 Comment Type TR Comment Status R Comment Type TR Comment Status R Comment Type TR Comment Status R AccePT. Comment Status A According to Figure 113-22, during SEND_WAKE we have: EE According to Figure 113-22, during SEND_WAKE we have: EE Cy juict, active-false (deasserted in this state) EE KL, juict, active-false (deasserted in this state) EE So according to the definition of lpi_tx_mode, we get lpi_tx_mode=QUIET during SEND_WAKE. Plase scrub existing NOTEs and Footnotes, and make sure that full sentences are tolowed by ''' Suggested/Remedy Intel Corporation C Insume kL, lpi_qr_active should be asserted to true in SEND_WAKE, to enable REFRESH signaling. But perhaps something else should be done. Response Status C Response Response Status C C RESPECT. Comment Type T Comment Status A EZ The definition of tx_lpi_qr_active is A Boolean variable tha	Comment Type T		t Status A			Comment 7	ype E	Comment Statu	5 A		ure 113-23	ΕZ
Change "125/4 usec" to "125/(4xS)" usec (S is italicized, x is multiplication symbol.) C/ 113 SC 113.3.7.2 P 136 L 42 # [-84] RAN, ADEE Intel Corporation Comment Type TR Comment Status R Caccording to Figure 113-22, during SEND_WAKE we have: tr, [-alert_active=false (deasserted in this state) tx_[p]_qr_active=false (deasserted in SEND_ALERT) So according to the definition of [p]_tx_mode, we get [p]_tx_mode=QUIET during SEND_WAKE. That does not seem correct, although the corresponding diagram in Figure 55-20 is similar. SuggestedRemedy I assume tx_[p]_qr_active should be asserted to true in SEND_WAKE, to enable REFRESH signaling. But perhaps something else should be done. Response Response Status C REJECT. Refinition of tx_[p]_qr_active is A Boolean variable that is set true during the LPI transmitting quiet-refresh signaling. Set false otherwise. This statement is redundant in this clause, since loop timing is always performed on the SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence. The WAKE signal is not a quiet-refresh signal. It is composed of LDPC frames (512B/513B and 64/65B blocks) of Idle (/I) signals. Status C	SuggestedRemedy Change 25/4 to 25 Response	/(4S) (S italicized Response	/			add dot Response	per comment	Response Status	C	J		
RAN, ADEE Intel Corporation Comment Type TR Comment Status R EEE Comment Type TR Comment Status R EEE Comment Type TR Comment Status R EEE Comment Type Comment Status A EZ According to Figure 113-22, during SEND_WAKE we have: tx_lpi_qr_active=false (deasserted in this state) EEE SuggestedRemedy Please scrub existing NOTEs and Foontes, and make sure that full sentences are followed by "." Response Response Status C SuggestedRemedy I assume tx_lpi_qr_active should be asserted to true in SEND_WAKE, to enable REFRESH signaling. But perhaps something else should be done. Response Response Status A EZ REJECT. The definition of tx_lpi_qr_active is A Boolean variable that is set true during the LPI transmit mode, when the PHY is transmitting quiet-refresh signaling. Set false otherwise. This statement is redundant in this clause, since loop timing is always performed on the SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence. The WAKE signal is not a quiet-refresh signal. It is composed of LDPC frames (512B/513B and 64/65B blocks) of Idle (/l/) signals. SuggestedRemedy EXerce Response Status C SuggestedRemedy Delete this sentence. Response Response Status C<	Change "125/4 use	ec" to "125/(4xS)			. ,						(# <mark>i-59</mark>)	
Colument type TK Colument outsits K Current outsits K According to Figure 113-22, during SEND_WAKE we have: tx_lpi_alert_active=false (deasserted in this state) Please scrub existing NOTEs and Footnotes, and make sure that full sentences are followed by ** So according to the definition of lpi_tx_mode, we get lpi_tx_mode=QUIET during SEND_WAKE. Response Response Status C SuggestedRemedy I assume tx_lpi_qr_active should be asserted to true in SEND_WAKE, to enable REFRESH signaling. But perhaps something else should be done. C/ 113 SC 113.4.2.2 P 138 L 40 # [+85] RAN, ADEE Intel Corporation Response Response Status C REJECT. The definition of tx_lpi_qr_active is A Boolean variable that is set true during the LPI transmit mode, when the PHY is transmitting quiet-refresh signaling. Set false otherwise. This statement is redundant in this clause, since loop timing is always performed on the SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence seemed to be an exception. But it is not an exception here). SuggestedRemedy Delete this sentence. REJECT. The definition of tx_lpi_qr_active is A Boolean variable that is set true during the LPI transmit mode, when the PHY is transmitting quiet-refresh signaling. Set false otherwise. The WAKE signal is not a quiet-refresh signal. It is composed of LDPC frames (512B/513B and 64/65B						Comment 7	ype <mark>E</mark>	Comment Statu	6 A			ΕZ
According to Figure 113-22, during SEND_WAKE we have: tx_lpi_alert_active=false (deasserted in this state) tx_lpi_qr_active=false (deasserted in SEND_ALERT) So according to the definition of lpi_tx_mode, we get lpi_tx_mode=QUIET during SEND_WAKE. That does not seem correct, although the corresponding diagram in Figure 55-20 is similar. SuggestedRemedy lassume tx_lpi_qr_active should be asserted to true in SEND_WAKE, to enable REFRESH signaling. But perhaps something else should be done. Response Response Status C REJECT. The definition of tx_lpi_qr_active is A Boolean variable that is set true during the LPI transmit mode, when the PHY is transmitting quiet-refresh signaling. Set false otherwise. (512B/513B and 64/65B blocks) of Idle (/I/) signals. SuggestedRemedy Delete this sentence. Response Response Status C Response Response Status C The WAKE signal is not a quiet-refresh signal. It is composed of LDPC frames (512B/513B and 64/65B blocks) of Idle (/I/) signals.	Comment Type TR	Commen	t Status R		FFF	Test in	NOTE2 is a ful	lls sentence, but doe	s not have	e "." at the end.		
SuggestedRemedy I assume tx_lpi_qr_active should be asserted to true in SEND_WAKE, to enable REFRESH signaling. But perhaps something else should be done. RAN, ADEE Intel Corporation EZ Response Response Status C "An EEE-capable PHY shall operate with loop timing when configured as SLAVE" EZ REJECT. The definition of tx_lpi_qr_active is A Boolean variable that is set true during the LPI transmit mode, when the PHY is transmitting quiet-refresh signaling. Set false otherwise. This statement is redundant in this clause, since loop timing is always performed on the SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence seemed to be an exception. But it is not an exception here). SuggestedRemedy Delete this sentence. Response Response Status C	tx_lpi_qr_active=fa	Ilse (deasserted i	n SEND_ALERT)	pi_tx_mode=QU	IET during	followe Response	d by "."		-	ake sure that ful	Il sentences are	
I assume tx_lpi_qr_active should be asserted to true in SEND_WAKE, to enable REFRESH signaling. But perhaps something else should be done. EZ Response Response Status C REJECT. REJECT. This statement is redundant in this clause, since loop timing is always performed on the SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence seemed to be an exception. But it is not an exception here). Suggested/Remedy Delete this sentence. Response Response of Idle (/I/) signals.	That does not see	m correct, althou	gh the correspondi	ng diagram in F	igure 55-20 is similar.	C/ 113	SC 113.4.2.2	2 P	138	L 40	# <u>i-85</u>	
REFRESH signaling. But perhaps something else should be done. Image: Common output of the second output	SuggestedRemedy					RAN, ADEE		Intel	Corporati	ion		
Response Response Status C REJECT. REJECT. The definition of tx_lpi_qr_active is A Boolean variable that is set true during the LPI transmit mode, when the PHY is transmitting quiet-refresh signaling. Set false otherwise. This statement is redundant in this clause, since loop timing is always performed on the SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence seemed to be an exception. But it is not an exception here). SuggestedRemedy Delete this sentence. Delete this sentence. Response Status C					, to enable		51			a when configure	ed as SLAVE"	ΕZ
The definition of tx_lpi_qr_active is A Boolean variable that is set true during the LPI transmit mode, when the PHY is transmitting quiet-refresh signaling. Set false otherwise. SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence seemed to be an exception. But it is not an exception here). The WAKE signal is not a quiet-refresh signal. It is composed of LDPC frames (512B/513B and 64/65B blocks) of Idle (/I/) signals. SLAVE frames Response Response Status C	Response	Response	Status C				·					
The WAKE signal is not a quiet-refresh signal. It is composed of LDPC frames Delete this sentence. (512B/513B and 64/65B blocks) of Idle (/I/) signals. Delete this sentence. Response Response Status	The definition of tx					SLAVE	side, regardles	ss of EEE support. (n clause s	55, SLĂVE could	d work without loo	
						Delete	,					
						•	РТ.	Response Status	C			

C/ 113 SC 113.4.2.2 Page 18 of 48 2/7/2016 5:08:27 PM

CI 113 SC 113.4.2.2.1 P 139 L 3 # [i-86] RAN, ADEE Intel Corporation	C/ 113 SC 113.4.2.3.1 P140 L 26 # 1-113
Comment Type T Comment Status A EEE "will" seems to be a normative requirement here.	Comment Type E Comment Status A EZ
SuggestedRemedy Change "will" to "shall".	SuggestedRemedy See comment.
Response Response Status C ACCEPT. (implemented by i-89) [Editor's note added after comment resolution was complete:	Response Response Status C ACCEPT.
the resolution to comment i-89 was:	C/ 113 SC 113.4.2.4 P 141 L 39 # i-114 Donahue, Curtis
P114 L2 see comment i-73 to remove "must" P122 L24 describes a desired state, not a requirement, what follows states the requirements to achieve this. Delete "must" on P122 L24	Comment Type E Comment Status A EZ pairs BI_DA, BI_DB, BI_DC, and BI_DB. Second instance of "BI_DB" should be "BI_DD".
P148 L14 change "must set" to "sets"	SuggestedRemedy
P92 L24, P110 L1, L4, and L13, P124 L4 change "will be" to "is"	Change second "BI_DB" to "BI_DD". Response Response Status C
P127 L18 delete "will" to read "When the timer reaches its terminal count, lfer_timer_done = TRUE".	ACCEPT.
P139 L3 delete "will"	C/ 113 SC 113.4.2.5 P 142 L 32 # i-115 Donahue, Curtis
P150 L36 and L37 change "will" to "shall" to read: "If the link partner requested THP bypass for fast retrain the PHY shall bypass the THP (or set THP coefficients to zero). Otherwise the PHY shall keep its THP turned on with its previously exchanged coefficients, and send PAM2 signaling within a time period equivalent to 9 LDPC frame periods." and update PICS.	Comment Type E Comment Status A EZ The InfoField is also denoted IF. While there is nothing wrong with this statement, the only use of "IF" instead of "InfoField" is twice in the following sentence. Is it necessary? SuggestedRemedy
P178 L6 change "will be used to refer" to "used in this clause refers"	Remove the sentence "The InfoField is also denoted IF." and in the following sentence change "IF" and "IFs" to "InfoField" and "InfoFields" respectively.
P92 L18 replace "may take on" with "takes on" P92 L19 replace "may additionally take on" with "additionally takes on"	Response Response Status C ACCEPT.
P130 L8, L9 - change "may not" to "are not guaranteed to be" (L8) and "are not guaranteed to" (L9)	
P149 L35 change "may not be" to "are not" to read: "The THP coefficients and PBO setting are not changed during PMA_Fine_Adjust."	
P171 L17, P176 L14, P195 L27 change "may" to "can" P195 L19 and P197 L10 change "may be" to "are" P195 L26 delete "may" 1	

]

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

C/ 113 SC 113.4.2.5 Page 19 of 48 2/7/2016 5:08:27 PM

C/ 113 SC 113.4.2.5.11 P 146	L 46 # [i-88	C/ 113 SC 113.4.5.1 P155 L19 # -116
RAN, ADEE Intel Corporation Comment Type E Comment Status A Does tilde-equal means "not equal"?	PCS	Donahue, Curtis Comment Type E Comment Status A EZ The definition for THP_next starts with "THP is a variable that contains". Should it be "THP_next"?
SuggestedRemedy Change to a non-equal sign (or whatever it should be). Response Response Status C ACCEPT IN PRINCIPLE. Replace "~=" with "!=" (consistent with Section 5 of IEEE Std 802.3-2012)		SuggestedRemedy Change "THP" to "THP_next". Additionally, the same issue occurs in the THP_tx definition. Change "THP" to "THP_tx" there too. Response Response Status C ACCEPT.
Cl 113 SC 113.4.2.5.6 P 144 Rolfe, Benjamin Blind Creek Asso	L 47 #	C/ 113 SC 113.4.5.1 P 155 L 6 # i-106 Zimmerman, George Aquantia, and CommS
Comment Type T Comment Status A (LATE) The phrasing "Any other value shall not be tran receiver" is imprecise. A device that ignores only 1 valu comply. I suspect "all" is what is really intended. SuggestedRemedy		Comment Type E Comment Status A EZ Typo and incorrect reference in pcs_status request primitive - "PMA_SCRSTATUS.request primitive (see 113.2.2.5)" obviously means to refer to PCSSTATUS, not SCRSTATUS, and the cross reference needs to match too. SuggestedRemedy
Change "any" to "all" Response Response Status C ACCEPT IN PRINCIPLE. Change "Any other value shall not be transmitted and s read	hall be ignored at the receiver" to	Replace SCRSTATUS with PCSTATUS and 113.2.2.5 cross reference with 113.2.2.6 cross reference (to match PCSSTATUS). Response Response Status C ACCEPT.
"No other value shall be transmitted, and all other value	L 39 # i-90	C/ 113 SC 113.4.6.2 P 160 L 1 # i-60 Hajduczenia, Marek Bright House Network
Cl 113 SC 113.4.5.1 P 153 RAN, ADEE Intel Corporation Comment Type E Comment Status A Inconsistent right margin and justification for the variabilities be present where they should not. A	Editorial	Comment Type E Comment Status A EZ Inconsistencies in font size and text box styles in individual state diagrams, e.g., when comparing Figure 113-31 and Fig re 113-32 SuggestedRemedy
SuggestedRemedy Apply paragraph formatting suitable for list of variables	as in other lists in this draft.	Please align font sizes and text box styles at least within this amendment. <i>Response</i> <i>Response</i> <i>Response</i> <i>C</i>
Response Response Status C ACCEPT.		ACCEPT.

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

C/ 113 SC 113.4.6.2 Page 20 of 48 2/7/2016 5:08:27 PM

C/ 113 SC 113.5.2		L 20	#	C/ 113	SC 113.5.2.1	P 168	L 21	# <u>i-117</u>			
Rolfe, Benjamin	Blind Creek Asso	ciate		Donahue, C	Jurtis						
	Comment Status A 8 I suspect "(need to update)" is ol blete and not ready to ballot.	bsolete. Otherw	LATE - Editorial vise this draft would	Comment Type E Comment Status A The title for Figure 113-38 is "Transmitter test fixture 3 for transmitter jitter measure (need to update)". I'm assuming "(need to update)" was some kind of note for the er and shouldn't be in the figure title.							
SuggestedRemedy						figure title.					
Delete "(need to upda	ate)"			Suggested	-						
Response	Response Status C			Remov necess	•	update)". And additionally u	odate the figure a	ppropriately if			
ACCEPT. Implemented by com	ment i-91			Response ACCEF	_	Response Status C					
the resolution to com	ate)" update was completed long a		# [<mark>i-91</mark>]	[Editor's the reso Delete]	olution to comm "(need to update	er comment resolution was ent i-91 was: e)" update was completed lo	ong ago.				
Comment Type GR	Comment Status A		EZ	C/ 113 Rolfe, Benja	SC 113.5.3.3	Blind Creek	L 12 Associato	<mark>#</mark>			
	need to update". What does it mea	an?		Comment 7		Comment Status A	ASSOCIALE	LATE - PMA			
SuggestedRemedy Update what's neede	d, and delete this part of the title.			(LATE) shown	"The SLAVE m in Figure 113–3"	ode RMS period jitter test s sounds a lot like a required ople is outside the scope of	ment on a pesron				
Response	Response Status C										
ACCEPT.	ate)" update was completed long a	00		Suggestedl Change		o "is measured" (consistent	with elsewhere i	n this standard)			
	ato, update was completed long a	90.		Response		Response Status C					
						der meintenense en some s	totoment in alour				

Commenter may consider maintenance on same statement in clause 55.

C/ 113 SC 113.5.3.3

<i>Cl</i> 113 <i>SC</i> 113.5.3.4 Hajduczenia, Marek	<i>P</i> 170 Bright House N	L 16 etwork	# [i-61	C/ 113 SC 113.5 RAN, ADEE		70 L 45 Corporation	# <u>i-93</u>			
Comment Type E 0	Comment Status A		EZ	Comment Type TR	Comment Status	R	EEE			
Is there any reason for the	Y axis title be displayed in	this form?		Does the frequency	variation requirement al	so apply to SLAVE PH	Ys?			
SuggestedRemedy Typically, Y axis title is disp insertion loss TP0 to TP2 c	or TP3 to TP5 in IEEE Std			Specifically, since asymmetric LPI operation is possible, the SLAVE clock recovery function has no clock to track for extended periods when the MASTER is in LPI. The SLAVE TX has to use loop-timing clock during that time. What are the frequency/phase requirements when the MASTER is in LPI? Holding the open-loop frequency within 0.1 ppm/second of the closed-loop frequency seems challenging. I don't see another value specified for the slave.						
ACCEPT. Implemented as [Editor's note added after c	comment resolution was co	mplete:								
the resolution to comment Change vertical axis label t				Also, there is no te MASTER is going i	st mode that enables mean and out of LPI.	asurement of the SLAV	E frequency when			
<i>Cl</i> 113 <i>SC</i> 113.5.3.4 Zimmerman, George	P 170 Aquantia, and 0	L 16 CommS	# [i-107	SuggestedRemedy If SLAVE is subject	t to the specifications in th	ne second paragraph, s	state it explicitly.			
Comment Type E (Figure 113-39 vertical axis	Comment Status A		<i>EZ</i> er similar 802.3 plots	SLAVE, especially	with MASTER in LPI.		·			
are.				, , ,	ed from SLAVE, please a		alldated.			
SuggestedRemedy Change vertical axis label t Response R	o rotated text esponse Status C			<i>Response</i> REJECT. Commenter does n	Response Status					
ACCEPT.					xt in clause 55 and was n fail BER and other require					
C/ 113 SC 113.5.3.4 RAN, ADEE	P 170 Intel Corporatio	<i>L</i> 18 n	# <mark>i-92</mark>	understood the req	uirement to apply to both	master and slave and	was correct as written.			
Comment Type E (The y axis label is written v drawn. Compare to figure 5		ers, and the p	<i>EZ</i> lot seems to be hand-							
SuggestedRemedy Redraw figure as vector plo	ot with thinner lines, set y-a	xis title correc	tly.							
Response R ACCEPT IN PRINCIPLE.	esponse Status C									

ACCEPT IN PRINCIPLE. Plot is embedded Excel. Y axis fixed by comment i-107

C/ 113 SC 113.5.3.5

C/ 113 SC 113.5.4.1 Rolfe, Benjamin	P 171 Blind Creek As	L 6 ssociate	<mark>#</mark>	C/ 113 SC 113.5.4 RAN, ADEE	-	P 171 el Corporation	L 22	# <u>i-94</u>
the requirement "shall be sati for "satisfaction" are given in sentence, and here we mean ration given. SuggestedRemedy Correctly state the required p	this standard. I think th that the requirement is	e "shall" belongs i	n the previous	Comment Type TR What does "remain o enclosures are groun from ground connecti SuggestedRemedy Please reword to clar Response ACCEPT IN PRINCIF Implemented in comr	ded to the same cor on? ify. <i>Response Statu</i> PLE.	ence plane" m nnection? or sh		
Change "This specification sh Commenter to consider subm same language exists Cl 113 SC 113.5.4.3 Moffitt, Bryan	nitting maintenance on C P 171 CommScope, I	L 21		the resolution to com Change to "All compo ground reference plat] C/ 113 SC 113.5.4	onents that are expo ne."	sed to the indu	uced fields sho	ould remain over the # i-139
Comment Type E Col	Moffitt, Bryan	Cor	mmScope, Inc	с.				
"a 30 meter plug-terminated of SuggestedRemedy Change to: "a 30 meter plug-t 113.7,"	-			Comment Type T The sentence "All con true and should be de SuggestedRemedy		remain over t		

C/ 113 SC 113.5.4.3 Page 23 of 48 2/7/2016 5:08:27 PM

Cl 113 SC 113.5.4.3 Moffitt, Bryan	P 171 CommScope,	L 25 Inc.	# i-140	<mark>C/ 113</mark> SC ′ Moffitt, Bryan	113.5.4.4	P 171 CommScope	<mark>/_ 40</mark> e, Inc.	(# <mark>i-143</mark>)
Comment Type T 6dBm should be verifie	Comment Status D d against more recent ad-hoo	test data	EMI test	Comment Type injected into e	E ach MDI in	Comment Status A puts (Should be a singular	sense?)	EMI test
SuggestedRemedy review test results and	change if necessary			SuggestedRemed		each MDI input		
Proposed Response REJECT.	Response Status Z			Response ACCEPT.		Response Status C		
This comment was WI	HDRAWN by the commente	r.		C/ 113 SC 1 RAN, ADEE	113.5.4.5	P 172 Intel Corpora	L 38 tion	# i-95
Additional test data will	be reviewed if provided.			Comment Type	т	Comment Status A		Short reach mode
C/ 113 SC 113.5.4.3 Donahue, Curtis	<mark>(P 171</mark>)	<mark>L 32</mark>	# <mark>i-118</mark>		3.5.4.1). It	ach mode do not exclude can be interpreted as if sh		
Comment Type E Change "6dBm" to "6 d	Comment Status A Bm".		EZ	I assume the i requirements		at in short reach mode only ct.	the shorter rea	ch link segment
SuggestedRemedy				SuggestedRemed	У			
See comment (add spa	ice).				.4.1 that th	e requirements in that sub	clause hold only	when not in short reach
Response	Response Status C			mode.				
ACCEPT.				Alternatively, s	state in 113	3.5.4.5 that in short reach r	node the require	ements of 113.5.4.1 do
C/ 113 SC 113.5.4.3	P 171	L 32	# i-141	not noia.				
Moffitt, Bryan	CommScope,	Inc.		Consider mer	ging these	two subclauses.		
Comment Type E	Comment Status D		EMI test	Response		Response Status C		
procedure of the Annex (113A.4) where it only s	everal ambiguous issues: Th (113A.3) that is not necesar cays "impairment as specified od reason to drag the 10% s	ily carried into I". It is clearly i	the actual Annex test dentified in the annex as	ACCEPT IN P Add to 113.5.4 When operatir specified in 11	4.5, (at end ng in short	l). reach mode, only operatio	n over the direc	t attach link segment
SuggestedRemedy								
5	that 10% in any interpretation the it was not clearly defined, of		5					
Proposed Response	Response Status Z							
REJECT.								
This comment was WIT	HDRAWN by the commente	r.						
Text was added to clea	r up a previous ambiguity flag	ged in comme	ents.					

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

C/ 113 SC 113.5.4.5 Page 24 of 48 2/7/2016 5:08:27 PM

C/ 113 SC 113.7.1	P 178	L 23	# i-10	C/ 113	SC 113.7.1		L 25	# i-109
Maguire, Valerie	The Siemon C	Company		Rossbach	Martin	Nexans C	anada Inc.	
Recognize that up to 30m, specifications described in				Add C Suggested	lass FA for 250	Comment Status R GBASE-T Cabling Types		Cablin
SuggestedRemedy Refer to page 3 of http://w to see proposed changes	ww.ieee802.org/3/bq/publi with revision marks. Response Status U he draft. proposed resolution (inclu al license to align with mo age). hment there were any additional or then asked whether the	ic/nov15/maguire uding both pages ore recent paralle proposals to res	e_3bq_01a_1115.pdf s 3 & 4 of the el changes to the draft olve the comment -	use th requir 21. Tr a nom cablin Additia a) 40 conne b) 40 additia c) 250 additia <i>Response</i> REJE No co [Editoo the rea No co Straw I supp refere	e following text es 4-pair balan e cabling syste inal impedance g may be supp onally: GBASE-T uses ct PHY entities GBASE-T uses onal transmissi BBASE-T uses ontities. GBASE-T uses ont	application of the balanced on requirements specified in balanced cabling listed in T application of the balanced on requirements specified in <i>Response Status</i> U ke this change to the draft. after comment resolution w ment i-10 was: unge the draft.	mpedance of 100 C BE-T requires 4-pail a 113-22. Operation tests the requirement Table 113-21 in a I cabling listed in Ta a this subclause. able 113-22 in a s cabling listed in Ta this subclause. " (see comments i-10 as complete:	Ohm listed in Table 113- r balanced cabling with o on other classes of its of 113.7. star topology to able 113-21 with the star topology to connect able 113-21 with the 0 and i-11)
				I supp Y: 14 N: 9 A: 3 The enthere	ort rejecting the ditor asked who were none. Th	s comment ether there were any additio e editor then asked whethe e lunch break or at this mee	there were any wh	no believed there would
				the re-	solution to com	ment i-11 was:		
TYPE: TR/technical required E COMMENT STATUS: D/dispat	tched A/accepted R/reject				U/unsatisfied		113 113.7.1	Page 25 of 48 2/7/2016 5:08:2

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 113.7.1 2/7/2016 SORT ORDER: Clause, Subclause, page, line

	-							
No consensus to make this change to the draft	C/ 113 SC 113.7.1	P 178	L 25	# <u>i-108</u>				
Straw Poll:	Rossbach, Martin	Nexans Cana	da Inc.					
I support the commenter's proposed resolution (including both pages 3 & 4 of the	Comment Type TR	Comment Status R		Cabling				
referenced file) with editorial license to align with more recent parallel changes to the draft (e.g., 'star topology' language).		oduces Scaling factor for PCS,	PMA and MDI to	0				
Y:7	3200MBaud. For Cal	bling we need the Scaling facto	or to be 0.5 as we					
N:8	upper frequency. Re	define Scaling factor for 25GBA	ASE-T = S = 0.5					
A:9	SuggestedRemedy							
Straw Poll:	Add text to 113.7.1 "For Cabling system characteristics for 25GBASE-T des							
I support rejecting this comment	Clause 113, the Scal	ling parameter S =0.5 is used."						
Y: 10	Response	Response Status C						
N: 7 A: 7	REJECT.							
	No consensus to cha	ange.						
	Straw Poll:							
		nter's suggested remedy with e	ditorial license:					
	Y: 6							
	N: 16							
	A: 8							
	Straw Poll:							
		nter's suggested remedy with e	ditorial license a	nd the scaling factor of				
	0.6: Y: 7							
	N: 15							
	A: 6							
	Motion #6	mmont boouse 25% bondwis	th above Niverviet	in required for PASE				
	T, except 2.5GBASE	omment because 25% bandwic		Is required for DASE-				
	M: Valerie Maguire							
	S: Martin Rossbach							
	Y: 6							
	N: 13 A: 8							
	MOTION FAILS (Tec	chnical >= 75%)						
	Motion 7: Reject the comment	as there is no consensus to ch	ande the current	draft based on this				
	comment.		ange me current	uran based off [1]15				
	M: Chris Diminico							
	S: Peter Jones							
	Y: 18							
	N: 6 A: 2							
	MOTION PASSES (1	Technical >= 75%)						
	- (,						

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/113COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC113.7.1SORT ORDER: Clause, Subclause, page, lineSORT ORDER: Clause, Subclause, page, lineSC113.7.1

Page 26 of 48 2/7/2016 5:08:27 PM

Comment Type TR Comment Status A Cabling Comment Type The phrase "in a star topology" refers to equipment which is out of scope for 802.3 networks using link segments. It would require the involvement of 802.1 bridges or routers. There is no star topology involving purely 802.3 equipment. SuggestedRemedy SuggestedRemedy Remove the phrase "in a star topology" from the sentence. It is not necessary and is technically incorrect. SuggestedRemedy Response Response Status C ACCEPT. Cl 113 SC 113.7.2 P 178 L 38 # [i+137] Schicketanz, Dieter Reutlingen Universty Comment Type TR Comment Status D Cabling Sreens are mentioned everywere, but the main qualifiere is missing in the link specification. It would add the possibility to match the link specifications to the local envinronment. SuggestedRemedy Add coupling attenuation depending on local envinronment after suubclause 113.7.3.2.1. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. If the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance. If the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance.	sbach, Martin Nexans Canada Inc. nment Type TR Comment Status R Ca Add Table 113-22 for 25GBASE-T Cabling Types including Class FA gestedRemedy Ink segment transmission parameters A link segment consisting of up to 30 m of cabling that meets the transmission parameters of the link segment include insertion loss, delay parameters, nominal impedance, NEXT loss, ACI and return loss. In addition, the requirements for the alien crosstalk coupled "between" segments is specified. Table 113-21 lists the supported cabling types and distances for 40GBASE-T and Table 113-22 lists the supported cabling types and distances for 25GBASE-T. Table 113-21 lists the supported cabling types and distances for 25GBASE-T. Table 113-21 lists the supported cabling types and distances for 25GBASE-T. Table 113-21 lists the supported cabling types and distances for 25GBASE-T. Table 113-21 losts II 30 m ISO/IEC 11801-1 Edition 3 Category 8 30 m ANSI/TIA-568-C.2-1 Table 113-22 z5GBASE-T Cabling types and distances Cabling Supported link segment distances Cabling references ISO/IEC Class I / Class II 30 m ISO/IEC 11801-1 Edition 3 Category 8 30 m ANSI/TIA-568-C.2-1 Table 113-22 z5GBASE-T Cabling types and distances Cabling Supported link segment distances Cabling references ISO/IEC Class I / Class II 30 m ISO/IEC 11801-1 Edition 3 Category 8 30 m ANSI/TIA-568-
The phrase "in a star topology" refers to equipment which is out of scope for 802.3 networks using link segments. It would require the involvement of 802.1 bridges or routers. There is no star topology involving purely 802.3 equipment. Suggester Remedy Remove the phrase "in a star topology" from the sentence. It is not necessary and is technically incorrect. Response C ACCEPT. C C/ 113 SC 113.7.2 P 178 L 38 # 1:137 Schicketanz, Dieter Reutlingen Universty Cabling Screens are mentioned everywere, but the main qualifiere is missing in the link specification. It would add the possibility to match the link specifications to the local envinronment. Cabling SuggestedRemedy Add coupling attenuation depending on local envinronment after suubclause 113.7.3.2.1. Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. If the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance.	Add Table 113-22 for 25GBASE-T Cabling Types including Class FA gestedRemedy Link segment transmission parameters A link segment consisting of up to 30 m of cabling that meets the transmission parameter of this subclause provides a reliable medium. The transmission parameters of the link segment include insertion loss, delay parameters, nominal impedance, NEXT loss, ACI and return loss. In addition, the requirements for the alien crosstalk coupled "between" segments is specified. Table 113-21 lists the supported cabling types and distances for 40GBASE-T and Table 113-22 lists the supported cabling types and distances for 25GBASE-T. Table 113-21 40GBASE-T Cabling types and distances Cabling Supported link segment distances Cabling references ISO/IEC Class I / Class II 30 m ISO/IEC 11801-1 Edition 3 Category 8 30 m ANSI/TIA-568-C.2-1 Table 113-22 25GBASE-T Cabling types and distances ISO/IEC Class I / Class II 30 m ISO/IEC 11801-1 Edition 3 Category 8 30 m ANSI/TIA-568-C.2-1 Table 113-22 5GBASE-T Cabling types and distances ISO/IEC Class I / Class II 30 m ISO/IEC 11801-1 Edition 3 Category 8 30 m ANSI/TIA-568-C.2-1 Table 113-22 5GBASE-T Cabling types and distances ISO/IEC Class I / Class II 30 m ISO/IEC 11801-1 Edition 3 Category 8 30 m ANSI/TIA-568-C.2-1 CLASS FA 30 m ISO/IEC 11801-1 Edition 3 up to 30m / ISO/IEC TR 11801-9905
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SuggestedRemedy Add coupling attenuation depending on local envinronment after suubclause 113.7.3.2.1. Response 113.7.3.2.1. Proposal to be given in Atlanta it does not fit here. (from 11801) Response 113.7.3.2.1. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. It Coupling attenuation is specified in the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance. It	Category 8 30 m ANSI/TIA-568-C.2-1 CLASS FA 30 m ISO/IEC 11801-1 Edition 3 up to 30m / ISO/IEC TR 11801-9905
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Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Image: Status Statu	
REJECT. This comment was WITHDRAWN by the commenter. Coupling attenuation is specified in the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance.	REJECT.
This comment was WITHDRAWN by the commenter.	No consensus to make this change to the draft. See comment i-10 and i-11
Coupling attenuation is specified in the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance.	[Editor's note added after comment resolution was complete:
Coupling attenuation is specified in the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance.	the resolution to comment i-10 was: No consensus to change the draft.
Coupling attenuation is specified in the referenced cabling standards and is not necessary to include as a link segment parameter as not directly related to PHY performance.	
to include as a link segment parameter as not directly related to PHY performance.	Straw Poll: I support the commenter's proposed resolution (including both pages 3 & 4 of the
· · · · · · · · · · · · · · · · · · ·	referenced file) with editorial license to align with more recent parallel changes to the di
	(e.g., 'star topology' language). Y:8
ſ	N:10
	A: 9
	Straw Poll:
	I support rejecting this comment
	Y: 14 N: 9
- t	

the resolution to comment i-11 was:	Cl 113SC 113.7.2P 178L 42Schicketanz, DieterReutlingen University	# i-134					
No consensus to make this change to the draft	Comment Type TR Comment Status R	Cabling					
Straw Poll: I support the commenter's proposed resolution (including both pages 3 & 4 of the	In 802.3 bz the lower 2.5 G is specified to 100 MHz, 5G to 250 MHz. Scaling this frequencies up to 25 G and 40 G the frwuencies would be 1000 MHz and 2000 MHz						
referenced file) with editorial license to align with more recent parallel changes to the draft	SuggestedRemedy						
(e.g., 'star topology' language). Y:7 N:8	To be in line with 802.3bz change 0.625 to 0.5 in the link formulas , it shou to do it in 113.7.2 once	Id be sufficient					
A:9	Response Response Status C						
Straw Poll: I support rejecting this comment	REJECT. No consensus to change the draft. See comment i-108 [Editor's note added after comment resolution was complete: the resolution to comment i-108 was: No consensus to change. Straw Poll: I support the commenter's suggested remedy with editorial license: Y: 6 N: 16 A: 8 Straw Poll: I support the commenter's suggested remedy with editorial license Y: 7 N: 16 A: 8 Straw Poll: I support the commenter's suggested remedy with editorial license and the scaling factor of 0.6: Y: 7 N: 15 A: 6 Motion #6 Move to reject this comment because 25% bandwidth above Nyquist is required for BASE-T, except 2.5GBASE-T. M: Valerie Maguire S: Martin Rossbach Y: 6 N: 13 A: 8 MOTION FAILS (Technical >= 75%)						
Y: 10 N: 7 A: 7							
	Motion 7: Reject the comment as there is no consensus to change the current draft comment. M: Chris Diminico S: Peter Jones Y: 18 N: 6	based on this					

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

C/ 113 SC 113.7.2 Page 28 of 48 2/7/2016 5:08:27 PM

A: 2 MOTION PASSES (Technical >= 75%)]	C/ 113 SC 113.7.2 P 178 L 52 # i-157 Hess, David CORD DATA CORD DATA<
C/ 113 SC 113.7.2 P 178 L 44 # i-11 Maguire, Valerie The Siemon Company Comment Type TR Comment Status R Cabling Recognize that up to 30m, 2-connector category 7A channels, meeting the additional specifications described in ISO/IEC TR 11801-9905, will support 25GBASE-T. SuggestedRemedy	Comment Type T Comment Status D Cabling Recognize Category 7A balanced cabling capacity to support 25GBASE-T, as it is already defined in 802.3, and as it is already used in Class FA cabling listed among 10GBASE-T supported cabling types. "1.4.124 Category 7A balanced cabling: Balanced 100 U cables and associated connecting hardware whose transmission characteristics are specified up to 1,000 MHz (i.e., cabling components meet the performance specified in ISO/IEC 11801:2002 Amendment 2). In addition to the requirements outlined in ISO/IEC 11801:2002 Amendment 2, IEEE 802.3
Refer to page 4 of http://www.ieee802.org/3/bq/public/nov15/maguire_3bq_01a_1115.pdf to see proposed changes with revision marks.	Clause 14, Clause 23, Clause 25, Clause 40, and Clause 55 specify additional requirements for this cabling when used with 10BASE-T 100BASE-T and 10GBASE-T "
Response Response Status U REJECT. No consensus to make this change to the draft Straw Poll: I support the commenter's proposed resolution (including both pages 3 & 4 of the referenced file) with editorial license to align with more recent parallel changes to the draft (e.g., 'star topology' language). Y:7 N:8 A:9 Straw Poll: I support rejecting this comment Y: 10 N: 7 A: 7	SuggestedRemedy Insert footnote reference "a" within Table 113-21- Cabling types and distances, to the end of column 1, row 2, "ISO/IEC Class I/ Class II" Place the note below Table 113-21- Cabling types and distances: "Category 7A balanced cabling, defined in clause 1.4.124, which is used in Class FA cabling, which is listed in Table 55-17 among the 10GBASE-T supported cabling types, supports 25GBASE-T for a link segment distance of 30 m; Category 7A balanced cabling link segment characteristics are verified according to this subclause (113.7) over the frequency range of 1 MHz to 1000 MHz " Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. PROPOSED REJECT Content of suggested remedy similar to proposals in rejected comment#36 against D2.3
C/ 113 SC 113.7.2 P 178 L 47 # i-62 Hajduczenia, Marek Bright House Network EZ Comment Type E Comment Status A EZ Incorrect table format for Table 113-21 SuggestedRemedy Please apply proper style (and fix offending line thickness) The same observation applies to Table 113-22. E Response Response Status C ACCEPT. A C	 Straw Poll: I support inserting the above revised suggested remedy:

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 113.7.2 2/7/2016 5:08:27 PM SORT ORDER: Clause, Subclause, page, line

C/ 113

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A: 8		C/ 113 RAN, ADEE	SC 113.	.1.2.3		179 Corpora	L 44 ition	# i-96	
113SC 113.7.2.1P 182L 6#chicketanz, DieterReutlingen University	i-135	Comment T	ype G		Comment Status	Α			EZ
omment Type TR Comment Status D	Cabling				equation number on is expected in S				
Formula 113-13 contains an error uggestedRemedy The last f^2 should multiply only the 7 of 10^-7 not (10^-7)xf^2			•		r or move the note ant.	e near the	e equation. Upda	te the expected d	ate if
oposed Response Response Status Z REJECT.			T IN PRIN			С			
This comment was WITHDRAWN by the commenter. See formula and table results given in diminico_3bq_01_0914.pdf consistent v	with equation	the reso		commer	r comment resolut nt i-100 was:	ion was	complete:		
113-13.		C/ 113	SC 113	.7.2.3	P	179	L 44	# i-63	
	i-111	Hajduczenia	a, Marek		Brigh	nt House	Network		
ssbach, Martin Nexans Canada Inc.		Comment T			Comment Status	Α			ΕZ
mment Type T Comment Status D	Cabling	misplac	ed Editoria	al note.					
Merge lines for 1000 <f<1250mhz 1250<f<1600mhz.="" and="" is="" it="" requir<="" same="" td="" the=""><td>ement.</td><td>SuggestedF</td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td></f<1250mhz>	ement.	SuggestedF				_			
uggestedRemedy Delete line 35. Change Formula to show a 8dB requirement from 1000MHz to	1600MHz	move th			Equation 113-27 to under said Equat	ion 113-		the note is locate	ed) or
(for 40GBASE-T)		Response			Response Status	С			
roposed Response Response Status Z REJECT.		ACCEPT IN PRINCIPLE. Note deleted by comment i-100 [Editor's note added after comment resolution was complete:							
This comment was WITHDRAWN by the commenter.			olution to c editor's no		nt i-100 was:				
The equation addresses both 25GBASE-T and 40GBASE-T. 25GBASE-T is n	not specified	C/ 113	SC 113	.7.2.3	P	179	L 45	# i-100	
>1250 MHz.		Zimmermar	, George		Aqua	antia, and	d CommS		
		<i>Comment T</i> Editor's		SO Reti	<i>Comment Status</i> urn Loss is no long		ant		EZ
		SuggestedF				-			
		Response ACCEP	ΥT.		Response Status	С			
YPE: TR/technical required ER/editorial required GR/general required T/technic OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STAT			U/unsatis	fied Z/	withdrawn	C/ 1' SC 1'	13 13.7.2.3	Page 30 o 2/7/2016	

SORT ORDER: Clause, Subclause, page, line

C/ 113 SC 113. Donahue, Curtis	.7.2.4	P 179	L 50	# <u>i-119</u>	C/ 113 Moffitt, Bry	SC 113.7	.4.3.1	P 187 CommScope	L 1	# i-144
Comment Type E	Comm	nent Status A		Cabling	Comment		Comr	ment Status D	, mc.	Cabling
acronym of ACRF	as "attenuatio	in some of the follo on to crosstalk ratio,					onsistent with	n other specificatior	equations	
defined as "attenu SuggestedRemedy	uation to crosst	alk ratio - far end".			Suggested alter to	equation for	mat			
Make the acronyr		d text consistant. Th on to crosstalk ratio		n would be to change	Proposed I REJEC	•	Respo	onse Status Z		
Response ACCEPT IN PRIN		nse Status C			This co	omment was	WITHDRAW	VN by the comment	er.	
Change the definit	ition in 1.5 to "a	attenuation to cross	talk ratio, far-end		Implen	ient suggest	ed remedy if	possible.		
C/ 113 SC 113. Schicketanz, Dieter	.7.4.2	P 186 Reutlingen Ui	L 21 niversty	# i-136	C/ 113 Moffitt, Bry	SC 113.7 an	.4.3.2	P 187 CommScope	L 24 , Inc.	# <u>i-145</u>
	mulas reference			Cabling measurements and set	Comment [®] Table f			<i>ment Status</i> D n other specificatior	equations	Cabling
	t is difficult to c	ompare both but th		aying how to measure d look at least similar.	Suggested alter to	Remedy equation for	mat			
	difficult to com	pare but at least ma	atch RL from 160	0 MHz onwards to the	Proposed I REJEC	•	Respo	onse Status Z		
link performance. Response	Respoi	nse Status C			This co	mment was	WITHDRAW	VN by the comment	er.	
	113-33 on pag	ge 186 line 37 from age 179 lines 35 to		MHz to 2000xS MHz to	Implen	ient suggest	ed remedy if	possible.		
		-g			C/ 113 Moffitt, Bry	SC 113.7 an	.4.3.3	P 187 CommScope	L 45 , Inc.	# i-147
					Comment identic	<i>Type</i> E al to Equatio		ment Status A		Cabling
					Suggested could c	Remedy lelete and ac	ld reference			
					P187 L	PT IN PRINC 45, delete "a Equation (1	, IPLE. as follows" ch	onse Status C nange Equation (11	3–34) to Equatic	ın (113-21).
	D/dispatched	A/accepted R/reje	u .	T/technical E/editorial G/g ISE STATUS: O/open W/w	5	U/unsatisfi	ed Z/withdra	C/ 1 wn SC 1	13 13.7.4.3.3	Page 31 of 48 2/7/2016 5:08:27 PN

C/ 113 SC 113.7.4.3 Moffitt, Bryan	4 <i>P</i> 188 CommScope,	L 9 Inc.	# li-146	C/ 113 SC 113.8 Fritsche, Matthias	P L HARTING Electronics	# i-129
Comment Type E No need to repeat this SuggestedRemedy Delete - already overdo	C C		Cabling	are not included	Comment Status R nnectors to ISO/IEC 11801, 2nd Ed.)	Cablin
Response ACCEPT IN PRINCIPL FEXT loss is defined in	Response Status C E. At the end of the first para Equation (113–22) ACRF is			SuggestedRemedy Class FA: link/channe using Category 7A ca (Amendment 1 and 2 should be added		
Delete Equation (113–3	4) and Equation (113–35).			Response	Response Status C	
C/ 113 SC 113.7.4.3 Moffitt, Bryan	5 <i>P</i> 189 CommScope,	L 6 Inc.	# i-148	REJECT. Commenter fails to pr	ovide sufficient information to include in the draft.	
Comment Type E identical to Equation 11	Comment Status A 3-26		Cabling			
SuggestedRemedy could delete and add re	ference					
Response ACCEPT IN PRINCIPL P189 L1, delete "as foll Delete Equation (113–3	ows" change Equation (113-	38) to Equatio	n (113-26).			
C/ 113 SC 113.7.4.3 Moffitt, Bryan	9 <i>P</i> 190 CommScope,	L 8 Inc.	# i-149			
Comment Type E identical to Equation 11	Comment Status A 3-27		Cabling			
SuggestedRemedy could delete and add re	ference					
Response ACCEPT IN PRINCIPL Equation (113-27). Delete Equation (113-4	Response Status C E. P190 L1, delete "as follow 0).	s" change Equ	uation (113–40) to			

C/ 113 SC 113.8

C/ 113 SC 113.8.1	P 192	L 8	# i-132	C/ 113	SC 113.8.2.	2	L	<mark>#</mark> i <u>-120</u>		
Schicketanz, Dieter	Reutlingen Un	iversty		Donahue,	Curtis					
passed later by saing it w implemented just old wor said it would be a technic	Comment Status R siding on the MDI connector youd not preclude other opti ding used. In the Berlin me al change. To my knowlege ge. I personally was very dis	ons. This wordineting this was defined the second s	ng was not iscussed but it was a motion is editorial	mode' Suggested	ge "Test- Mode s throughout the	Comment Status A " to "Test mode 5" to be con draft.	sistant with othe	EZ er instances of "test		
SuggestedRemedy	,,,,,,,,,,			Response		Response Status C				
Change the sentence to r connector is not the only	reflect the outcome of the n one possible.e.g:Start at lir " My english is not sufficien	nee 8: One optio	n is anAfter-7-	ACCE	SC 113A.2	P 213	L 31	# i-128		
	Response Status U			Donahue, Comment		Comment Status A		EMI test		
REJECT. No consensus to change the draft for this comment.					There seems to be some differences in the described width of the center opening (rounding issues?). On pg 213 ln 31 it says " 9.525 mm (0.375 in)", but pg 214 ln 3 says "9.53 mm (0.375 in)". And lastly, figure 113A-2 on pg 215 uses "9.53".					
Change P192 Line 8 to re "One option is using eigh the improved characterist mechanical interface to th Straw poll:	Commenter clarifies suggested remedy as: Change P192 Line 8 to read: "One option is using eight-pin connectors meeting the requirements of IEC 60603-7-51 with the improved characteristics and frequency extensions specified in IEC 60603-7-81 as the mechanical interface to the balanced cabling." Straw poll: I support the clarified suggested remedy for this comment i-132.			Response ACCE	pe the values to PT IN PRINCIP	be consistant, either all shou <i>Response Status</i> C LE. s to 3 significant figures (chai				
Y:9 N:12				Cl 113A Hajduczen	SC 113A.2 ia. Marek	P 216 Bright House	L 1 Network	# i-64		
A:6 Straw poll: I support rejecting this co Y:12 N: 8 A: 7 From the September 201	mment: 4 Task Force meeting, Otta	awa ON Capac	a meeting minutes	Comment incons Suggested	Type E sistent font size Remedy e apply proper s	Comment Status A		EZ		
(http://www.ieee802.org/3 The secretary & Editor no preclude additional MDI's	A Task Force meeting, Otta B/bq/public/sep14/unconfirm oted that they understood th s should they be offered in t he is requesting that the dr	ned_minutes_3b ne language of th he future.	pq_0914.pdf) he motion not to	AUUE	Γ1.					

C/ 113A SC 113A.2

C/ 113A SC 113A.3 P 216 L 44 # [i-65	C/ 28 SC 28.3.1 P 27 L 8 # [-1
Hajduczenia, Marek Bright House Network	Anslow, Peter Ciena Corporation
Comment Type E Comment Status A Editorial	Comment Type E Comment Status A EZ
There are a few editorial inconsistencies in text on page 216 and 217. Lettered list uses "-" and "" (em-dash) as separators without any consistency The use of "<->" symbol is not really clear - if a link is intended, spell it out using "link between Port 1 and Port 2) or something similar. There is, by definition, a non-breaking space between numeric value and unit, but there are multiple instances where space is missing, e.g., "A 30m, 4-pair 100 "	In the editing instruction "the first list" should be "in the first list", subclause numbers are not preceded by "subclause", and the location should be specified. SuggestedRemedy Change the editing instruction to: "Insert rows for 25Gig T and 40GigT in the first list in 28.3.1 below the row for 10GigT as follows:
SuggestedRemedy	Response Response Status C
Fix the issues	ACCEPT.
Response Response Status C ACCEPT IN PRINCIPLE.	Cl 28D SC 28D.8 P 211 L 29 # i-127 Donahue, Curtis
ON PAGES 216 and 217: Change em-dash to dash on: P216 L50 (item c), P217 L14 (item e), P217 L16 (item f), P217 L22 (item g)	Comment Type E Comment Status A EZ Change " 25GBASE_T" to " 25GBASE-T". EX EX
Change P217 L16: "cable used for the test" to "test cable"	SuggestedRemedy See comment.
Change <-> to "to" (to indicate link) Insert nonbreaking space between "30" and "m" on P217 L14	Response Response Status C ACCEPT.
C/ 113A SC 113A.4 P 219 L 1 # i-156	C/ 30 SC 30.3.2.1.2 P 29 L 41 # i-165
Moffitt, Bryan CommScope, Inc.	Law, David Hewlett Packard Enter
Comment Type T Comment Status A EMI test "reduced to the minimum output level" does not ensure relief from transients. Fast switching to and from zero still can create strong transients. Fast strong transients. SuggestedRemedy SuggestedRemedy SuggestedRemedy	Comment Type E Comment Status A EZ Text needs updated based on the approval of IEEE Std 802.3bw last year and the likelihood that IEEE P802.3bg will be the third amendment to IEEE Std 802.3-2015.
Change to something like: The signal generator output transitions should be controlled to minimize any disruptive frequency switching transients.	SuggestedRemedy Suggest that:
Response Response Status C ACCEPT IN PRINCIPLE. Change to "The signal generator output should be controlled between steps to minimize any frequency switching transients."	 [1] The text ' (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) ' be changed to read ' (as modified by IEEE Std 802.3bw-201X and IEEE Std 802.3by-201X)'. [2] The Editors note in the box on line 47 be deleted.
	Response Response Status C ACCEPT.

C/ 30 SC 30.3.2.1.2

Cl 30 SC 30.3.2.1.2 P 29 L 43 # i-2 Cl 30 SC 30.5.1.1.2 P 30 L 22 Anslow, Peter Ciena Corporation Ciena Corporation Hewlett Packard Enter Comment Type E Comment Status A EZ Comment Type E Comment Status A EZ IEEE Std 802.3bw has been approved by the SASB, so this should be "IEEE Std 802.3bw-2015" E Comment Type E Comment Status A UEEE Std 802.3bw has been approved by the SASB, so this should be "IEEE Std 802.3bw-2015" EEE Std 802.3bw-2015" Text needs updated based on the approval of IEEE Std 802.3bw last you likelihood that IEEE P802.3bq will be the third amendment to IEEE Std 802.3bw-2015" SuggestedRemedy Change all instances of "IEEE Std 802.3bw-2015" throughout the draft SuggestedRemedy Suggest that: Response Response Status C C (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3bw-201X	
IEEE Std 802.3bw has been approved by the SASB, so this should be "IEEE Std 802.3bw- Text needs updated based on the approval of IEEE Std 802.3bw last ye likelihood that IEEE P802.3bq will be the third amendment to IEEE Std SuggestedRemedy Change all instances of "IEEE Std 802.3bw-201x" to "IEEE Std 802.3bw-2015" throughout the draft SuggestedRemedy Response Desponse Status [1] The text ' (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.	
2015" likelihood that IEEE P802.3bq will be the third amendment to IEEE Std SuggestedRemedy SuggestedRemedy Change all instances of "IEEE Std 802.3bw-201x" to "IEEE Std 802.3bw-2015" throughout the draft Suggest that: Personne Despense Change all instances of "IEEE Std 802.3bw-201x" to "IEEE Std 802.3bw-2015" throughout Suggest that: (1) The text ' (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3bw-201	
Change all instances of "IEEE Std 802.3bw-201x" to "IEEE Std 802.3bw-2015" throughout the draft Corrense Corren	
the draft Concerso [1] The text ' (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.	
ACCEPT. (as modified by IEEE Std 802.3bw-201X and 201X)'.	
[2] The Editors note in the box on line 28 be deleted.	
aw David Hewlett Packard Enter	
Comment Type E Comment Status A EINCH	
Text needs updated based on the approval of IEEE Std 802.3bw last year and the	
likelihood that IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015.	
SuggestedRemedy	
Suggest that:	
[1] The text ' (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) ' be changed to read ' (as modified by IEEE Std 802.3bw-201X and IEEE Std 802.3by-	
201X)'. [2] The Editors note in the box on line 7 be deleted.	
[2] The Editors note in the box on line 7 be deleted.	
[2] The Editors note in the box on line 7 be deleted.	
[2] The Editors note in the box on line 7 be deleted. Response Response Status C ACCEPT.	
[2] The Editors note in the box on line 7 be deleted. Response Response Status ACCEPT. C/ 30 SC 30.5.1.1.19 P 31 L 11 # [i-169	
[2] The Editors note in the box on line 7 be deleted. Response Response Status ACCEPT. C/ 30 SC 30.5.1.1.19 P 31 L 11 Law, David Hewlett Packard Enter	
[2] The Editors note in the box on line 7 be deleted. Response Response Status ACCEPT. C/ 30 SC 30.5.1.1.19 P 31 L 11 L 11 # i-169 .aw, David Hewlett Packard Enter	
[2] The Editors note in the box on line 7 be deleted. Response Response Status ACCEPT. Cl 30 SC 30.5.1.1.19 P 31 L 11 L 11 # i-169 .aw, David Hewlett Packard Enter Comment Type T Comment Status Suggest for clarity it should be stated that SNR operating margin is measured at the slicer input for MultiGBASE-T PMAs.	
[2] The Editors note in the box on line 7 be deleted. Response Response Status ACCEPT. Cl 30 SC 30.5.1.1.19 P 31 L 11 L 11 # i-169 _aw, David Hewlett Packard Enter Comment Type T Comment Status Suggest for clarity it should be stated that SNR operating margin is measured at the slicer input for MultiGBASE-T PMAs. Editorial	
[2] The Editors note in the box on line 7 be deleted. Response Response Status Cl ACCEPT. Cl 30 SC 30.5.1.1.19 P 31 L 11 # i=169 Law, David Hewlett Packard Enter Comment Type T Comment Status A Editorial Suggest for clarity it should be stated that SNR operating margin is measured at the slicer input for MultiGBASE-T PMAs. SuggestedRemedy Suggest that the text ' for the <s>10GBASE-T Should be changed to read ' for the <s>10GBASE-T For the changed here and in subclause 30.5.1.1.20</s></s>	

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

C/ 30 SC 30.5.1.1.2 Page 35 of 48 2/7/2016 5:08:27 PM

C/ 30 SC 30.5.1.1.25 P 32 L 35 # i-170 Law, David Hewlett Packard Enter Hewlett Packard Enter Hewlett Packard Enter	C/ 30 SC 30.5.1.1.4 P 30 L # i-168 Law, David Hewlett Packard Enter Hewlett Packard Enter
Comment Type T Comment Status A Training There is no 'PHY event counter' defined in IEEE Std 802.3-2015 subclause 55.4.5.1 'State diagram variables' or subclause 113.4.5.4 'Counters'. Instead I think the reference should be to fr_tx_counter defined in IEEE Std 802.3-2015 subclause 55.4.5.4 'Counters' and subclause 113.4.5.4 'Counters'. In addition, while the size of the counter isn't explicitly stated in the its definition in IEEE Std 802.3-2015 subclause 55.4.5.4 'Counters' and subclause 113.4.5.4 'Counters'. In addition, while the size of the counter isn't explicitly stated in the its definition in IEEE Std 802.3-2015 subclause 55.4.5.4 or subclause 113.4.5.4, in both cases it is stated that it 'is reflected in MDIO register 1.147.10:6 specified in 45.2.1.79.2' which implies it is a five bit counter. Since the aLDFastRetrainCount attribute is defined as a counter with a maximum increment rate of 1000 counts per second, it will have to be considerable bigger than five bits to allow a reasonable polling speed through a management protocol without loss of	Comment TypeTRComment Status ABY alignmentBased on comment #217 on draft D2.0 of IEEE P802.3by http://www.ieee802.org/3/by/public/comments/8023by_D20_comment_final_responses_by_clause.pdf#Page=8 > being accepted, the IEEE P802.3by draft was changed to modify the 10Gb/s text in paragraph 8 rather than modifying the 40Gb/s and 100Gb/s text in paragraph 6. The text in this draft has however not been modified to reflect this.Regardless, on the assumption that IEEE P802.3by will be Amendment 2 and IEEE P802.3bg will be Amendment 3, the text modification provided in IEEE P802.3by to the subclause 30.5.1.1.4 aMediaAvailable behaviour will provide support for all 25 Gb/s PHYs including 25GBASE-T. And further, the existing IEEE Std 802.3-2015 subclause 30.5.1.1.4 aMediaAvailable behaviour already supporting all 40 Gb/s PHYs. Based on this no further modification of the subclause 30.5.1.1.4 aMediaAvailable behaviour description is required in IEEE P802.3bg and hence this subclause should be deleted from the IEEE P802.3bg Clause 30 changes.
information. Based on this aLDFastRetrainCount can be derived by the local management agent from fr_tx_counter, or from the LD fast retrain count register, but can't be mapped to them directly.	SuggestedRemedy Suggest that the subclause 30.5.1.1.4 aMediaAvailable should be deleted from the IEEE P802.3bq Clause 30 changes. Response Response Status
A similar set of issues exist for 30.5.1.1.25 aLPFastRetrainCount. SuggestedRemedy Suggest that:	ACCEPT IN PRINCIPLE. Implemented by i-20 Align with IEEE Std 802.3by, see comments i-20 and i-74, inserting Link Interruption and aligning with IEEE P802.3by draft by also changing paragraph 8.
 [1] In subclause 30.5.1.1.24 the text 'The indication reflects the state of the PHY event counter (see 55.4.5.1 and 113.4.5.4)' be changed to read 'This counter can be derived from fr_tx_counter (see 55.4.5.4 and 113.4.5.4).'. [2] In subclause 30.5.1.1.24 the text ' then this attribute maps to the LD fast retrain count register (see 45.2.1.79.2).;' be changed to read ' then this attribute can be derived from 	[Editor's note added after comment resolution was complete: the resolution to comment i-20 was: Change page 30 line 49 to match IEEE Std 802.3-2015 (should be 40Gb/s) Move editor's note after the sixth paragraph, and before the eight.
 the LD fast retrain count register (see 45.2.1.79.2).;'. [3] In subclause 30.5.1.1.25 the text 'The indication reflects the state of the PHY event counter (see 55.4.5.1 and 113.4.5.4)' be changed to read 'This counter can be derived from fr_rx_counter (see 55.4.5.4 and 113.4.5.4).'. [4] In subclause 30.5.1.1.25 the text ' then this attribute maps to the LP fast retrain count register (see 45.2.1.79.1).;' be changed to read ' then this attribute can be derived from the LP fast retrain count register (see 45.2.1.79.1).;' 	Add editing instruction to (also) change eighth paragraph, as inserted by IEEE Std 802.3by- 201x, to add Link Interruption, as described in comment i-74. The resolution of comment i-74 was: Insert change to eighth paragraph in proposed response, but retain sixth paragraph, making it consistent with IEEE Std 802.3-2015 (applies to 40Gb/s) and retaining the insert of Link Interruption.
ACCEPT.	Move editor's note after the sixth paragraph, and before the eight.]

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

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C/ 30 SC 30.5.1.1.4 (P 30 (L 43) (# i-74)	Cl 30 SC 30.5.1.1.4 P 30 L 49 # [-20	
Aarris, Arthur Cadence Design Syst	RAN, ADEE Intel Corporation	
Comment Type TR Comment Status A BY alignment	Comment Type T Comment Status A BY alig	ınmer
Make consistent with modifications in 802.3by	The text that appears here is not based on 802.3by. as of D3.0 of 802.3by the sixth	
SuggestedRemedy	paragraph of "BEHAVIOUR DEFINED AS" is not changed compared to the 802.3-201 revision. 802.3by only changes the eighth paragraph.	5
Delete editors note.		
Make the change to the eighth paragraph and not the sixth so it reads:	The original sixth paragraph refers to "For 40 Gb/s and 100 Gb/s", not to "For 25 Gb/s greater".	or
For 10 Gb/s and 25 Gb/s the enumerations map to value of the link_fault variable within the	It seems to make sense to reference 25 Gb/s in the sixth paragraph instead, since mo	ost of
Link Fault Signaling state diagram (Figure 46-11) as follows: the values OK and Link Interruption map to the enumeration "available", the value Local Fault maps to the	the eighth paragraph does not apply to 25 Gb/s, but that should be coordinated with 802.3by.	
enumeration "not available" and the value Remote Fault maps to the enumeration "remote fault".	SuggestedRemedy	
Response Response Status C	Unless 802.3by changes its draft to fit 802.3bq D3.0, make the addition of "and Link	
ACCEPT IN PRINCIPLE.	Interruption" in both the sixth and the eighth paragraphs. Change the editing instructio accordingly.	n
Insert change to eighth paragraph in proposed response, but retain sixth paragraph, making it consistent with IEEE Std 802.3-2015 (applies to 40Gb/s) and retaining the insert	Response Response Status C	
of Link Interruption.	ACCEPT IN PRINCIPLE.	
Move editor's note after the sixth paragraph, and before the eight.	Below provides detail to implement commenters suggested remedy:	
Implemented in comment i-20	Change page 30 line 49 to match IEEE Std 802.3-2015 (should be 40Gb/s)	
	Move editor's note after the sixth paragraph, and before the eight.	
	Add editing instruction to (also) change eighth paragraph, as inserted by IEEE Std 802 201x, to add Link Interruption, as described in comment i-74.	2.3by-
	[Editor's note added after comment resolution was complete: The resolution to comment i-74 was: Insert change to eighth paragraph in proposed response, but retain sixth paragraph, making it consistent with IEEE Std 802.3-2015 (applies to 40Gb/s) and retaining the ir of Link Interruption. Move editor's note after the sixth paragraph, and before the eight.	ısert

C/ 30 SC 30.5.1.1.4

C/ 30 Law, David	SC 30.6.1.1.5	P 33 Hewlett Pack	L 9 kard Enter	# <u>i-171</u>	<i>Cl</i> 45 Marris, A	SC 45.2.1.1		P 38 Cadence Des	L 3 sign Syst	# <u>i-13</u>
Comment Typ	ds updated bas I that IEEE P80	Comment Status A ed on the approval of IEEE 2.3bq will be the third ame	E Std 802.3bw las		Commen Edito Suggeste		Comment S nould reference	Status A Table 45-17b	.g. c)c.	BY alignment
' be cha 201X)'.	ext ' (as modif anged to read '.	ied by IEEE Std 802.3bw-2 (as modified by IEEE Std	d 802.3bw-201X a			change "45.2.1.1 e		.14b.1" on line	e 21	
[2] The Ed Response ACCEPT.		e box on line 13 be delete Response Status C	d.		Cl 45 Anslow, F	SC 45.2.1.1		P 38 Ciena Corpor	L 21 ration	# <u>i-4</u>
RAN, ADEE Comment Typ Text here "PMA/PM	e says "operate ID type". This is	P 37 Intel Corpora Comment Status R as a 40GBASE-T PMA typ s also the text used in 45.2 b.a 25GBASE-T ability.	be". All other bits		Suggeste	efore 45.2.1.14c. edRemedy nge " before 45. e		" before 45.2 " before 45.		BY alignment
SuggestedRe	emedy	"40GBASE-T PMA type" to	o "40GBASE-T P	MA/PMD type", twice,	<i>CI</i> 45 RAN, AD	SC 45.2.1.1 EE		P 38 Intel Corporat	L 21 tion	# i-22
In 45.2.1. <i>Response</i> REJECT. The BASI table 45-7 in 45.2.10	14b.a, change E-T PHYs, like 7 and all section 0.9 is inconsiste	"25GBASE-T PMA type" to Response Status C 10GBASE-T, only have PI to other than 45.2.10 for 1 ent (and should be fixed by vith existing 802.3 usage.	o "25GBASE-T P MA, they have no 0GBASE-T only I	MA/PMD type", twice.	Suggeste	Bby does not have adRemedy nge "before 45.2." e		This reference pre 45.2.1.14b		BY alignment .2.1.14b.1.

C/ 45 SC 45.2.1.14b.a

	P 36	L 17	# i-12	C/ 45	SC 45.2.1.6		P 36	L 18	# i-3	
arris, Arthur	Cadence Des	sign Syst		Anslow, Pe	eter		Ciena Corpo	ration		
omment Type TR	Comment Status A		BY alignment	Comment	Type E	Comment	t Status R		BY align	ımer
	25GBASE-T PMA is type sele Std 802.3bn-201X, or IEEE St future use"			use"		ations for bits	1.7.5:0 are labe	elled "reserved", n	ot "reserved for fut	ure
uggestedRemedy				Suggested		("			
802,3by has:					ge "reserved for		,	nstances)		
"111011 = reserved"				Response		Response	Status C			
Suggest adding editoria "111011 = 25GBASE-T	al instruction to change this to	.0:		REJE(802.3t	CT. ow draft 3.3 sho	ws these as 'r	reserved for futu	ire use'		
esponse	Response Status C								i-12 - in accordance	
ACCEPT IN PRINCIPL	•							302.3-2015, suppo as per comment i	ort the implementat	ion
(802.3bn has the 1101	xx entry, but will probably foll				ow are reversed					
Commenter's suggeste allocation of 110111 to	ed remedy would change the	802.3 Chief Edito	r's proposed	C/ 45	SC 45.2.1.6	າ າ	P 38	L 31	# i-23	
	236BA3E-1 FIMA.			RAN, ADE		2	Intel Corpora	•••	# 1-23	_
	ain exist allocation of 110111	, and make edits	consistent with	Comment		Common	t Status A			E
802.3bw and 802.3by,	by:				51			BASE T This o	ccurs multiple times	
1. Change editor's note	e to delete reference to 802.3	3bn, but still reflec	t 802.3bw and 802.3by		his point and for					2
2 Retain existing rows	s "110111 = 25GBASE-T PMA	Δ" and "110110 -	reserved for future	Suggested	Remedy					
use"				Correc	ct font sizes.					
2 Bolow that insort or	ew row "11010x = reserved fo	or futuro uco"		Response		Response	Status C			
5. Delow that, insert he	$\frac{1}{1000}$ $\frac{1}{1000}$ = leselved to	i luture use		ACCE	PT.					
1 Delevertheat wavel	edit changing row "1101xx"		row changing	C/ 45			P 38	1.07	# . 404	
	1 (mithe environmentate medealine			U/43	SC 45.2.1.6	2.1	P 38 Aquantia, an	L 37 d CommS	# i-101	—
	" (with appropriate underline				n George					
"110xxx" to "1100xx" [Editor's note - added f	following comment resolution	- general comme		Zimmerma	an, George	0	•			_
"110xxx" to "1100xx" [Editor's note - added f and 802.3-2015, suppo	following comment resolution ort changing these to simply "	- general comme		Zimmerma Comment	Туре Е		t Status A		aut over change	Е
"110xxx" to "1100xx" [Editor's note - added f	following comment resolution ort changing these to simply "	- general comme		Zimmerma Comment	<i>Type</i> E ence to 10GBAS		t Status A		nout even change	E
"110xxx" to "1100xx" [Editor's note - added f and 802.3-2015, suppo	following comment resolution ort changing these to simply "	- general comme		Zimmerma <i>Comment</i> Refere marks	<i>Type</i> E ence to 10GBAS		t Status A		nout even change	E
"110xxx" to "1100xx" [Editor's note - added f and 802.3-2015, suppo	following comment resolution ort changing these to simply "	- general comme		Zimmerma Comment Refere marks Suggested	Type E ence to 10GBAS	E-T clause 5	t Status A 5 has dropped o	out of the text with	-	E
"110xxx" to "1100xx" [Editor's note - added f and 802.3-2015, suppo	following comment resolution ort changing these to simply "	- general comme		Zimmerma Comment Refere marks Suggested Chang 113.4. startup has ba	Type E ence to 10GBAS dRemedy ge "When read a 2.5 has been co p protocol define een completed,"	E-T clause 5 as a one, bit 1 ompleted" to: ' ad in 55.4.2.5 and show app	t Status A 5 has dropped o .129.0 indicates "When read as (for 10GBASE-	but of the text with s that the startup a one, bit 1.129.0 T) or 113.4.2.5 (fo	nout even change protocol defined in 0 indicates that the or 25G/45GBASE-T GBASE-T) or 113.4.	
"110xxx" to "1100xx" [Editor's note - added f and 802.3-2015, suppo	following comment resolution ort changing these to simply "	- general comme		Zimmerma Comment Refere marks Suggested Chang 113.4. startup has be (for 25	Type E ence to 10GBAS dRemedy ge "When read a 2.5 has been co protocol define een completed," 5G/45GBASE-T)	E-T clause 5 as a one, bit 1 ompleted" to: ' and in 55.4.2.5 and show ap ".	t Status A 5 has dropped o .129.0 indicates "When read as (for 10GBASE- propriate under	but of the text with s that the startup a one, bit 1.129.0 T) or 113.4.2.5 (fo	protocol defined in) indicates that the pr 25G/45GBASE-T	Г)
"110xxx" to "1100xx" [Editor's note - added f and 802.3-2015, suppo	following comment resolution ort changing these to simply "	- general comme		Zimmerma Comment Refere marks Suggested Chang 113.4. startup has ba	Type E ence to 10GBAS dRemedy ge "When read a 2.5 has been co p protocol define een completed," 5G/45GBASE-T)	E-T clause 5 as a one, bit 1 ompleted" to: ' and in 55.4.2.5 and show ap ".	t Status A 5 has dropped o .129.0 indicates "When read as (for 10GBASE-	but of the text with s that the startup a one, bit 1.129.0 T) or 113.4.2.5 (fo	protocol defined in) indicates that the pr 25G/45GBASE-T	Г)

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C/ 45 SC 45.2.1.64.2 P 39 L 39 # 1-25	C/ 45 SC 45.2.1.65.1 P 40 L 1 # i-5
RAN, ADEE Intel Corporation	Anslow, Peter Ciena Corporation
Comment Type T Comment Status A Ma	intenance Comment Type E Comment Status A EZ
Since this bit is read/write, I assume writing it should control the short reach mode way the text is written suggests that it only indicates the short reach mode.	The In "Change text of clauses 45.2.1.65.1 and 45.2.1.65.2", 45.2.1.65.1 and 45.2.1.65.2 are not clauses.
Is there something else that can put the PHY in/out of short reach mode?	SuggestedRemedy Delete the word "clauses"
SuggestedRemedy Change "If bit 1.131.0 is a one, the PHY is in short reach mode" to "Setting this bit puts the PHY in short reach mode". Change similarly for a value of zero.	to a one Response Response Status C
If something else within the standard can cause setting short reach mode on/off, p indicate that.	ease Cl 45 SC 45.2.1.78 P 41 L 51 # 1-26 RAN, ADEE Intel Corporation
Response Response Status C ACCEPT IN PRINCIPLE. Existing 10GBASE-T systems might be affected by the change suggested. Insert at the end of the paragraph: "For 25GBASE-T and 40GBASE-T, setting this bit to a one puts the PHY in short r mode, and setting this bit to a zero puts the PHY into normal (non-short reach) mode.	de. Change "1.25ns" to "1.25 ns".
C/ 45 SC 45.2.1.64.2 P 39 L 40 # i-24 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	Change "2.5ns" to "2.5 ns". Add period after the last word.
Comment Type TR Comment Status A "Normal mode" is defined in clause 55 as the mode of operation that enables data as opposed to training mode. This is not the opposite of "short reach mode". There setting bit 1.131.0 to zero does not necessarily make the PHY operate in normal m	fore,
only disables short reach mode.	Law, David Hewlett Packard Enter
SuggestedRemedy Change "If bit 1.131.0 is a zero the PHY is operating in normal mode" to "If bit 1.13 zero, the PHY is not in short reach mode".	Comment Type E Comment Status A EZ 11.0 is a The fr_rx_counter is defined in subclause 55.4.5.4 'Counters' of IEEE Std 802.3-2015.
Response Response Status C ACCEPT.	SuggestedRemedy Suggest that the text ' fr_rx_counter as defined in 55.4.5.1 for 10GBASE-T' should be changed to read ' fr_rx_counter as defined in 55.4.5.4 for 10GBASE-T'.
	Response Response Status C

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ **45** SC **45.2.1.79.1** Page 40 of 48 2/7/2016 5:08:27 PM

C/ 45 SC 45.2.1.79.2 P 42 Law, David Hewlett Packat	<u>L 29</u> # <u>i-173</u> rd Enter	C/ 45 SC 45.2.3.6 Marris, Arthur	P 43 Cadence Desi	L 40 gn Syst	# i-14
Comment Type E Comment Status A	Maintenance	Comment Type T	Comment Status A	the theorem	BY alignment
The fr_tx_counter is defined in subclause 55.4.5.4 'C	Junters of IEEE Std 802.3-2015.	"1 1 0 = reserved"	nst 802.3by draft 3.0 to am	ke the row:	
SuggestedRemedy Suggest that the text ' fr_tx_counter as defined in 5 changed to read ' fr_tx_counter as defined in 55.4.5 Response Response Status C ACCEPT.		SuggestedRemedy For the "0 1 1 0" entry re instruction indicate a cha "1 1 0 = reserved" to: "0 1 1 0 = Select 40GBAS		the last three b	its and make the editing
CI 45 SC 45.2.3 P 42 Anslow, Peter Ciena Corpora Comment Type E Comment Status A	L 44 # [i-7] tion <i>EZ</i>		Response Status C		
Comment Type E Comment Status A Subclause 45.2.3.9a has been added for EEE contro there is no change to Table 45-119 for this new regis	I and capability 2 (Register 3.21), but	<i>Cl</i> 45 SC 45.2.3.7 Marris, Arthur	P 44 Cadence Desi	L 23 gn Syst	# i-15
Add a row for register 3.21 and show appropriate cha Response Response Status C ACCEPT.	L4 # [i-104 CommS <i>Management</i>	and mark it as reserved. SuggestedRemedy Make editing instruction s "3.8.6 Reserved Value a to: "3.8.6 40GBASE-T capat	lways 0"	ert a row into Ta	adie 45-124 for 3.8.6
Need to specify how the speed of the loopback is sel SuggestedRemedy Insert: "The speed of the loopback is selected by the in 45.2.3.1." after "return it on the receive path." (see	PCS control 1 (Register 3.0) defined	ACCEPT. C/ 45 SC 45.2.3.9 Anslow, Peter	P 45 Ciena Corpora	L 1 ation	# [i-6
is required) Response Response Status C ACCEPT.		"(unchanged bits not sho SuggestedRemedy Change "the name of Tal "(unchanged bits not sho	Comment Status A ble 45-125" should be "C wn)" should be "(unchange ble 45-125" to "the title of wn)" to "(unchanged rows r Response Status C	d rows not show f Table 45-125	vn)".

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

C/ **45** SC **45.2.3.9** Page 41 of 48 2/7/2016 5:08:27 PM

C/ 45 SC 45.2.7 Zimmerman, George	P 49 Aquantia, and	L 49 CommS	# i-102		<i>CI</i> 45 RAN, ADE	SC 45.2	2.7.10.5	P 51 Intel Corpor	L 15 ation	# i-27
Comment Type E Table 45-200, reserved	Comment Status A row needs to be adjusted			EZ	Comment I unde			mment Status A	ing the periodic trai	<i>Editorial</i> ning sequence
SuggestedRemedy add "and adjust the rese	erved row" to the editing inst	ruction.			and m rewriti	arked as sing history t	uch so that t o delete the	he old functionality is past, and the new te	s documented. But	
Response ACCEPT.	Response Status C				espec The m equipr practic would the va Makin isn't re with th The cl may h Suggestec In 45.2 additic "The p unsup setting In Tab "NOTI may ig In 45.2 followi "The p ignore	ially once the leaning of the ment may size). The arm immediate lue receive g the speci- baserved and the description ave it imple <i>IRemedy</i> 2.7.10.5, Ke on, insert a ported by signification of the 45-207, Ethe periodic trais a value of the 45-208, Ethe periodic trais a value of the 45-208, Ethe periodic trais a value of the the the the the the the the the the the the the the the the	he strikeout bits 7.32.2 a till have the hended text by make son d in auto-ne fic value 1 "h d is defined, on "value al lause 55 sh earented (the eep the origines paragra- ning sequer ome implen one. It is rec keep the origines ph: ning sequer one in this b keep the origines ph: ning sequer one in this b	text is gone. and 7.33.9 should not m implemented (thou includes things like " ne existing implement gotiation. reserved" or "not defi- is very unusual. It is ways 0". ould also keep the or- ough they may never nal text, and insert a aph after the original ice request functionan- ter the original description of b sequence request functionan- this bit. It is recomm- nal text, and replace	be changed, since igh they might never bit 7.33.9 should al- itations non-compliant ined" (in Table 45-2 also unusual to have iginal behavior since be requested to us t the beginning "For- text: lity is deprecated a partner may ignore and is set this bit to zero it 7.32.2, and apper- inctionality is deprecated. I ead as zero." it 7.33.9, and apper- nctionality is deprecated. I	existing 10GBASE-T er be set to 1 in ways read zero" which ant, if the bit reads as 208) while the value 0 ve a R/W bit (7.32.2) ce existing devices se it). T 10GBASE-T, ". In and may be a request caused by o." and a paragraph: cated. Link partners t this bit to zero." thined) with the mplementations may and a paragraph: cated.
					In Cla (inform	use 55, do native inste	not delete th ad of norma	ne second paragraph tive) and change the	of 55.3.4. Instead, text as follows:	change it to a note
							•	ation a device may re n. This functionality i		•
•	d ER/editorial required GR/			itorial G/ge	eneral			CI .	45	Page 42 of 48

request if it is received, and it is recommended not to send it. A device that receives this request and does not ignore it generates a periodically repeating pattern, by reinitializing its scrambler state after every 16384 symbol periods to the 33-bit value generated by combining 0x39A422 for the 22 MSBs and SB10-SB0 from Table 55-15 generated by the local device for the 11 LSBs, as shown in Figure 55-13."

Also, delete the change instructions to Figure 55-13, subclause 55.3.5.3, and bit U20 in Table 55-15.

Table 55-15.			
Response	Response Status C		
ACCEPT.			
C/ 45 SC 45.2.7.1	11.2 P 53	<mark>/_1</mark>	(# <mark>i-30</mark>)
RAN, ADEE	Intel Corporat	ion	
Comment Type E	Comment Status A		Maintenance
, Jan	conditional sentences, the logi fault)". The second "if" is cor		· · · · · · · · · · · · · · · · · · ·
Also, what if either "A	N complete" is 0 or "fault" is 1	?	
SuggestedRemedy			
Change "and if" to "a	nd" twice in this subclause.		
Append the following has been selected".	text: "In all other cases, neithe	er SLAVE mode	nor MASTER mode
Response	Response Status C		
ACCEPT. Reviewers are recom	mended to consider whether the	nis impacts 10Gl	BASE-T systems
C/ 45 SC 45.2.7.1	11.7c P 53	<mark>L 35</mark>	<mark>#</mark> i-31
RAN, ADEE	Intel Corporat	ion	
Comment Type E	Comment Status A		Editorial
	bit "is used to indicate" but whe 2.7.11.7a and 45.2.7.11.7b, bit		st indicates. Also, in
Comment also applie	es to 45.2.7.11.8 and 45.2.7.11	<mark>.9.</mark>	
SuggestedRemedy			

Change "is used to indicate" to "indicates", in 45.2.7.11.7c, 45.2.7.11.8, and 45.2.7.11.9.

Response Response Status C

ACCEPT.

es this						
ializing its	C/ 45 SC	<mark>45.2.7.13</mark>	<mark>P 54</mark>	<mark>/ 9</mark>	<mark>#</mark> <mark>i-33</mark>	
/	RAN, ADEE		Intel Corpora	ation		
, d by the	,	_	•			
,	Comment Type	T Co.	mment Status A			ΕZ
			not match the origina			
J20 in			xt includes "or sent as		BASE-T and 1000E	SASE-
	T technolog	y message code :	as defined in 28C.11".			
			ted makes the text qu			
			how it paps to auto-n "Next Page" message			
1			ages; the second sen			HOE-
<u>/</u>			g done during training			
		deventioning being	g done danng training	•		
aintenance	It is also und	clear whether the	new bits are exchange	ed only during tra	ining; if a device	
) and	supports 10	GBASE-T or lowe	er speeds with clause	28 AN, aren't the	new bits included	in
e.	the U10 to L	J0 bits as defined	in 28C.12?			
			ver to the above so the	e proposed reme	dy may need some	<mark>e</mark>
	corrections.					
	SuggestedReme	edy				
	From the ori	ginal content of F	2802.3-2015 as the ba	aseline, change to	the following text:	•
mode		-		-	-	
			vertisement for severa			
			advertisement in the			
			de as defined in 28C.			
			sage code as defined			
ems			dvertisement in the un essage code as define			
			anged in the InfoField			MOL-
	113.4.2.5.10		anged in the infortion	adding training a		
		-				
Editorial	The assignn	nent of bits in the	EEE advertisement re	egister and the co	orrespondence with	<mark>h the</mark>
<mark>lso, in</mark>	bits in the N	ext Page messag	es or in the training Ir	nfoField are show	n in Table 45-210.) —
	Response	Res	ponse Status C			

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line C/ 45 SC 45.2.7.13 Page 43 of 48 2/7/2016 5:08:27 PM

	SC 45 3 7 4 4	DEE		#			DEC	1.42	# : 0	
C/ 45 RAN, ADEE	SC 45.2.7.14	P 55 Intel Corporation	<mark>لا 2</mark> on	(# <mark>i-34)</mark>	<mark>C/ 45 Anslow, Pe</mark>	SC 45.5.3.9 eter	(<mark>P 59</mark>) Ciena Corpo	L 42 ration	<mark>#</mark> <u>i-8</u>	
Comment T	vpe TR	Comment Status A		Management	Comment	Туре Е	Comment Status A			EZ
The "sh	all" in the next s	tatement does not hold for th	<mark>e new PHYs.</mark>	-	<mark>"add" i</mark>	s not a valid editi	ing instruction			
SuggestedF	Remedy				Suggested	Remedy				
	e sentence				Chang	e "and add rows'	to "and insert rows"			
		, members of the MultiGBAS nk training. For these PHYs,			Response		Response Status C			
after lin	k is established.	•			ACCE	PT.				
To be a	fter the first sent	ence, and prepend "For all o	ther PHYs" to th	ne next sentence.						
Response		Response Status C								
Insert "E	T IN PRINCIPLE Except for" after the AN" to rea	er the second sentence, and	insert "For all o	ther PHYs, before						
register set exch LP abiliti process EEE ad and the 45–211	shall have no ef hange the EEE a ty register is upd has been comp vertisement regi correspondence	LP ability register are read- fect. Except for 10GBASE-T ability in the InfoField during I lated after link is established. leted, this register shall refle ster. The assignment of bits a with the bits in the Next Pag	, members of th ink training. For For all other P ct the contents in the EEE link ge messages ar	e MultiGBASE-T PHY these PHYs, the EEE HYs, when the AN of the link partner's partner ability register e shown in Table						
Cl 45 Donahue, C	SC 45.2.7.14a Curtis) (<u>P 55</u>)	<mark>L 47</mark>	(# (<mark>i-122</mark>)						
Comment T "RW" is	ype E used in Table 4	Comment Status A 5-211a.		EZ						
	econd and third	row of the table change "RW o "R/W = Read/Write, RO =		change the footnote at						
Response		Response Status C								
ACCEP	<mark>۲۲.</mark>									

C/ 45 SC 45.5.3.9 Page 44 of 48 2/7/2016 5:08:27 PM

CI 55 SC 55.3.4	P 61	L 8	# i-32	1				
Hidaka, Yasuo	Fujitsu Labo	ratories of		C/ 78	SC 78.1	P 65		# i-98
Comment Type T	Comment Status A		Editorial	Zimmerm	an, George	Aquan	ntia, and CommS	
	ing pattern is deleted from the and a note of the change from				ig instruction s	Comment Status hould reference that this		BY alignment HOUT the modifications
SuggestedRemedy				in IEE	E Std 802.3by	y-201x.		
Add a note of the change.	ge from prior revisions of the	e standard and a	n explanation for the	00	<i>dRemedy</i> ge editing instr	ruction so it reads, "Chan	nge text in clause 78.1.	3.3.1 (shown without
Response	Response Status C			modi	ications of IEE	E Std 802.3by-201x) as	follows:"	·
ACCEPT IN PRINCIPL	.E.			Response	e	Response Status	С	
the resolution to comm		·			EPT IN PRINC text with IEEE	IPLE. Std 802.3by-201x (see c	comment i-180)	
In 45.2.7.10.5, Keep th addition, insert a new p "The periodic training s unsupported by some i	e original text, and insert at paragraph after the original to equence request functionali mplementations. The link part t is recommended to always	ext: ity is deprecated artner may ignore	and may be a request caused by	the re [1] Th [2] Th modif	esolution to cor ne editor's note ne editing instru ied IEEE Std 8	after comment resolution mment i-180 was: on line 6/7 be deleted. uction should be updated 302.3by-201X) as follows P802.3by draft D3.0 the t	to read 'Change text i ::'.	,
"NOTEthe periodic tra may ignore a value of c In 45.2.7.11.7, keep the following paragraph: "The periodic training s	the original description of bit aining sequence request fun one in this bit. It is recomme e original text, and replace the requence request functionalion this bit or have it always re	ctionality is depr nded to always s he new text (und ty is deprecated	ecated. Link partners set this bit to zero." erlined) with the	great [4] Ba Gb/s. [5] Ba great	er' be chang ased on IEEE F ' be changed to ased on IEEE F	Pol2.3by drait D3.0 the t ged to read ' an operatir P802.3by draft D3.0 the t o read ' with an operati P802.3by draft D3.0 the t ged to read " with an op	ng speed of 25 Gb/s or text ' with an operatin ing speed of 10 Gb/s o text ' with an operatin	r greater' on line 12. Ig speed less than 40 r below on line 15. Ig speed of 40 Gb/s or
In Table 45-208, keep t "NOTEthe periodic tra	the original description of bit aining sequence request fun gnore a value of one in this	t 7.33.9, and app ctionality is depr	ecated.					
	elete the second paragraph on normative) and change the		d, change it to a note					
training sequence initia request if it is received, request and does not ig scrambler state after ev combining 0x39A422 for	Vegotiation a device may red lization. This functionality is , and it is recommended not gnore it generates a periodic very 16384 symbol periods t or the 22 MSBs and SB10-S LSBs, as shown in Figure 55	deprecated; dev to send it. A dev cally repeating pa to the 33-bit valu B0 from Table 5	rices may ignore this rice that receives this attern, by reinitializing its e generated by					
Also, delete the change Table 55-15.	e instructions to Figure 55-1	3, subclause 55.	3.5.3, and bit U20 in					
•	spatched A/accepted R/reje	• •	d T/technical E/editorial G/g NSE STATUS: O/open W/w	5	d U/unsatisfie	ed Z/withdrawn	C/ 78 SC 78.1	Page 45 of 48 2/7/2016 5:08:27 I

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	SC 78.1.3.3.1	P 65	L 41	# <u>i-180</u>	CI 78	SC :	78.2	P 65	L	# <u>i-182</u>
_aw, David		Hewlett Packa	ard Enter		Law, David			Hewlett Packar	d Enter	
Comment T	ype E (Comment Status A		BY alignment	Comment T	уре	Е	Comment Status A		BY alignmer
		on the likelihood that IEE 02.3-2015 and that IEEE						ed updated based on the likelih IEEE Std 802.3-2015 and that		
SuggestedF	Remedy				SuggestedF	Remed	ly			
[2] The modified	d IEEE Std 802.3by	should be updated to read /-201X) as follows:'.	-	·	Table 7	8-2 (as	s modifie	g instruction be changed to rea d by IEEE Std 802.3by-201X) a the entry "40GBASE-CR4" for	fter the entry	y "25GBASE-CR-S" for
		by draft D3.0 the text ' a ead ' an operating spee			Response			Response Status C		
[4] Base Gb/s.' b	ed on IEEE P802.3 be changed to read	by draft D3.0 the text ' v ' with an operating spee by draft D3.0 the text ' v	with an operating ed of 10 Gb/s or	speed less than 40 below on line 15.		s note		ter comment resolution: delete 'as follows:' to be consistent wi		
greater 16 and Response	line 21.	ead " with an operating	speed of 25 Gb/	s or greater' on line	C/ 80 RAN, ADEE		80.1.3	P 69 Intel Corporatio	L 36 n	# [i-35
ACCEP		Response Status C			Comment T	vpe	Е	Comment Status A		E
ACCEP								ises serif font type.		
C/ 78 ₋aw, David	SC 78.1.4	P 65 Hewlett Packa	L 24 ard Enter	# i-181	SuggestedF		ly o sans se			
they me	t that the editing instantion that this table	Comment Status A struction be placed after t has been modified by IE try with the 40GBASE-T e	EE P802.3by, a	nd places 25GBASE-T	Response ACCEP			Response Status C		
SuggestedF					C/ 80		80.1.4	P 69	L 50	# i-36
00		struction be placed on line	e 28 after the sul	oclause 78.1.4 'PHY	RAN, ADEE			Intel Corporatio	n	
Table 7	8-1 (as modified by	EEE' and be changed to IEEE Std 802.3by-201X) entry "40GBASE-ER4" fo) after the entry "			hitting 4		Comment Status A E-T" used as part of the definition hitting that is required.	on of 40GBA	E. SE-T is inadequate.
Response	R	Response Status C			SuggestedF	Remed	ly			
					Change	e "for tr	ransmittir	ng 40GBASE-T over" to "for dat	a communic	ation at 40 Gb/s over".
ACCEP	s note added after o	comment resolution: delet			Response	ΥТ.		Response Status C		

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

C/ 80 SC 80.1.4

C/ 80 SC 80.1.4 Donahue, Curtis	P70	L 4	# <u>i-123</u>	C/ FM Law, David	SC FM	P 1 Hewlett Pac	L 1 kard Enter	# <u>i-159</u>
SuggestedRemedy	Comment Status A ad 100 Gb/s PHYs" to "40 Gb/s a space in "40Gb/s"). Response Status C	nd 100 Gb/s Pł		IEEE P P802.3 showin second	on IEEE P80 802.3bp ente oq showing a g approval in amendment ter IEEE Std	Comment Status A 2.3by entering sponsor ballot i pring sponsor ballot in Decemb pproval in June 2016, and the August 2016, it seems likely t and IEEE P802.3bq will be th 802.3bw(TM)-2015 and IEEE	per 2015, the pub published timeli hat that IEEE P8 e third amendme	blished timeline for IEEE ine for IEEE P802.3bp 302.3by will be the ent to IEEE Std 802.3-
C/ A SC A Maguire, Valerie	P 209 The Siemon C	L 1 Company	# [i-9	Std 802		endment of IEEE Std 802.3(T as amended by IEEE Std 802		
cabling to support 2	Comment Status A ical Report ISO/IEC TR 11801-9 5GBASE-T application", will con 25GBASE-T with existing structur	tain useful infor	mation related to the	Response	ΥТ.	Response Status C		
	iography and add: ISO/IEC TR 1 ling to support 25GBASE-T appli		ft), Guidelines for the					
Response ACCEPT IN PRINC Insert Annex A and	Response Status C IPLE. add TR-9905 to bibliography							
Add the following E	ditor's note:							
that a draft of TR-9	removed prior to publication) - TI 905 from ISO/IEC SC25 WG3 wi .3bq and may be applicable to th	ll be available b	efore close of sponsor					

C/ FM SC FM

C/ FM	SC FM	P 11	L 18	# i <u>-160</u>
Law, Davie	d	Hewlett Pa	ackard Enter	
Comment	Туре Е	Comment Status A		E
IEEE	P802.3by will be dment to IEEE S	ased on the approval of IE the second amendment a td 802.3-2015, and the us	and IEEE P802.3bq	will be the third
Suggested	dRemedy			
Sugge	est that:			
[1] Th 201x':	0	hould be inserted prior to	the existing text 'IEE	EE Std 802.3bq(TM)-
IEEE	Std 802.3bw-20	15		
Claus	Amendment 1This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 96. This amendment adds 100 Mb/s Physical Layer (PHY) specifications and management parameters for operation on a single balanced twisted-pair copper cable.			
IEEE	Std 802.3by-201	x		
Claus Annex	e 105 through C (110C. This am	mendment includes chang lause 112, Annex 109A, A endment adds MAC paran nsfer of IEEE 802.3 forma	nnex 109B, Annex 1 neters, Physical Lay	110A, Annex 110B, and ers, and management

[2] The text 'IEEE Std 802.3bq(TM)-201x' should be changed to read 'IEEE Std 802.3bq-201x'.

[3] The text 'This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 113 ... ' be changed to read 'Amendment 3--This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 113 ...'.

Response

Response Status C

ACCEPT.

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